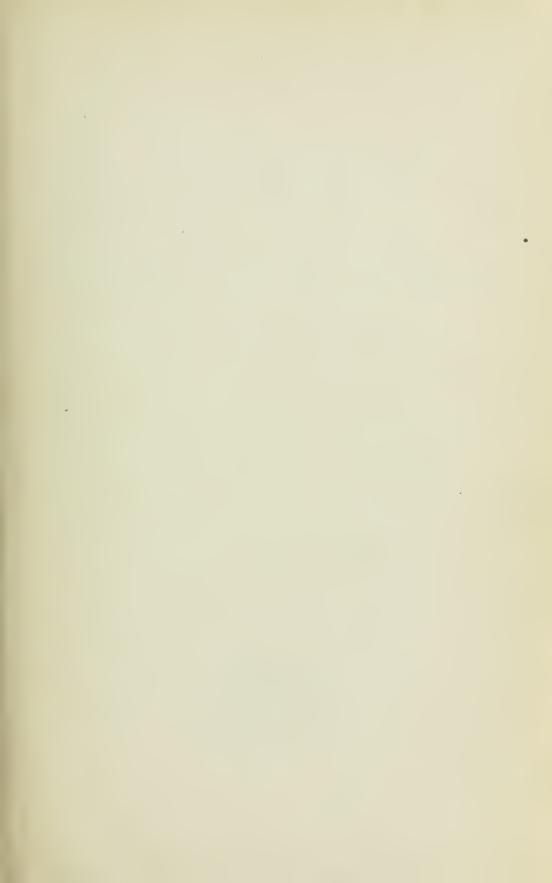


Digitized by the Internet Archive in 2010









60, Co. S

# SESSIONAL PAPERS

VOLUME 12

# THIRD SESSION OF THE ELEVENTH PARLIAMENT

OF THE

# DOMINION OF CANADA

SESSION 1911



123-208



See also Numerical List, Page 7.

#### ALPHABETICAL INDEX

TO THE

# SESSIONAL PAPERS

OF THE

# PARLIAMENT OF CANADA

### THIRD SESSION, ELEVENTH PARLIAMENT, 1911.

A		В
Accidents on I.C.R	, 83a	Baby Farm, correspondence relative to 126
Acton Vale, Post Office at	88	Banks Chartered
Accidents on railways	145	Bankers' Association, Rules, &c., of 153
Admiralty Court in Nova Scotia	107	Banks, Unpaid Balances in 7
Adulteration of Food	14	Barnhill, Major J. L 185
Advalorem Duty	75	Barracks Site at Toronto 126
Agriculture, Annual Report	15	Battlefields Commission:—
Agriculture and other products	173	36 3 721
Alaskan Boundary Commission, Report	190	Report from
of	139	Report made to Government 586
lands, &c	1000	Appointment of Members of 58c
Alberta and Saskatchewan, sale of	1000	Medals struck by
lands in	133	Beauharnois Canal, Lighting of 98a
Alberta and Saskatchewan Fisheries	100	Beauharnois Canal, Sums paid by Con-
Commission	211	cessionaries
Aliens in the service of the Government	198	Bear River, N.S., Rifle Range at 183
Annuities, Government	47	Bituminous Coal, imported205
Astronomer, Chief, Report of	25a	Boot Last Blocks
Atlantic, Quebec and Western Rail-	2011	Bonds and Securities
way	1985	British Canadian Loin and Investment
Athol Post Office, mail route	105	
Atlantic Fisheries, Hague Award		Bryce, Dr. P. H., Report of 25c
	200	Burk's Falls, Wharf 't 111
Atlantic Service, Fast		Butter and Eggs, Imported, and Prices
Auditor General, Annual Report	1	of
Australian Commonwealth, Reciprocal	100	
Trade with	109	By-Elections

C		D	
Cab Hire and Street Ry. Farcs in Ottawa	5   li   Des   B   Div   Div   S   Do   Do   Do   Dr   Dr   Dr   Dr   Dr	partments, obliged to Report to Pariament	60 <i>b</i> 81
Cauadians Accepted in Navy 56 Canal Statistics 20	J	itch Loan Company	95
Carrier & Lainé, Lévis, Expropriation		E	
of Property of p.p. 87, 87a, 87b, 87c, 87	0 - 1		
Census, Methods of taking       189, 1896, 189         Census Schedules       189         Charing Cross Bank       189         Chartaged Papilia       189	9 Ele	ections, House of Commons	180 18
Chartered Banks	0 1210	ectric installation at Quebecectric Light, inspection of	117
Chinese Frauds on Pacific Coast 201	7   EH	bow River, Water Power on123,	123a
Civil Service:— Appointments and Promotions, Com-	1	nployees, Sessional, House of Com-	102.
missioners' Annual Report 3		mons	103a 69a
List	$0 \mid En$	nployees of Government in Municipal	
Insurance Act	_   4	Affairs	
Employees at Ottawa	~   ***	ie, Lake, and Great Lakes System	54 5. 5c
Comparative Prices, Canada and United	1		74m
20	$g_{\boldsymbol{b}} \mid \mathbb{E}^{\times}$	ccise Revenue	12
Conciliation Board	8.0 45	schequer Court Rules	197 16
Conference at Washington, re Fisheries 97, 98	$3a \mid_{\text{Ex}}^{\text{Ex}}$	sternal Affairs, Annual Report	29b
"Coquette", Trawler	5		
Conservation Comments, and	2 7	<b>F</b>	
Continue 101 Prings	ga Ira	armer's Bank, Papers relating to110,	
Criminal Statistics	f Ea	armers' Delegation	113 200
	2   DE	sheries, Annual Report	22
Curator's Reports on Banks 152, 15 Curran, R. E., Railway Mail Clerk 16	:0   ' ' '	ish landed	84
	n   Fa	sheries Act, changes in	97 <i>a</i>
Customs Entries at Vancouver 10	)2	ishery Bounty, names of persons receiving	158a
	Pie	sheries Commission, Manitoba, Report	
Customs Tariff Act 70, 75, 10		of	174
D		isheries Commission, Alberta, Interim Report	211
'Daily Telegraph,' Quebec, monies paid	l5a Fi Fi	ishing in the Bays, Rights ofisheries Officers, Names, Salaries and	62
to 1	47   1	Duties of	165 , 91a
Debates Publication and Distribution.	Fi	ishery Wardens in Victoria Co., N.S.	1650
of	15a Fe	ood, Adulteration of	14
De Courcey, Mr., amounts paid to74j. 7	74e Fc	orest Keserve Act	61 10 <i>a</i>

F		1	
Fruit and Vegetable Growers, Deputation of	13a	Indian Reserves, Petroleum on  Indian Affairs, Annual Report  Indian Reserve, St. Peters	53 27 71 <i>a</i> 12
G		Insect Pests	57 43
Geographic Board	21a	Insnrance Act, Civil ServiceInsnrance, Annual ReportInsnrance, Abstract	45 8 9
	* L	Intercolonial Railway, Accidents to	
	10a	Trains	83 <i>a</i>
Georgian Bay Canal	300	Intercolonial Railway, Renewal Equip-	83 <i>b</i>
· ·	77   42	Intercolonial Railway, Maintenance Ac-	
Godleib, Said, Detention of, at Grosse		Intercolonial Railway, Sleepers for	83 <i>b</i> 83 <i>c</i>
	116	Intercolonial Railway, East and West-	Ouc
Grand Trnnk Railway Co., Strike on72a,	72b	bound Traffic	203
Greenway, Thomas, Correspondence with	966	Internal Economy	46 51a
Guysborough 'Times,' Postal Privileges 18		International Naval Conference	56m
H		'International,' Dredge, Work done by	93d
Hague Tribunal Award	97 <i>b</i>	Interior, Annual Report	25 39
THE RESERVE TO SERVE THE PROPERTY OF THE PROPE	!	Inquiry Public Printing and Stationery.  Irrigation Grant, the Percy Aylwin	192
Harbours and Rivers, Amounts Expended		Irwin. Fanny Lonise, Timber on Home-	
	23	stead of	132
	74a		
	76h	Japanese Immigrants	76
Holmes, Rt. Rev. Geo., D.D 15 House of Commons:—		Japan, Treaty with	
		Jetté, His Hononr, Judge, Administrator	
·	18	of Quebec	114 115 <i>b</i>
	103 25 <i>a</i>	Judges Residences in the Prov. of Que-	1100
•	200	bec	170
I		Judges, Appointment of  Justice, Annual Report	199 34
	21b		UT
Immigration, Interior Report, Part II Immigration:—	25c	K	
	76	Kelliher and Gordon, Agreement re N.	
Special Agents	76a	T. R	77h
011 4 7 7 7	76 <i>b</i> 76 <i>c</i>		156
	76d	Krenzer, J., Correspondence with	96b
Complaints against Restaurant Keep-		L	
	76e	Labour, Annual Report	0.0
	78g	Labour, Department of, Correspondence	36
	76h	re Quebec Bridge	1370
Imperial Conference, Minutes of 2 Imperial Conference, Admiralty Con-	208	Labour Gazette, Mailing List of Lake, Genl. Sir P. II. N., Report of	92
	208c	Lands, Dominion	35 <i>b</i> 96 <i>b</i>
Imperial Conference, Military Confer-		Laliberté, J. B., amonnts paid to	146
T 110 0 0 0 1 1 1 1 0	08d		74d
Importations from the United States131, 1	176 .31a	Law Firms, amounts paid to	74 e 99
		La Vigie, amounts paid to	740
S887—1½		3	

L	N
Le Canada, amounts paid to	k Interim Report of Commissioners 77k Kelliher and Gordon, Agreement be-
Le Soleil, amounts paid to	b tween
Lighthouse Keepers on River St. Law-	Moncton to Winnipeg
rence	
List of Shipping	
Lohster Fishery Regulations 48	Spur Line to Quebec
Long Sault, Works at	
Louishurg, Bait Freezers at 177	a Train-hauled Filling 77d 58, 58a, 58b, 58c
M	Vapanee River, Dredging of 93
Mahone Bay, Dismissal of Sub-collector	Natural Gas, on Six Nation Reserve 710
at	Naval Service of Canada:-
Malboeuf, Jos. William, Half-breed	Applications for Service in 56c Allowances to Petty Officers, &c 56f
Scrip, issued to	
Manitoha Boundary 57	Deputy Minister and other Officers in 56d
Manitoha Fisheries Commission 174	Expenditure in Connection with.
Manitoha and South-eastern Railway Co. 196 Marine, Annual Report	Increase of Wages Machorized
Martineau Company, monies paid to 74	International Ivaval Conscience in 202
Measures, Inspection of	International Naval Conference, Cor-
Montreal Herald, amounts paid to 74	respondence
Militia Council, Annual Report 35 Militia, General Orders 41	Maines of Employees in
Militia Council, Interim Report 35	Name, Tonnage, &c., or each barp
Ministers of the Crown, Travelling Ex-	ances, &c 56k
penses of	Tetrions for rostponement of Maophion
Mines, Report of Department 26 Mint, Operations of the 75	01
Miramichi Bay, Dredging in 93	litegulations is thirty of curgous
Miscellaneous, Unforseen Expenses 49	
Meat Packers of Ontario and Quehec,	Regulations in. re Issue of Clothing 56a
Memorandum by	verson torver burvey
'Montcalm,' Trips Made by Steamer 169	Newmarket Canal, Correspondence, &c., 201
Montreal, Government Employees at 69	Vewspapers, sums paid to
Mounted Police	Netherland Loan Co 95. 95a, 95b, 95d
Mc -	North Atlantic Coast Fisheries 97
McDougall, Rev. John 71	Northwest Territories Act. Chap. 62 79 North Bay, Receipts from Wharf at 111
N	Northwest Territories, Commissioner for 181
National Battlefields Commission	North Atlantic Collieries 155
National Transcontinental Railway:-	0
Sixth Report of Commissioners 3	
	71 Office Specialty Manufacturing Co.,
Contracts for Bridges	Production of the contract of
face	Dening and Closing of Parliament 104  m Dium Smuggling ou Pacific Coast 207
G	7c orders in Council re D.L.S. Act 60
Eastern Division, Expenditure on 7	Ordinance to rescind Cukon Ordinance 78
	ttawa Improvement Commisisou, Re-
Honey, Quinlan & Robertson, Con-	7i port of
	7a )vster Culture

P	R
Paris Exposition, Expenses Incurred for 206 Parliament, Opening and Closing of 104 Parrsboro. Post Office Building at 86a	Retiring Allowances
Pelagic Sealing Treaty	Royal Northwest Mounted Police 28
sence of	S
Penitentiary at New Westminster 112 Percy Alwyn, Irrigation Grant 192	Samson & Filion, Quebec, monies paid to 124 Saskatchewan University, Land Grant
Petroleum and Gas Regulations 53	for 143
Phœuix Bridge Co., Payment by 82	Secretary of State, Aunual Report 29
Picard, O., & Sous, money paid to 74i Police, Dominion	Senate, Cost of
Police, Royal Northwest Mounted 28 Postmaster General, Annual Report 34	Seventh Military District, Complaint against Commandant
Powassan to Nipissiug, Mail Route 171 Preston, W. T. R95, 95a, 95b, 95c	Seybold Building, Cost of Alterations and Repairs to
Preferential Tarriff, Goods Imported	Shareholders in Chartered Banks 6
under	Sherwin-Williams Paint Co., amounts paid to 124
Prince Edward Island, Tunnel 188	Shipping, List of
Printing Bureau, Employees of 190 Printing, &c., Government 71	Six Nation Reserve, Natural Gas on 716 South Grey, Appointments in
Provincial Control of Lands, &c 106, 106a	Southwest 4 Section 10, Township 38 96
Proclamation bringing into Force 'An Act to Amend the Ry Act.' 108	Stadacona Farm, Purchase of 191 Steamboat Inspection 236
Public Accounts, Annual Report 2	St. Peters Indian Reserve71, 71a, 71b
Public Lands, &c., Disposition of141, 141a Public Printing and Stationery 32	St. Pie, Post Office at
Public Printing and Stationery Inquiry 39	Coal Purchased for
Public Works, Annual Report 19	Superannuation, &c 45
Q	Supplies bought from Firms in Kings-
Quebec, Extension of Boundaries of 65 Quebec Oriental Railway. 89, 128, 128a, 128b	ton
Quebec Board of Trade, Resolutions by. 122	Subsidy Act, 1910 207
Quebec, Temporary Employees at 120a	т
Quebec Bridge Co., Legal Existence of.125, 125a Quebec Bridge, Tenders, &c., for137, 137a	_
Quebec Bridge, Engineers Appointed 137b	Tanguay, George, Lease of Government
Quebec Bridge, Correspondence re Plans for New Bridge	Tanguar Goorge Quebes monies paid to 150
Quebec Bridge, Correspondence, Depart-	Tariff Relations with the United States
ment of Labour re 137c	Taschereau, C. E., Quebec, monies paid
R	to
Railways Owned or Operated in United	Trade and Commerce, Canadian Trade 100
States by Canadian Railways 186	Trade and Commerce
Railways and Cauals, Annual Report 20 Railway Commissioners, Report of 20c	Trade and Navigation
Railway Statistics 20b	
Reciprocity with the United States	Trade with Foreign Countries 10
Reciprocal Trade with the Australian	Trade with United Kingdom and Foreign Countries
Commonwealth	Trade Unions
Reconnaisance Survey of the Nelson River	Transcontinental Railway Commission-

т	${f v}$
Transcontinental Railway, Contract for Bridges	ence re
Treaty re Pelagic Sealing	Walsh, E. J., C.E., Correspondence with 204 Wanda,' Appraising of the 163 Warrants, Governor General's 42 Weights, Measures, &c 13 Weigher, Appointment of at Montreal 134 Wentworth, Constituency, Appointments in 120 Welland Canal, Enlargement
v	Wren,' the Trawler 85
Vancouver, Customs Entries at	Yukon, Ordinances of Council, 1909 40 Yukon, Ordinances Rescinded 78 Yukon, Ordinances of Council, 1910 40

See also Alphabetical List, Page 1.

# LIST OF SESSIONAL PAPERS

Arranged in Numerical Order, with their titles at full length; the dates when Ordered and when Presented to the Houses of Purliament; the Names of the Senator or Member who moved for each Sessional Paper, and whether it is ordered to be Printed or Not Printed.

#### CONTENTS OF VOLUME 1.

(This volume is bound in two parts.)

#### CONTENTS OF VOLUME 2.

- Public Accounts of Canada, for the fiscal year ended 31st March, 1910. Presented 21st November, 1910, by Hon. William Paterson.
  - Printed for both distribution and sessional papers.
- 3. Estimates for the fiscal year ending 31st March, 1912. Presented 2nd December, 1910, by Rt. Hon. Sir Wilfrid Laurier.....Printed for both distribution and sessional papers.
- 4. Supplementary Estimates for the fiscal year ending 31st March, 1911. Presented 6th February, 1911, by Hon. W. S. Fielding.
  - Printed for both distribution and sessional papers.
- 5a. Further Supplementary Estimates for the year esding 31st March, 1911. Presented 8th May, 1911, by Hon. W. S. Fielding.
  - Printed for both distribution and sessional papers.
- 5b. Further Supplementary Estimates for the fiscal year ended 31st March, 1911. Presented 3rd May, 1911, by Hon. W. S. Fielding.
  - Printed for both distribution and sessional papers.
- 5c. Further Supplementary Estimates for the fiscl year ending 31st March, 1912. Presented 9th May, 1911. by Hon. W. S. Fielding.
  - Printed for both distribution and sessional papers.
- 5d. Further Supplementary Estimates of sums required for the service of the Dominion for the year ending on 31st March, 1912. Presented 17th May, 1911, by W. S. Fielding. Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 2—Concluded.

6. List of shareholders in the Chartered Banks of the Dominion of Canada as on December 31, 1910. Presented 10th April, 1911, by Hon. W. S. Fielding.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 3.

#### CONTENTS OF VOLUME 4.

- 8. Report of the Superintendent of Insurance, for the year ended 31st December, 1910.

  Printed for both distribution and sessional papers.
- Abstrart of Statements of Insurance Companies in Canada for the year ended 31st December, 1910. Presented 27th April, 1911, by Hon. W. S. Fielding.
   Printed for distribution.

#### CONTENTS OF VOLUME 5.

- 10a. Report of the Department of Trade and Commerce, Part II. Canadian Trade with France, Germany, United Kingdom and United States. Presented 32nd November, 1910, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

10b. Report of the Department of Trade and Commerce. Part III. Canadian Trade with foreign countries, except France, Germany, the United Kingdom and United States Presented 22nd November, 1910, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 6.

- 10d. Report of the Department of Trade and Commerce for the fiscal year ended March 31st 1910. Part V, Grain Statistics, including the crop year ended August 31st 1910, and the season of navigation ended December 6th, 1910. Presented 12th May. 1911, by Hon. William Paterson...Printed for both distribution and sessional papers.
- 10e. Report of the Department of Trade and Commerce for the fiscal year ended 31st March, 1910, Part VI., Subsidized steamship services. Presented 20th April, 1911, by Hon. William Paterson.....Printed for both distribution and sessional papers.
- 10f Report of Trade and Commerce for the fiscal year ended 31st March, 1910, part VII.— Trade of foreign countries and Treaties and Conventions. Presented 31st March, 1911, by Hon. W. S. Fielding....Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 7.

11. Report of the Department of Customs, for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. William Paterson.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 8.

13. Inspection of Weights and Measures, Gas and Electric Light, for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. William Templeman.

Printed for both distribution and sessional papers.

14. Report on Adulteration of Food, for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. William Templeman.

Printed for both distribution and sessional papers.

15. Report of the Minister of Agriculture for the Dominion of Canada, for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. S. A. Fisher.

Printed for both distribution and sessional papers.

15a. Report of the Dairy and Cold Storage Commissioner for the fiscal year ending the 31st March, 1910. Presented 12th January, 1911, by Hon. S. A. Fisher. Printed for both distribution and sessional papers.

15b. Report of the Veterinary Director General and Live Stock Commissioner, J. G. Rutherford, V.S., for the year ending 31st March, 1909.

Printed for both distribution and sessional papers.

### CONTENTS OF VOLUME 9.

16. Report of the Director and Officers of the Experimental Farms, for the year ending 31st March, 1910. Presented 21st November, 1910, by Hon. S. A. Fisher.

Printed for both distribution and sessional papers.

17. Criminal Statistics for the year ended 30th September, 1909. Presented 21st November, 1910, by Hon. S. A. Fisher......Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 10.

- 18. Return of By-Elections (Eleventh Parliament) House of Commons. 1910.
  Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 11.

- 19. Report of the Minister of Public Works on the works under his control for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. William Pugsley.

  Printed for both distribution and sessional papers.
- 19a. Progress Report Ottawa Liver Storage, for the fiscal year 1209-1910 (supplementing investigations in regard to Georgian Bay Ship Canal project). Presented 6th March, 1911, by Hon. William Pugsley. Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 12.

19b. Report upon Reconnaisance Survey of the Nelson River, September-October, 1909.

Presented 16th February, 1911, by Hon. William Pugsley.

Printed for both distribution and sessional papers.

Report of the Department of Railways and Canals, for the fiscal year ended 31st March,
 1910. Presented 21st November, 1910, by Hon. G. P. Graham.

Printed for both distribution and sessional papers.

- 20a. (1909.) Canal Statistics for the season of navigation, 1909. Presented 21st March, 1910, by Hou. G. P. Graham . . . . . Printed for both distribution and sessional papers.
- 20b. Railway Statistics of the Dominion of Canada, for the year ended 30th June, 1910. Presented 16th December, 1910, by Hon. G. P. Graham.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 13.

- 20c. Fifth Report of the Board of Railway Commissioners for Canada, for the year ending 31st March, 1910. Presented 21st November, 1910, by Hon. G. P. Graham. Printed for both distribution and sessional papers.
- Report of the Department of Marine and Fisheries (Marine, 1910. Presented 21st November, 1910, by Hon. L. P. Brodeur.

Printed for both distribution and sessional papers.

21a. Report of the Geographic Board of Canada containing all decisions to 30th June, 1910.
Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 14.

21b. Report on Ice formation in the St. Lawrence River, and Report of the influence of Icebergs on the temperature of the Sea as shown by use of the Micro-Thermometer in a trip to Hudson Strait and Bay in July, 1910, by H. T. Barnes, D.Sc., F.R.S.C. Presented 16th May, 1911, by Hon. S. A. Fisher.

Printed for both distribution and sessional papers.

21c. List of Shipping issued by the Department of Mariue and Fisheries, being a list of vessels on the registry books of Canada, on 31st December, 1910. Presented 19th July, 1911, by Hon. L. P. Brodeur.

Printed for both distribution and sessional papers.

22. Report of the Department of Marine and Fisheries (Fisheries), 1910. Presented 21st November, 1910, by Hon. L. P. Brodeur.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 15.

- 23. Report of the Harbour Commissioners, &c., to 31st December, 1910.

  Printed for both distribution and sessional papers.
- 23a. Report of the Chairman of the Board of Steamboat Inspection, for the fiscal year 1910. Presented 21st November, 1910, by Hon. L. P. Brodeur.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 15—Concluded.

24. Report of the Postmaster General for the year ended 31st March, 1910. Presented 22nd November, 1910, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 16.

25. Report of the Department of the Interior, for the fiscal year ending 31st March, 1910. Presented 21st November, 1910, by Hon. Frank Oliver.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 17.

- 25". Report of the Chief Astronomer, Department of the Interior, for year ending 31st.
- 25b. Annual Report of the Topographical Surveys Branch, Department of the Interior, 1909-10. Presented 31st March, 1911, by Hon. Frank Oliver.
- Printed for both distribution and sessional papers. 25c. Report of Dr. P. H. Bryce, Chief Medical Officer, Appendix to Report of Superinten-

dent of Immigration. Presented 9th. December, 1910, by Hon. Frank Oliver. Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 18.

- 25d. Report of the Hydrographic Survey (Streams measurement). Department of the
- 26. Summary Report of the Geological Survey Branch, Department of Mines, for Calendar year 1910. Presented 19th. July, 1911, by Hon. William TeTmpleman. Printed for both distribution and sessional papers.
- 26a. (1909) Summary Report of the Mines Branch of Department of Mines, for the calendar year, 1909. Presented 26th. January, 1911, by Hon. William Templeman. Printed for both distribution and sessional papers.

This is bound in Vol. XVI, 1910.

#### CONTENTS OF VOLUME 19.

27. Report of the Department of Indian Affairs, for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. Frank Oliver.

Printed for both distribution and sessional papers.

28. Report of the Royal Northwest Mounted Police, 1910. Presented 2nd December, 1910, by Rt. Hon. Sir Wilfrid Laurier. Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 20.

29. Report of the Secretary of State of Canada for the year ended 31st March, 1910. Presented 21st November, 1910, by Hon. Charles Murphy.

Printed for both distribution and sessional papers.

29a. (No issue).

### CONTENTS OF VOLUME 20—Concluded.

29b. Report of the Secretary of State for External Affairs, for the year ended 31st March.
1910. Presented 21st November, 1910, by Hon. Charles Murphy.

Printed for both distribution and sessional papers.

### CONTENTS OF VOLUME 21.

- 34. Report of the Minister of Justice as to Penitentiaries of Canada, for the fiscal year ended 31st March, 1910. Presented 30th November, 1910, by Hon. A. B. Aylesworth.

  Printed for both distribution and sessional papers.
- 35. Report of the Militia Council, for the fiscal year ending 31st March. 1910. Presented 21st November, 1910, by Hon. Sir Frederick Borden.

Printed for both distribution and sessional papers.

35a. Report of General Sir John French, G.C.B., Inspector General of the Imperial Forces, upon his Inspection of the Canadian Military Forces. Presented 22nd November, 1910, by Hon. Sir Frederick Borden.

Printed for both distribution and sessional papers.

- 36. Report of the Department of Labour, for the fiscal year ending 31st March, 1910, including Report of Proceedings under the Industrial Disputes Investigation Act, 1907. Presented 21st November, 1910, by Hon. W. L. Mackenzie King.

Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 22.

- 36a. Report on Industrial Disputes in Canada up to 31st March, 1911.

  Printed for both distribution and sessional papers.

### CONTENTS OF VOLUME 22-Concluded.

- 37. Sixth Report of the Commissioners of the Transcontinental Railway, for the year ending 31st March, 1910. Presented 21st November, 1910. by Hon. G. P. Graham.

  Printed for both distribution and sessional papers.
- 39. Report of the Hononrable the Secretary of State, on the inquiry into the affairs of the Department of Public Printing and Stationery. Presented 21st November, 1910, by Hon. Charles Murphy........Printed for both distribution and sessional papers.

#### CONTENTS OF VOLUME 23.

- **40.** Ordinances of the Ynkon Territory, passed by the Ynkon Council in the year, 1909. Presented 21st November, 1910, by Hon. Charles Mnrphy........Not printed.
- **41.** General Orders issued to the Militia, between the 1st November, 1909, and the 18th October, 1910. Presented 22nd November, 1910, by Hon. Sir Frederick Borden.

  Not printed.
- 43. Statement in prisnance of section 17 of the Civil Service Insurance Act, for the year ending 31st March, 1910. Presented 22nd November, 1910, by Hon. William Paterson.

  Not printed.
- 44. Statement of expenditure on account of miscellaneous unforeseen expenses, from the 1st April, 1910, to 17th November, 1910, in accordance with the Appropriation Act of 1910. Presented 22nd November, 1910, by Hon. William Paterson...Not printed.
- 45. Statement of Snperannuation and Retiring Allowances in the Civil Service during the year ending 31st December, 1910, showing name, rank, salary, service, allowance and cause of retirement of each person superannuated or retired, also whether vacancy filled by promotion or by new appointment, and salary of any new appointment. Presented 22nd November, 1911, by Hon, William Paterson.......Not printed.
- 47. Return, in pursuance of section 16, of the Government Annuities Act, 1908, containing statement of the business done during the fiscal year, ending 31st March, 1910. Pre sented 1st December, 1910, by Hon. S. A. Fisher.....Printed for sessional papers.
- 48. Return to an order of the House of Commons, dated 1st December, 1910, for a copy of the existing lobster fishery regulations, adopted by Order in Council on 30th September, 1910. Presented 1st December, 1910, by Hon. L. P. Brodenr.

- 49. Detailed statement of all bonds or securities registered in the Department of the Secretary of State of Canada, since last return (25th November, 1909), submitted to the Parliament of Canada under Section 32 of Chapter 19, of the Revised Statutes of Canada, 1906. Presented 1st December, 1910, by Hon. Charles Murphy....Not printed.
- 50. Annual Return respecting Trade Unions, under chapter 125, R.S.C., 1906. Presented 1st
- 51. Regulations under "The Destructive Insect and Pest Act." Presented 1st December.
- 52. First Annual Report of the Commission on Conservation, 1910. Presented 5th Decem-
- 53. Regulations established by Order in Council of 17th May, 1910, for the disposal of petroleum and gas on the Indian Reserves in the Provinces of Alberta and Saskacbewan and in the Northwest Territories. Presented 5th December, 1910, by Hon.
- 54. Report of the International Waterways Commission on the regulation of Lake Erie, with a discussion of the regulation of the Great Lakes System. Presented 7th Decem-
- 54a. Return to an Address of the House of Commons, dated 12th December, 1910, for a copy of all orders in council or other authority, appointing members of the Canadian section of the Joint International Waterways Commission, together with all reports, recommendations and correspondence submitted to the Government, or any department thereof, by the said Canadian section, or any member thereof. Also a statement of the total expenses of such Canadian section up to date, with particulars thereof. Presented 8th May, 1911.-Mr. Macdonell........Not printed.
- 55. Return in so far as the Department of the Interior is concerned) of copies of all Orders in Council, plans, papers, and correspondence which are required to be presented to the House of Commons, under a Resolution passed on 20th February, 1882, since the date of the last return, under such Resolution. Presented 9th
- 55a. Return of lands sold by the Canadian Pacific Railway Company during the year which ended on the 31st October, 1910. Presented 4th May, 1911, by Hon. Frank Oliver ..... Not printed.
- 56. Regulations issued by the Department of the Naval Service regarding rates of Pay, pursuant to Section 47 of the Naval Service Act. Presented 9th December, 1910,
- 56a. Regulations issued by the Department of the Naval Service, regarding the issue of the existing Lobster Fishery Regulations, adopted by rder in Council on 30th Septem-
- 56b. Return to an order of the House of Commons, dated 5th December, 1910, for a statement showing the detailed expenditure to date out of the sum voted by the House in connection with the new Navy, giving in each case the amount paid, to wbom paid and the object of the expenditure. Presented, 16th December, 1910 .- Mr.

- 56d. Return to an address of the Senate dated 24th November, 1910, for the following information:—1. Has the Department of the Naval Service, which was erected by the legislation of last session, been regularly organized and put in operation? 2. Who has been appointed Deputy Minister by the Governor in Council? 3. Who are the other officials and clerks necessary for the proper administration of the affairs of the new department who have been appointed by the Governor in Council? 4. Who among these officials and clerks are those who have been transferred from the Department of Marinc and Fisheries to the Department of the Naval Service? 3. Wro among these officials and clerks come from elsewhere? 6. What is the salary of each of the officials? Presented 11th January, 1911.—Hon. Mr. Landry....Not printed.
- 56/. Copy of an Order in Council approved by His Excellency the Governor General on the 22nd December, 1910, authorizing certain ollowances to Petty Officers and men in the Naval Service. Presented 19th January, 1911, by Hon. L. P. Brodeur.

- 56j. Return to an order of the Senate dated February 1, 1911, calling for in as many columns:-1. The names of all the ships of which the Canadian fleet service is actually composed. 2. The tonnage of each of these ships. 3. How old, is each ship at present. 4. The purchase price, or cost of construction, or, in default thereof, the actual value of each ship. 5. The horse-power of each of them. 6. The motive power, side wheels, propeller or sails. 7. The number of persons of which the crew of each of these ships is composed. 8. The cost of annual maintenance of each ship with its crew. 9. The purpose for which each ship is used, specifying whether it is for the guarding of the coasts, the protection of fisneries, or for the what other purpose. 10. The waters on which each of these ships sails-the waters of the Atlantic or Pacific Oceans, the Greot Lakes, of the St. Lawrence river, or elsewhere, with a short statement showing the number and the net tounage of the ships of the Great Lakes service,-of the ships stationed ou the shores of British Columbia, and of the ships sailing on the waters of the eastern portion of the American continent owned by us. Presented 14th February, 1911.-Hon. Mr. Landry. Not printed.
- 56i. Return to an address of the House of Commons, dated 6th Fehruary, 1911, for a copy of the final protocol or agreement entered into at the International Naval Conference held in London, December, 1908, February, 1909, and of the general report presented to the said Naval Conference on helalf of its drafting committee, and of all correspondence exchanged between the Imperial Government and the Government of Canada in regard to the same. Presented 10th March, 1911.—Mr. Monk. . . . . Not printed.
- 56n. Return to an order of the House of Commons, dated 27th Fehruary, 1911, for a Return showing:—1. How many Canadians have been accepted as members of the Canadian Navy. 2. What are the names and former residence of those who have been accepted. Presented 24th March, 1911.—Mr. Taylor (Leeds),.......Not printed.
- 57. Return to an Order of the House of Commons, dated the 7th December, 1910, for a copy of all correspondence between the Government of Canada or the Right Hononvahle, the First Minister, and the government of Manitoba, or the Premier of Manitoba, referring to the demand of Manitoba for an extension of boundaries and an increase in subsidy. Presented 14th December, 1910.—Mr. Staples.

Printed for sessional papers.

58. Memorandum respecting the finances of the National Battlefields Commission, as on the 31st March, 1910. Presented 15th December, 1910, by Hon, William Paterson.

Printed for sessional papers

- 58b. Return to an Address of the Senate dated 24th February, 1911, calling for a copy of the last report made to the Government by the members of the Quebec Battlefields Commission. Presented 10th March, 1911.—Hon. Mr. Landry.....Not printed.
- 58c. Return to an Order of the Senate dated 12th January, 1911, for copies of all Orders in Council relating to the appointment of members of the "National Battlefields Commission" of the Province of Quebec, as well as a statement showing the sums received by the said Commission, the sources whence received, the interest thereon, the expenses incurred, the nature of such expenses, distinguishing what has been paid for the acquisition of lands, the balance in hand, and the approximate cost, with the nature of the expenses to be incurred to attain the end which the Commission has proposed for itself. Presented 21st March, 1911.—Hon. Mr. Landry.
- 59 Return to an address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty or reciprocity with the United States; and also if all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 15th December, 1910.—Mr. Foster......Not printed.
- 39a. Supplementary return to an address of the House of Commons, dated 7th December 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence bad with the government, or any memor thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 11th January, 1911.—Hon. Mr. Foster.

  Not printed
- 59c. Firther supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring os asking for a treaty of reciprocity with the United States; and also of all similar documents 8887—2

59d. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, boards of trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 27th February, 1911.—Hon. Mr. Foster.,

Not printed.

59c. Firther supplementary return to an Address of the Honse of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 8th March, 1911.—Hon. Mr. Foster.

Not printed.

59f. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 14th March, 1911.—Hon. Mr. Foster.

Not printed.

59g. Further supplementary return to an Address of the Honse of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 22nd March, 1911.—Hon. Mr. Foster.

Not printed.

59h. Further supplementary return to au Address of the Honse of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence bad with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 27th March, 1911.—Hon. Mr. Foster.

Not printed.

59i. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individnals, boards of trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents pro-

testing against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1-t January, 1910. Presented 28th March, 1911.—Hon. Mr. Foster.

Not printed.

59j. Further supplementary return to au Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individnals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 28th March, 1911.—Hon. Mr. Foster.

Not printed.

59k. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 31st March, 1911.—Hon. Mr. Foster.

Not printed.

591. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 7th April, 1911.—Hon. Mr. Foster.

Not printed.

59m. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 19th April, 1911.—Hon. Mr. Foster.

Not printed.

59n. Firther supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 19th April, 1911.—Hon. Mr. Foster.

Not printed.

590. Further supplementary return to an Address of the House of Commous, dated 7th December, 1910, for a copy of all petitions, memorials and resolutions from individuals, boards of trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States, and also of all somilar documents pro8887—21

testing against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 2nd May, 1911.—Hon. Mr. Foster.

Not printed.

59p. Further supplementary return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all memorials and resolutions from individuals, Boords of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 5th May, 1911.—Hon. Mr. Foster.

Not printed.

594. Return to an Order of the House of Commons, dated 19th April, 1911, for a Return showing what duties are imposed by Australia, New Zealand, Norway, France, Spain, Sweden, Switzerland, Austria-Hungary, Japan, Argentine, Venezuela and Russia, respectively, upon each of the articles included in the reciprocity agreement between the United States and Canada.

59r. Return to an order of the House of Commons, dated 8th May, 1911, for a Return showing, taking the latest Return of Commerce and Navigation of the United States as a basis, the advantage Canada will have in the United States market over her principal competitors, under the construction given at Washington by the United States Court of Customs Appeals on April 10th, 1911, regarding the favoured nation clause, by which the competitors of Canada in the United States market are denied the privileges granted to Canada by the reciprocal agreement in regard to the importation into the United States of the following goods and articles, namely: (a) Mackerel pickled or salted; (b) Herring, pickled; (c) Cod, Haddock, Hake and Pollock, dried, smoked, salted or pickled; (d) all other kiuds of fish, salted or pickled; (c) Fish oils: (f) Butter; (g) Cheese; (h) Cattle; (i) Horses; (j) Oats; (k) Coke; (l) Mineral Waters; (m) Rolled Iron or Steel Sheets, coated with zinc, tin or other metal; (n) Mica; (o) Flax seed; (p) Beans and dried peas; (q) Onions; (r) Potatoes; (s) other vegetables in natural state.

Also showing the present rate of duty in the United States on the above goods and articles; the rate under the proposed reciprocal agreement of the said goods and articles; the value of goods; and the amount of duty collected on goods imported from said competitors on the trade of said year, which will be free under the agreement on goods from Canada. Presented 16th May, 1911.—Mr. Sinclair. Not printed.

59°. Further supplementary Return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all memorials and resolutions from individuals, Boards of Trade or other bodies and corporations, favouring or asking for a treaty of reciprocity with the United States; and also of all similar documents protesting against or unfavourable to the same, and a copy of all correspondence had with the Government, or any member thereof, concerning reciprocity with the United States, since the 1st January, 1910. Presented 19th May, 1911.—Hon. Mr. Foster...Not printed.

- 59t. Statements relative to (1) The yearly imports, quantity and value, for the past six years into Canada from, respectively, Anstralia, New Zealand, Denmark, Holland, Belgium, France, Argentine Republic and the United States, of wheat, oats, horses, cattle, sheep, lambs, mntton, beef, eggs, butter, cheese, fowl, vegetables and fruit.
  - (2) The average prices of butter and of eggs in London, England, for the past five years in comparison with the prices, respectively, in Eastern Provinces, in Montreal, in Toronto, in Minneapolis, in Chicago, in Detroit, in Buffalo, in Boston and in New York. Presented 28th July, 1911, by Hon. S. A. Fisher.......Not printed.

- 60b. Retnrn called for by section 77 of the Dominion Lands Act, chapter 20 of the Statutes of Canada, 1908, which is as follows:—
- 62. Return to an order of the House of Commons, dated the 7th December, 1910, for a copy of Sir John Thompson's memorandum on the question of the rights of fishing in the bays of British North America, prepared for the use of the British Plenipotentiaries at Washington in 1888, and a copy of the Treaty agreed to and approved by the President. Presented 11th January, 1911.—Hon. Mr. Foster.

Printed for sessional papers.

63. Return to an Address of the House of Commons, dated 7t7h December, 1910, for a copy of any memorials, correspondence, &c., between His Excellency the Governor General and the Colonial Office, or between any member of the government, and the foreign consals general in Canada, relative to the status of the latter, at official functions, such as the vice-regal drawing room. Presented 11th January, 1911.—Mr. Sproule.

- 64. Return to an order of the House of Commons, dated 6th December, 1910, for a return showing:—1. What newspapers or companies publishing newspapers in the cities of Moutreal and Quebec have directly or indirectly received sums from the Government of Canada for printing, lithographing, binding or other work, between the 31st March, 1910, and the 15th November, following.
  - 2. What is the total amount paid to each of said newspapers or companies between the dates above stated. Presented 11th January, 1911.—Mr. Monk.....Not printed.
- 65. Return to an Address of the House of Commons, dated 7th December, 1910, for a copy of all Orders in Council, correspondence, papers, maps or other documents, which passed between the Government of Canada or any member thereof, and the Government of Quebec, or any member thereof, or any other parties on their behalf, or between the Government of Canada and the Government of Ontario, or any members thereof, regarding the extension of the boundaries of the province of Quebec, as set forth in an Order in Council dated 8th July, 1896, establishing a conventional boundary, therein specified. And also any correspondence, papers, documents, &c., that may have passed between the aforesaid governments or members thereof, relative to the passing of an Act to confirm and ratify the aforesaid conventional boundary, which was passed in 1898. Presented 11th January, 1911.—Mr. Sproule.

Printed for sessional papers.

- 67. Return to an Order of the House of Commons, dated 5th December, 1910, for a copy of all correspondence, reports, memorials, surveys and other papers in the possession of the Government, and not already brought down, regarding the oyster industry of Canada; also a copy of all correspondence, reports and other papers regarding the ownership and control of Oyster beds and of barren bottoms suitable for Oyster culture, and regarding the consolidating of the ownership with the control and regulation of such beds and barren bottoms, and vesting the same in the hands of the Dominion Government; olso a copy of all correspondence, reports, recommendations and other papers relating to the leasing or sale of such beds or barren bottoms or of portions of them, for the purpose of Oyster culture or cultivation. Also o copy of all correspondence and reports relating to the culture, cultivation asd conservation of oysters and other mollusks. Presented 11th Jannary, 1911.—Mr. Warburton.

Printed for sessional papers.

- 70. Return to an Address of the House of Commons, dated 7th December, 1910, for a Return showing what arrangements have been made with foreign countries by the Governor General in Conncil under the provisions of the Customs Tariff Act of 1907, without reference to Parliament. Presented 11th January, 1911.—Mr. Ames....Not printed.

- 72. Return to an Order of the House of Commons, dated 14th December, 1910, for a copy of all correspondence, reports, documents and papers relating to the strike of the employees of the Cumherland Coal and Railway Company, Limited, not previously hrought down. Presented 11th January, 1911.—Mr. Rhodes........Not printed.

- 74. Supplementary Return to an Order of the House of Commons, dated 24th November, 1909, for a return showing the total amounts paid by the government in each year since 1896, for all printing, advertising and lithographing done outside of the Government Printing Bureau; the total amount so paid by each department of the Government or such purposes during each year; the names and addresses of each individual, firm or corporation to whom any such moneys have been so paid, and the total amount paid to each such individual, firm or corporation in each year since 1896. What portion of the said sums, if any, so paid since 1896 was expended after public advertisement, tender and contract, to whom such tenders were awarded, whether to the lowest tender in each case, what portion was expended otherwise than by public advertisement, tender and coutract, and to whom it was paid in each instance. Presented 11th January, 1911.—Mr. Armstrong.......Not printed.
- 74b. Return to an Order of the Senate dated 25th January, 1911, for the production of a statement showing, year by year, from the 1st July, 1896 up to this date, the sums of money paid to the newspaper, Lc Soleil, by each of the different departments of the Government of this country. Presented 8th March, 1911.—Hon. Mr. Londry.

- 749. Return to an Order of the Seuate dated 31st January, 1911, showing, year by year, from July the 1st, 1896, up to date, the amounts paid to the Martineau Company by the several departments of the country. Presented 4th April, 1911.—Hon. Mr. Landry. Not printed.
- 74h. Return to an Order of the Senate dated the 31st January, 1911, showing, year by year, from 1st July, 1896, up to date, the amounts paid to Mr. Jean Drolet, of Quebec, by the several departments of the country. Presented 4th April. 1911.—Hon. Mr. Landry. Not printed.
- 74) Return to an Order of the Seuate dated 24th January, 1911, showing, year by year from July 1, 1896, up to date, the amounts paid to Mr. De Courcy, contractor, by each of the departments of this country. Presented 4th April, 1911. Hon. Mr. Landry.

  Not printed.
- 74k. Return to an Order of the House of Commons, dated the 23rd February, 1911, for a Keturn showing:—1. All sums of money paid by the Government since 31st March and to Le Canada newspaper of Montreal or the publishers of the same respectively, for odvertising or printing, for lithographing or other work; and directly or indirectly for copies of the newspaper.
  - 2. Is the said newspaper executing any work of any kind for the Government at present.
  - 3. Have tenders been called publicly for any of the work done by said newspaper for the government during the past year. Presented 6th April, 1911.—Mr. Monk.

- 76. Return to an Order of the Honse of Commons, dated 14th December, 1910, for a Return showing all applications made to the Government during the period of agreement with Japan concerning Japanese immigrants, to admit such immigrants for special purposes, together with a copy of all correspondence in councction with the same. Presented 12th January, 1911.—Mr. Taylor (New Westminster)......Not printed.

- 76c Return to an Order of the Senate dated 24th January, 1911, calling for the production in detail of the accounts and claims fyled at the Department of the Interior or the Immigration Office, Quebec, by Mr. Jacques Dery; restaurant keeper, during the navigation season of 1910. Presented 7th February, 1911.—Hon. Mr. Landry.

Not printed.

76d. Return to an Order of the Senate dated 20th January, 1911, calling for the report received by the Immigration Department on the subject of the complaints brought against Mr. Jacques Dery, the keeper of the restaurant established in the immigration buildings at Quebec, and also of the correspondence exchanged and the inquiry held by the immigration agent with regard to the overcharges by the restaurant keeper, and of the refund which he had to make to immigrants of the price obtained for goods of bad quality. Presented 7th February, 1911.—Hon. Mr. Landry.

- 76c. Return to an Order of the Senate dated 25th January, 1911, for the production of a complaint, sigued by a large number of persons employed at the Immigration Office and Immigration buildings at Quebec and addressed to the agent of the Department at that place, against Mr. Jacques Dery, the restaurant keeper, and also of the reply of the latter. Presented 7th February, 1911.—Hon. Mr. Landry......Not printed.

- 76g. Return to an Order of the Honse of Commons, dated 3rd April, 1911, for a Return show ing the itemized accounts, vouchers, statements, reports and other papers relating to the salary and expenses of and payments to W. O. Creighton, farmer delegate to Great Britain in 1910. Presented 28th April, 1911.—Mr. Stanfield.....Not printed
- 76h. Return to an Order of the House of Commons, dated 3rd April, 1911, for a Return showing all itemized accounts, vouchers, statements, reports and other papers relating to the salary of and payments to W. A. Hickman. immigration agent to Great Britain in 1902 and 1903. Presented 28th April, 1911.—Mr. Stanfield.............Not printed.
- 77. Return to an Order of the House of Commons, dated 5th December, 1910, for a Return showing:—1. The estimated quantity of each class of material required for the construction.
  - 2. The rates or prices agreed upon and the estimated cost of each class of material, based on rates on accepted tender.
  - 3. The total estimated cost based on these quantities and rates in each case of the several bridges let to contract during the fiscal year ended March 31, 1910, referred to on pages 3 and 4 of the Sixth Annual Report of the Commissioners of the Transcontinental Railway.
  - 4. A copy of the specifications and contract in each case, the number of the contract and the name of the contractor.
  - 5. The number of bridges yet to be let to contract, location and character, and the estimated quantity of the different kinds of material in each case.
  - 6. Why these bridges have not been let to contract and when contracts will probably be entered into as to these.
  - 7. The bridges let to contract before March 31, 1909, identified by locality, name of each contractor and number, the estimated cost of each of these bridges at the time the contract was let, based on contract prices, the changes made in the plans, specifications or contracts if any, and claims or allowances for alterations or extras, if any, the percentage of the work done, the payments made to date, the amounts retained as contract reserve, and the ascertained or estimated amount required to complete in each case.

- 77c. Return to an Order of the House of Commons, dated 11th January, 1911, for a Return showing what amounts to date have been paid on force account to each and to all contracts connected with the National Transcontinental railway, setting forth the district affected thereby. Presented 24th January, 1911.—Mr. Amcs....Not printed.
- 779 Return to an Order of the House of Commons, dated 11th January, 1911, for a Retnin showing a list of the members of the engineering staff who have been dismissed, or have resigned or left the service of the National Transcontinental Railway Commission since 1904, with position formerly held, the date of leaving, and the assigned cause in each instance. Presented 7th February, 1911.—Mr. Ames......Not printed.
- 77h. Return to an order of the House of Commons, dated 26th January, 1911, for a Return shoving:—1. In those cases in which an agreement was come to last antumn between Mr. Killiher and Mr. Gordon as to overbreak on the eastern Division of the Transcontinental Railway, what quantities of material, and of what class, and what sums of money were taken from or added to the progress Estimates.
  - 2. In the cases where measurements had to be made, have they been made, and with what result. Presented 17th February, 1911.—Mr. Lennor......Not printed.

- 771. Return to an Order of the Senate dated 18th January, 1911, for a Return showing:—A.

  As relates to the main line of the Transcontinental:—
  - 1. The respective length in miles of each of the divisions of the Transcontinental, named Division A, Division B, &c., from Moncton to Winnipeg, and specifying in which province each of the divisions is located.
  - 2. The estimated cost, at the outset, of the construction of the road in each division.
  - 3. The actual price paid, on the 15th January instant, for the building of the line, sidings, bridges and other necessary works in each division.
  - 4. The approximate cost in each division of the Transcontinental, of what remains to be constructed for the completion of the road.
    - B. As relates to the branch lines of the Transcontinental:-
  - 1. The respective length of each of the said branch lines, specifying the district and the province within which the said branch lines are located.
  - 2. The estimated cost, at the start, of the construction of each of the said branch lines.
  - 3. The actual cost up to the 15th January instant of the construction of said branch lines.
    - 4. The probable cost of the works to be executed on each of the said branch lines.
    - 5. The indication of the special section of the Act which each branch line has been onstructed.
  - 6. The mention of all other branch lines proposed to be constructed by the Transcontinental Railway Commission or the Government, showing the length and probable cost thereof. Presented 8th March, 1911.—Hon. Mr. Landry.............Not printed.
- 77m. Return to an Order of the House of Commons, dated 23rd February, 1911, for a Return showing:—
  - 1. What contracts outside of those numbered 1 to 21, inclusive, have been let for construction on the Transcontinental Railway at Winnipeg and St. Boniface of bridges, station buildings, freight houses, sheds, engine houses, turn tables, water tanks, section houses, work shops, or other buildings, erections, structures or plant.
    - 2. Were these contracts all let after advertisement and upon tender.
  - 3. What is the cost or estimated cost according to schedule or bulk tender in each case, and who is the contractor in each case.
  - 4. Were tenders asked for both by schedulo and on bulk tender basis, on which system was the contract awarded and for what reason in each case.

- 770. Return to an Order of the House of Commons, dated 13th March. 1911, for a Return prepared upon the lines of Sessional Papers No. 46i of the 26th April, 1909, relating to the Eastern Division of the Transcontinental Railway, showing the actual expenditure upon each of the scheduled items upon each of the 21 contracts for construction of this division, down to the latest estimate made upon each contract, and the estimated quantity of work to be done and material to be furnished as to each of these items, and the estimated cost to complete the contract in each case. Presented 10th April,
- 77p. Return to an Address of the Senate dated 23rd March, 1911, for a copy of the Order in Council dated 23rd Jnnc, 1910, transferring from the Government to the National Transcontinental Railway Commission, the spur line between the Quebec bridge and the city of the same name. Presented 19th April, 1911.-Hon. Mr. Landry.

- 78. For approval by the Honse under section 17 of the Yukon Act, Chapter 63 of the Revised Statutes of Canada, 1906, a copy of an ordinance made by His Excellency the Governor General in Conncil, in virtue of the provisions of Section 16 of the said Chapter 63, on the 9th day of December, 1909, and intituled: "An ordinance to rescind an Ordinance respecting the imposition of a tax upon ale, porter, beer or lager beer imported into the Ynkon Territory Presented 13th January, 1911, by Hon. Frank
- 79. Return under Section 88 of the Northwest Territories Act, Chapter 62, Revised Statutes of Canada. Presented 16th January, 1911, by Hon. Frank Oliver.....Not printed.
- 80. Return to an Order of the House of Commons, dated 5th December, 1910, for a copy of all correspondence between the mover and any other persons, corporations and mnnicipal as well as other public bodies, and the Department of Railways and Canals, respectisg the reconstruction and alteration of the Canadian Pacific Railway Company's bridge across the St. Lawrence river at Lachine, P.Q. Presented 16th
- 81. Report of the Commissioner, Dominion Police Force, for the year 1910. Presented 17th
- 82. Return to an order of the House of Commons, dated 7th December, 1910, for a copy of all correspondence exchanged between the government and the Phænix Bridge Company in connection with the payment by said company of \$100,000 in discharge of claims re contract. Presented 16th January, 1911.-Mr. Ames......Not printed
- 83. Return to an order of the House of Commons, dated 14th March, 1910, for a return showing the number of accidents to trains of the I.C.R. for ten months, from 1st April. 1908, to 31st December, 1908; the number of persons killed or injured in each of such accidents for ten months, from 1st April, 1908, to 31st December, 1908; and the cost of each of such accidents to the I.C.R., respectively, for repairs, property destroyed, compensation to passengers, and for compensation to shippers for freight and bag-
- 83a. Return to an order of the Honse of Commons, dated 14th March, 1910, for a return showing the snmber of accidents to trains on the I.C.R. between 1st April, 1909, and present date, and the location and particulars of each; the number of persons killed or injured in each of such accidents since 1st April, 1909, to date; and the cost of each of such accidents to the I. C. R., respectively, for repairs, property destroyed, compensation to passengers, and for compensation to shippers for freight and baggage. Presented 16th January, 1911.—Mr. Stanfield........................Not printed.

- 83b. Return to an order of the House of Commons, dated 5th December, 1910, showing all data, statements, estimates, recommendations and reports with regard to an Intercolonial railway renewal equipment account, and as to the initiation of such account and the operation thereof to the present time.
  - 2. A copy of all correspondence with the Auditor General and other persons in regard thereto.
  - 3. A copy of all correspondence, inquiries and investigations by or on behalf of the Auditor General as to the need for such account, and as to the sufficiency or otherwise of moneys carried to such account, and also as to the application of such moneys.
- 83c. Return to an order of the Senate dated 4th May, 1910, calling for the following information:-
  - 1. Were tenders asked for, in 1908 and 1909, for the purchase of railway sleepers for the use of the Intercolonial railway, and were contracts awarded to the lowest tenders?
  - 2. Who had these contracts, and what is the name of each tendered, and also the amount of each tender?
  - 3. Did the Department of Railways and Canals, in 1908 and 1909, award any contracts whatsoever for the purchase of the said sleepers and what price was paid to each contractor, and who had these contracts?
  - 4. In 1908 and 1909, did the Department of Railways and Cauals ask for tenders for the purchase of sleepers made of spruce, white, gray and yellow, as well as of birch, ash, poplar, &c.?
  - 5. What quantity of these sleepers, for each kind of wood, was accepted and paid for iu 1908 and 1909, and does the department propose to continue the system of purchasing these kinds of wood?
  - 6. Who bought these sleepers of spruce, birch, ash, poplar, &c., and who gave the orders to receive these kinds of sleepers, and who received them and stamped them for the Intercolonial railway?
  - 7. In 1909, did the department ask for tenders for sleepers of cedar, cyprus and hemlock? If so, who had these contracts and were these contracts granted to the lowest bidders, and what quantities were actually furnished by each contractor?
    - 8. What quantity of sleepers has been furnished up to this date-
      - (a) by the contractors for New Brunswick; and
      - (b) by the contractors for Nova Scotia and for the province of Quebec, respectively?
  - 9. Did the government by order in council authorize Messrs. Pottinger, Burpee or Taylor of Moncton, to purchase sleepers of spruce of all kinds and dimensions, and to cause those kinds of sleepers to be distributed in the district of Quebec, and notably in the district of River du Loup and Isle Verte?
  - 10. What price did the department pay for the sleepers of spruce, hemlock, cedar, birch and poplar, &c.? Who is the contractor therefor? Who received and inspected the said sleepers?
  - 11. Does the department know that these sleepers are absolutely unfit to be used in a railway, and that these sleepers are at the present time distributed along the Intercolonial railway to be used upon the main track?

12. How much a carload does the freight of sleepers seut from New Brunswick cost in the district of Quehec? Presented 3rd February, 1911.—Hon. Mr. Landry.

Not printed.

- 87. Return to an address of the Senate dated 22nd April, 1910, for:-
  - 1. Copies of all orders in council or of every order of the Department of Justice and of the Department of Public Works, and of all the correspondence exchanged between the government, the Departments of Justice and Public Works, the Bank of Montreal, the firm of Carrier & Laine, of Lévis, and all other persons, on the subjects of—
  - (a) The acquisition by the government of the property of the firm of Carrier & Lainé, at the time of the sale thereof by the sheriff in 1908;
  - (b) the subsequent expropriation, for purposes of public utility, of the same property, which had fallen into the hands of the bank of Montreal;
    - (c) its definite purchase from the Bank of Montreal by the government;
  - $\cdot$  (d) the appointment of an agent to represent the government at the sale by the sheriff:
  - (c) the appointment of experts for proceeding with the expropriation of the lauds in question;
  - 2. Copies of all reports submitted, directly or indirectly, to the government, or in its possession, by the experts hereiubefore meutioned, or by the arbitrators to whom the Bank of Montreal and the firm of Carrier & Lainé had suhmitted their differences, or by the various advocates or agents acting in the name and in the interests of the government,
  - 3. Copies of the various contracts entered into hetween La Banque du Peuple and the People's Bank of Halifax in 1905, between the government and the hank of Montreal, in 1909, between the government and Mr Ernest Cann, who had become the

lessee of the government, for a period of thirty years, of the lands and buildings formerly the property of Carrier & Lainé.

4. Copies of all documents whatsoever and of a correspondence relating to the various transactions aforesaid, and also a statement showing all the sums of money paid by the government with respect to such transactions, with the names of the persons to whom such sums were paid, and the amounts paid to each of them, and for what particular object. Presented 11th January, 1911.—Hon. Mr. Landry-

Not printed.

- 87a. Supplementary return to an address of the Senate dated 22nd April, 1910, for:-
  - 1. Copies of all orders in council or of every order of the department of justice and of the department of public works, and of all the correspondence exchanged between the government, the department of justice and public works, the bank of Montreal, the firm of Carrier & Lainé, of Lévis, and all other persons, on the subject of—
  - (a) The acquisition by the government of the property of the firm of Carrier & Lainé, at the time of the sale thereof by the sheriff in 1908;
  - (b) the subsequent expropriation, for purposes of public utility, of the same property, which had fallen into the hands of the Bauk of Montreal;
    - (c) its definite purchase from the bank of Montreal by the government;
  - (d) the appointment of an agent to represent the government at the sale by the sheriff;
  - (e) the appointment of experts for proceeding with the expropriation of the lands in question;
  - 2. Copies of all reports submitted, directly or indirectly, to the government, or in its possession, by the experts hereinbefore mentioned, or by the arbitrators to whom the bank of Montreal and the firm of Carrier & Lainé had submitted their differences, or by the various advocates or agents acting in the name and in the interests of the government.
  - 3. Copies of the various contracts entered into between La Banque du Peuple, and the People's Bank of Halifax in 1905, between the government and the bank of Montreal, in 1909, between the government and Mr. Ernest Cann, who had become the lessees of the government, for a period of thirty years, of the lands and buildings formerly the property of Carrier & Lainé.
  - 4. Copies of all documents whatsoever and of all correspondence relating to the various transactions aforesaid, and also a statement showing all the sums of money paid by the government with respect to such transactions, with the names of the persons to whom such sums were paid, and the amounts paid to each of them, and for what particular object. Presented 18th January, 1911.—Hon. Mr. Landry.

Not printed.

- 87b. Further supplementary return to an address of the Senate dated 22nd April, 1910, for
  - 1. Copies of all orders in council or of every order of the Department of Justice and of the Department of Public Works, and of all the correspondence exchanged between the government, the Departments of Justice and Public Works, the Bank of Montreal, the firm of Carrier & Lainé, of Lévis, and all other persons, on the subjects of—
    - (a) The acquisition by the government of the property of the firm of Carrier & Lainé, at the time of the sale thereof by the sheriff in 1908;
    - (b) the subsequent expropriation, for purposes of public utility, of the same property, which had fallen into the hands of the bank of Moutreal;
      - (c) its definite purchase from the Bank of Montreal by the government;

\$887—3 · 33

- $\left(d\right)$  the appointment of an agent to represent the government at the sale by the sheriff;
- (e) the appointment of experts for proceeding with the expropriation of the lands in question;
- 2. Copies of all reports submitted, directly or indirectly, to the government, or in its possession, by the experts hereinbefore mentioned, or by the arbitrators to whom the Bank of Moutreal and the firm of Carrier & Lainé had submitted their differences, or by the various advocates or agents acting in the name and in the interests of the government.
- 3. Copies of the various contracts entered into between La Banque du Peuple and the People's Bank of Halifax in 1905, between the government and the Bank of Montreal in 1909, between the government and Mr. Ernest Cann, who had become the lessee of the government, for a period of thirty years, of the lands and buildings formerly the property of Carrier & Lainé.
- 4. Copies of all documents whatsoever and of all correspondence relating to the various transactions aforesaid, and also a statement showing all the sums of money paid by the government with respect to such transactions, with the names of the persons to whom such sums were paid, and the amounts paid to each of them, and for what particular object. Presented 27th January, 1911.—Hon. Mr. Landry.

Not printed.

- 87c. Supplementary return to an address of the Senate dated 22nd April, 1910, for copies:-
  - 1. Copies of all orders in council or of every order of the Department of Instice and of the Department of Public Works; and of all the correspondence exchanged between the government, the Departments of Justice and Public Works, the Bank of Montreal, the firm of Carrier & Lainé, of Lévis, and all other persons, on the subjects of—
    - (a) The acquisition by the government of the property of the firm of Carrier & Lainé, at the time of the sale thereof by the sheriff in 1908;
    - (b) the subsequent expropriation, for purposes of public utility, of the same property, which had fallen into the hands of the bank of Montreal;
      - (c) its definite purchase from the Bank of Montreal by the government;
    - (d) the appointment of an agent to represent the government at the sale by the sheriff;
    - (e) the appointment of experts for proceeding with the expropriation of the lands in question;
    - 2. Copies of all reports submitted, directly or indirectly, to the government, or in its possession, by the experts hereinbefore mentioned, or by the arbitrators to whom the Bank of Montreal and the firm of Carrier & Lainé had submitted their differences, or by the various advocates or agents acting in the name and in the interests of the government.
    - 3. Copies of the various contracts entered into between La Banque du Peuple and the People's Bank of Halifax in 1905, between the government and the Bank of Monttreal in 1909, between the government and Mr. Ernest Cann. who had become the lessee of the government, for a period of thirty years, of the lands and buildings formerly the property of Carrier & Lainé.
    - 4. Copies of all documents whatsoever and of all correspondence relating to the various transactions aforesaid, and also a statement showing all the sums of money paid by the government with respect to such transactions, with the name of the persons to whom such sums were paid, and the amounts paid to each of them, and for what particular object. Presented 7th February, 1911.—Hon. Mr. Landry.

87d Return to an order of the Senate dated 9th March, 1911, for a return of copy of the contract entered into between the Bank of Montreal and the People's Bank of Halifax, in 1905, in connection with the financial situation and with the obligations of the firm of Carrier-Laine, a copy of which contract was handed over to the government at the time of the financial transactions concluded between the Bank of Montreal and the government in 1909. Presented 4th April, 1911.—Hon. Mr. Landry.

Not printed.

- 89. Return to an order of the House of Commons, dated 16th January, 1911, for a copy of all correspondence, letters, telegrams, reports and papers of every description between the liquidators of the Charing Cross Bank or of A. W. Carpenter or anyone on their behalf, and any member of the government, or official thereof, regarding the affairs of the Atlantic, Quebec and Western railway, the Quebec Oriental railway, or the new Canadian Company, limited. Presented 18th January, 1911.—Mr. Ames.

Not printed.

90. Return to an order of the House of Commons, dated 14th December, 1910, for a return showing how many wireless telegraph stations are owned by the government where are they located, the cost of each, and the revenue derived from each; what stations are leased, to whom they are leased, the amount of rental received each year and the period covered by said lease. Presented 18th January, 1911.—Mr. Armstrong.

92. Return to an order of the House of Commons, dated 16th January, 1911, for a copy of the mailing list, and names of all parties to whom the Department of Labour mailed or otherwise sent copies of the Labour Gazette during the year 1910, and of the names of all correspondents that report to the department on labour topics for the purposes of the Labour Gazette. Presented 18th January, 1911.—Mr. Currie (Simcoe).

Not printed.

- 93c. Return to an order of the House of Commons, dated 23rd January, 1911, for a return showing:—1. A copy of the report of the engineer who made the survey and estimate of the Back River or Rivière des Prairies, between the eastern end of the Island of Montreal and the Lake of Two Mountains, in the province of Quebec, in view of the dredging and deepening of said river.
  - 2. Details of work and expenditure to date in connection with the said work.
- 93.4. Return to an order of the House of Commons, dated 11th January, 1911, for a return showing during the seasons 1904, 1905, 1906, 1907, 1908, 1909 and 1910, what amounts were paid to Messrs. Dussault & Lemieux, dredging contractors, for work done by the International, the government dredge, leased to the said contractors, as far as the same can be ascertained. Presented 28th March, 1911.—Mr. Sharpe (Ontario).

Not printed.

94a. Return to an order of the House of Commons, dated 26th January, 1911, for a return giving the names of the lighthouse keepers on the St. Lawrence, between Quebec and Montreal, since the 12th April. 1887, and what yearly salary has been paid them respectively since that date. Presented 27th February, 1911.—Mr. Blondin.

Not printed.

# CONTENTS OF VOLUME 24.

- 95d. Copy of the Treaty of Commerce and Navigation between Great Britain and Japan, signed at London, 3rd April, 1911. Presented 20th April, 1911. by Hon. W. S. Fielding.
  Printed for sessional papers.
- 96. Return to an order of House of Commons, dated 11th January, 1911, for a copy of all applications, reports, records, correspondence, &c., in connection with the entry or cancellation proceedings in respect of the s.w. 4 section 10, township 38, range 15, west 2nd meridian. Presented 19th January, 1911.—Mr. Lake.......Not printed.

- 97. Minutes of conference held at Washington the 9th, 10th, 11th and 12th January, 1911, as to the application of the award delivered on the 7th September, 1910, in the North Atlantic coast fisheries arhitration to existing regulations of Canada and Newfoundland. Presented 19th January, 1911. by Sir Allen Aylesworth.

Printed for both distribution and sessional papers.

- 97b. (1) Copy of Hagne Tribunal Award concerning Atlantic fisheries given 7th September, 1910;
  - (2) Extracts from the special fishery regulations for the province of Quehec;
  - (3) Protocol 30 containing statements of the acts of Newfoundland and Canada objected to by the United States authorities.

On motion of Mr. Brodeur, it was ordered. That Rule 74 he suspended, and that the foregoing papers in connection with the "Hague Trihunal Award," he printed forthwith, and put under the same cover as the documents the printing of which was ordered at the sitting of the House on the 25th January, 1911. Presented 27th January, 1911, hy Hon. L. P Brodeur.

Printed for both distribution and sessional papers.

- 98a. Return to an order of the House of Commons, dated 11th January, 1911, for a copy of the lease made between the government and the Canadian Light and Power Company relating to the Beauharnois canal. Presented 20th January, 1911.—Mr. Lortie.

- 98b. Return to an order of the House of Commons, dated 23rd January, 1911, for a return showing in detail:—1. All sums paid by the concessionaires or grantees of the Beauharnois canal as rental or royalties upon the rights conveyed to them by the Crown on the Beauharnois canal, or paid by their assigns in the enjoyment of the said rights, since the concession.
  - 2. Of all sums paid or expended by the government upon the said canal since the date of the said concession.
  - Of all sums actually due the Crown by the grantees or assigns for the use of the said canal or in connection therewith. Presented 7th February, 1911.—Mr. Monk. Not printed.
- 98c. Supplementary return to an order of the House of Commons, dated 11th January, 1911, for a copy of all memorials, petitions and requests received by the government since last session advocating the enlargement of the Welland canal, as well as all memorials, petitions, resolutions, &c., favouring the construction of the Montreal and Georgian Bay canal. Presented 10th February, 1911.—Mr. Hodgins...Not printed.

- 100. Return to an order of the House of Commons, dated 14th December, 1910, for a return showing the cost of the Senate of Canada for each year since the fiscal year 1896. under the headings of number of senators, indemnity, travelling expenses, printing, staff, and contingencies. Presented 23rd January, 1911.—Hon. Mr. Foster.

Not printed.

- 102a. Return to an order of the House of Commons, dated 23rd January, 1911, for a return showing the average value for duty in 1896 and 1910, respectively, of the unit of each article or commodity enumerated in the schedules of the Customs Act, on which an advalorem duty was payable together with the rate of duty, the amount on which duty was paid, and the amount of duty paid for each year, with the totals, respectively. Presented 13th Fehruary, 1911.—Hon. Mr. Foster......Not printed.
- 103a. Return to an order of the House of Commons, dated 13th February, 1911, for a return showing the names and addresses of all sessional employees of the House of Commons, beginning with the session immediately subsequent to the elections of 1896, and for each year succeeding, to and including the present session, their duties in each case, their home addresses, their salaries, their transfers in each and every case to either other appointments of the sessional staff or to permanent employment in any department, the dates of each such appointment or transfer, upon whose recommendation each such appointment was made, their dismissals, if any, and the reasons therefor. Presented 28th March, 1911.—Mr. Sharpe (Ontario)......Not printed.

- 106a. Return to an order of the House of Commons, dated 13th February, 1911. for copies of any correspondence between the government of the Dominion, or any member thereof, and the provincial governments of Alberta and Saskatchewan, or either of

them, or any of their members, in reference to securing control by such provincial governments of the lands, timber, water powers, coal and other minerals, or any of the natural resources which exist within the respective boundaries of said provinces, other than school lands. Presented 20th February, 1911.—Mr. Lake....Not printed.

- 107. Return to an order of the House of Commons, dated 23rd January, 1911, for a copy of all correspondence between the Minister of Justice and the Attorney General of Nova Scotia in respect to the proposed change in the constitution of the Admiralty Court for that province. Presented 30th January, 1911.—Mr. McKenzie:.... Nat printed.

- 109b. Tariff relations between the United States and the Dominion of Canada, correspondence and statements, 1911. Presented 6th February, 1911, by Hon. W. S. Fielding.

  Printed for both distribution and sessional papers.
- 109c. Return to an order of the House of Commons, dated 27th February, 1911, for a return showing respectively, the total trade, the imports the exports for each year from 1846 to 1876, both inclusive, between the British North American possessions, except Newfoundland, and the United Kingdom, the United States of America and other countries respectively. Presented 14th March, 1911.—Mr. Barden. . . . . . Not printed.

- 110b. Return to an order of the House of Commons, dated 23rd January, 1911, for a copy of the full report and finding of the curator of the Farmer's Bank, up to the time of his appointment as liquidator of the same by the shareholders for the requisition of which, authority is given to the Minister of Finance by Section 122 of the Bank Act. Presented 1st February, 1911.—Hon. Mr. Foster.

Printed for both distribution and sessional papers.

110c. Return to an address of the House of Commons, dated 16th January, 1911, for a copy of all applications, petitions, letters, telegrams and other documents and correspondence, and all orders in council and certificates, relating to or connected with the establishment of the Farmer's Bank of Canada and its operations. Presented 1st February, 1911—Mr. Taylor (Leeds).

Printed for both distribution and sessional papers.

111. Return to an order of the House of Commons, dated 7th December, 1910, for a return showing the total cost to date of wharves at North Bay, Burks Falls and Maganatawan, Ontario; the name, date of appointment and salary of wharfinger in each case; the schedule of fees charged to public or others for use of wharf in each case; and a detailed statement of receipts for each wharf for the years 1907, 1908, 1909, giving name of party paying and for what. Presented 2nd February, 1911.—Mr. Arthurs.

Not printed.

- 113. Report of proceedings between the Farmers' Delegation and the Prime Minister and memhers of the government held in the House of Commons chamber on the 16th December, 1910, with corresponding preliminary to the meeting. Presented 6th Fehruary, 1911, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

- 113a. Report of proceedings of the deputation of fruit and vegetable growers and the Prime Minister and members of the government held in the House of Commons on the tenth Fehruary instant. Presented 21st February, 1911, by Rt. Hon. Sir Wilfrid Laurier. Printed for both distribution and sessional papers.
- 113b. Memorandum presented by the meat packers of Ontario and Quebec at a meeting held with members of the government on Monday, February 13, 1911. Presented 21st February, 1911, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

- 115. Return to an address of the Senate dated 17th January, 1911, calling for dates of publication and distribution to members of parliament of the English and French editions of the debates of the Senate and of the House of Commons from the year 1900 to date. Presented 25th January, 1911.—Hon. Mr. Landry.......Not printed.
- 115a. Return to an order of the Senate dated 17th January, 1911, for a copy of a return showing, year by year, from 1900, up to the present day, the date of the publication and distribution to members of parliament:—
  - 1. Of the English edition of the Journals of the Senate.

- 2. Of the French edition of the same.
- 3. Of the English edition of the Journals of the House of Commons.
- 115b. Return to an order of the Senate dated 17th January, 1911, for a copy of a return showing, year by year, from 1900, up to the present day, the date of the publication and distribution to members of parliament:—
  - 1. Of the English edition of the Jounrnals of the Senate.
  - 2. Of the French edition of the same.
  - 3. Of the English edition of the Journals of the House of Commons.

- 119. Return to an order of the House of Commons, dated 25th January, 1911, for a statement showing:—
  - 1. How much wheat was exported from Canada for the crop years ending 31st August, 1908, 1909 and 1910.
  - 2. How much wheat was exported from Canada through United States ports during 1908, 1909 and 1910, naming said ports, and amount exported from each port.
  - 3. How many terminal grain elevators are there at Port Arthur and Fort William, and what is the name of each.
  - 4. How much grain was shipped through each elevator at Port Arthur and Fort William during each year 1908, 1909 and 1910, and what are the names of the elevators respectively.
  - 5. How much wheat was exported from Canada during each crop year 1908, 1909 and 1910, not passing through the terminal elevators at Port Arthur and Fort William.
  - 6. How many men are employed by the government in connection with the terminal elevators at Port Arthur and Fort William, and what is the total salary paid the men per year Presented 7th February, 1911.—Mr. Schaffner.

Printed for sessional papers.

120. Return to an order of the House of Commons. dated 18th January, 1911, for a return showing how many appointments have been made by the government from the con-

stituency of South Grey since 1904, their names, to what positions appointed, and the schary or tenuneration in each case. Presented 9th February, 1911.—Mr. Blain.

Not printed.

- 121. Return to an address dated the 24th November, 1910, for copies of all orders in conneil, of all decisions rendered by the Military Council or some of its members, and of all correspondence concerning the gnard and escort of honour applied for in August and September last on the occasion of the visit in Quebec and Montreal of His Excellency Cardinal Vannntelli. Presented 10th February, 1911.—Hon. Mr. Landry.

Not printed.

122. Return to an address of the Senate dated 1st February, 1911, calling for copies of petitions presented by the Quebec Board of Trade, or of the resolutions adopted by it during November and December last, and transmitted to the Right Honourable the Prime Minister of this country, together with all correspondence exchanged on the subject of these resolutions. Presented 7th February, 1911.—Hon. Mr. Landry.

- 124. Return to an order of the Honse of Commons, dated 26th January, 1911, for a statement showing the amounts paid by the various departments of the government to the Sherwin-Williams Company for paints and other goods in the years 1906, 1907, 1908, 1909 and 1910. Presented 14th February, 1911.—Mr. Boyce.........Not printed.

- 125. Return to an order of the Senate dated 18th January, 1911, showing -
  - 1. In 1884, did a federal statute (47 Vict., ch. 78) confirm the legal existence of the Quebeo Bridge Company?
  - 2. In 1901, did not another federal statute (1 Edward VII, ch. 81), give birth to a company known as "The Quebec Terminal and Railway Company"?
  - 3. In 1903, after having been, for two years, completely distinct from one another, did not the two above-mentioned companies amalgamate, constituting a new company, to which a federal statute (3 Edward VII, ch. 177) gave the name of "The Quebec Bridge and Railway Company"?
  - 4. Was it not during the same year 1903, that were signed between the Quebec Pridge and Railway Company, the agreements which gave to the government the power to substitute itself to the bridge company and to complete at a certain date the colossal enterprise of the construction of a bridge over the St. Lawrence near Quebec?
  - 5. Was not this substitution of the government to a private company confirmed by federal legislation in 1908 at the time of the adoption by parliament of chapter 59 of 7-8 Edward VII?
  - 6. Under the said legislation, has the government passed an order in council enacting that it take hold of the whole of the undertaking, assets, properties and concessions of the said Quebec Bridge and Railway Company?
    - 7. When was this order in council passed?
  - S. What composes the whole of the undertaking, assets, properties and concessions of the said company mentioned in the laws?
  - 9. Has any part of the said whole of the undertaking, assets, properties and concessions of the company been transferred to the Grand Trunk Pacific Railway Company, or to the National Transcontinental Commission?
    - 10. What was the part so transferred?
  - 11. Does it comprise the bridge or some of the railway lines from the bridge and ending at the city of Quebec or at some place on the line of the Canadian Pacific railway, on the north, and of the Grand Trunk railway on the south of the river?

- 127. Return to au order of the Senate dated 17th January, 1911, for a return showing, in as many distinct columns:—
  - 1. The names of all departments obliged by law to lay before parliament reports of their annual operations.
    - 2. The date fixed by law for the laying of the said reports before parliament.
  - 3. The date on which the said reports have been laid for the fiscal year ending 31st March, 1910, stating whether it was the English or the French edition which was so laid.
  - 4. The date of the publication and distribution of the French edition of the said reports.
  - 5. The title of the reports which, up to the 15th January, 1911, nine months and a half, after the fiscal year ending the 31st March, 1910, have not yet been published in French.
  - 6. The titles of the reports which, up to the 15th January, 1911, twenty-one months and a half after the fiscal year ending the 31st March, 1909, have not yet been published in French. Presented 16th February, 1911.—Hon. Mr. Landry....Not printed.
- 128. Return to an order of the House of Commons, dated %6th January, 1911, for a return showing the date of incorporation, a copy of the Act of incorporation, and auy subsequent amendments thereto, all petitions, correspondence, applications and other papers or data asking for or relating to the grant of subsidy thereto, a copy of all contracts for construction, the subsidies granted and the several payments of the same, the dates of payment and the persons to whom cheques were issued therefor, a copy of engineer's reports and certificates on which payment was authorized in each case, the number of miles completed, the number now being operated, the number of miles still to be finished, the total cost to date and the estimated cost of completion, and the present condition of the road, in the case of the Atlantic, Quebec and Western Railway Company, the Quebec and Oriental R. R. Company and the new Canadian company. Also the shareholders, directors and officers of each of these companies, the capital subscribed and paid up by each subscriber, the amounts paid out each year to directors and officers as fees and salaries, the amount paid for promotion or other expenses, in detail, for each of the above companies. In the case of any mileage operated, the yearly revenues and working expenses. Presented 17th
- 128a. Supplementary return to an order of the House of Commons, dated 23rd January, 1911, for a return showing the date of incorporation, a copy of the Act of incorporation, aud any subsequent amendments thereto, all petitions, correspondence, applications and other papers for data asking for or relating to the grant of subsidy thereto, a copy of all contracts for construction, the subsidies granted and the several payments of the same, the dates of payment and the persons to whom cheques were issued therefor, a copy of engineer's reports and certificates on which payment was authorized in each case, the number of miles completed, the number now being operated, the number of miles still to be finished, the total cost to date and the estimated cost of completion, and the present condition of the road, in the case of the Atlantic, Quebeo and Western Railway Company, the Quebec and Oriental R. R. Company and the new Canadian company. Also the shareholders, directors and officers of each of these companies, the capital subscribed and paid up by each subscriber, the amounts paid out each year to directors and officers as fees and salaries, the amount paid for promotion or other expenses, in detail, for each of the above expenses. In the case of any mileage operated, the yearly revenues and working

- 128b. Further supplementary return to an order of the House of Commons, dated 23rd January, 1911, for a return showing the date of incorporation, a copy of the Act of incorporation, and any subsequent amendments thereto, all petitions, correspondence, applications and other papers or data asking for or relating to the grant of subsidy thereto, a copy of all contracts for construction, the subsidies granted and the several payments of the same, the dates of payment and the persons to whom cheques were issued therefor, a copy of engineer's reports and certificates on which payment was authorized in each case, the number of miles completed, the number now being operated, the number of miles still to be finished, the total cost to date and the estimated cost of completion, and the present condition of the road, in the case of the Atlantic, Quebec and Western Railway Company, the Quebec and Oriental R. R. Company, and the new Canadian company. Also the shareholders, directors and officers of each of these companies, the capital subscribed and paid up by each subscriher, the amounts paid out each year to directors and officers as fees and salaries, the amount paid for promotion or other expenses, in detail, for each of the ahove companies. In the case of any mileage operated, the yearly revenues and working expenses. Presented 28th March, 1911.-Hon. Mr. Foster........Not printed.

- 131. Return to an order of the Senate dated 9th February, 1911, for a return showing the importations by the Dominion from the United States in the year 1910 of the following commodities:—
  - 1. Beef and live cattle. 2. Sheep. 3. Poultry. 4. Ham. 5. Pork. 6. Bacon, 7. Flour. 8. Wheat. 9. Barley.

With the value of the different articles.

- 131a. Return to an order of the Senate dated 10th Februry, 1911, for a return showing in as many distinct columns, for the last five years, with an additional column containing the average thereof:—
  - I. The quality and value of each of the following products.—

1. Live stock. 2. Pork and bacon. 3. Potatoes. 4. Eggs. 5. Butter. 6. Cheese. 7. Maple sugar. 8. Fruit. 9. Garden products. 10. Hay. 11. Wheat. 12. Flour. 13. Oats. 14. Other natural products. 15. Agricultural implements.

Of Canadian origin exported to:—(a) the United States; (b) the English market; (c) other countries.

- 134. Return to an order of the House of Commons, dated 15th December, 1909, for a copy of all papers, letters, telegrams, documents, petitions, reports and correspondence with reference to, or in any way concerning the appointment of a government weigher at Montreal. Presented 20th February, 1911.—Mr. Armstrong........Not printed.
- 136. Return to an order of the House of Commons, dated 30th January, 1911, for a return showing the total quantity of coal delivered to ship at Picton, in each year during which the SS. Stanley has been engaged in the winter service between Prince Edward Island and Nova Scotia, and the cost thereof.

136a. Return to an order of the House of Commons, dated 30th January. 1911, for a return showing the total quantity of coal delivered to ship at Picton, in each year during which the SS. Earl Grey has been engaged in the winter service between Prince Edward Island and Nova Scotia, and the cost thereof.

136b. Return to an order of the House of Commons, dated 30th January, 1911, for a return showing the total quantity of coal delivered to ship at Pictou, in each year during which the SS. Stanley has been engaged in the winter service between Prince Edward Island and Nova Scotia, and the cost thereof.

- 137a. Return to an address of the House of Commons, dated 5th December, 1910:-
  - 1. For a return showing the contract between the Quebec Bridge and Railway Company and M. P. Davis, dated July 27, 1903, providing for the construction of the lines of railway connecting the Quebec bridge with the city of Quebec and with certain other railways, the tender upon which the contract was based, and the estimated cost at the time of the contract based upon the scheduled quantities and prices.
  - 2. The agreement transferring this undertaking to the government, and of all correspondence and documents in connection therewith and of the order in council of 16th February, 1909, transferring it to the commissioners of the Transcontinental railway.
    - 3. Aud stating the mileage of the lines of railway embraced in this contract.
  - 4. The snms paid on account by the Quebec Bridge and Railway Company, and the purposes for which it was paid.
  - 5. The amount owing or claimed by the contractor for work done or material supplied up to the time the undertaking was taken over by the government, and the date of taking it over, the amount paid or undertaken to be paid by the government to the company or its members, the estimated amount at that time required to complete the work, the amount the government or commissioners have since paid and the estimated amount yet to be paid.
  - 6. And setting forth the reasons for taking the undertaking out of the hands of the Bridge and Railway Company and for transferring it to the commissioners.
- 137c. Return to an order of the House of Commons, dated 10th April, 1911, for a copy of all correspondence between the Department of Labour and various labour organizations, 8887—4

- 138. Report of the Ottawa Improvement Commission for the fiscal year ending 31st March, 1910, &c. Presented 21st February, 1911, by Hon. W. S. Fielding. . . . . . . Not printed.
- 140. A return to an address of the Senate dated 20th January, 1911, calling for copies of all orders in council and ordinances, and of all correspondence exchanged between the parties interested in the subject:—
  - 1. Of the lease, before 1896, to Mr. Georges Tanguay of a military property belonging to the government and situated on des Ramparts street at Quebec.  $\cdot$
  - 2. Of the requests made by other persons at that time, to purchase or lease the property in question.
  - 3. Of the sale of the same property to the same Georges Tanguay, agreed to by the present government about 1897. Presented 21st February, 1911.—Hon. Mr. Landry.

    Not printed.
- 141. Return to an order of the House of Commons, dated 7th December, 1910, for a statement showing the disposition made by the government during the past year of the following:—public lands, timber limits, mineral areas, water-powers and fishing rights. Presented 22nd February, 1911.—Mr. Sharpe (Lisgar)......Not printed.
- 141a. Snpplementary return to an order of the House of Commons, dated 7th December, 1910, for a statement showing the disposition made by the government during the past year of the following:—public lands, timber limits, mineral areas, water-powers and fishing rights. Presented 19th May. 1911.—Mr. Sharpe (Lisgar)...Not printed.

- 144. Return to an order of the House of Commons, dated 23rd January, 1911, for a return showing:—1. All grants, leases, licenses, and concessions given to individuals or corporations of water power rights or privileges on the Winnipeg river at present in force.
  2. The names and descriptions of such power sites.
  3. The terms and conditions upon which they are respectively beld.
  4. The dates upon which these powers

or privileges were respectively given. 5. What constitutes forfeiture. 6. What grants, leases or licenses have been forfeited. 7. The general rules and regulations, if any, applying to the giving and holding of the water-powers on this river. 8. The amount of development effected by the grantees or lessees respectively. 9. What title or interest the Dominion claims in the running water, the bed of the river, and the banks thereof. Presented 24th February, 1911.—Mr Haggart (Winnipeg).

Not printed.

145. Return to an order of the House of Commons, dated 5th December, 1910, for a return showing the total number of accidents on railways in Canada since 1st April. 1909, and up to date; the number of fatal accidents; the number on each railway, and the causes of the same. Also, the number of accidents on construction work, fatal or otherwise, on the Canadian Northern and the Grand Trunk Pacific railways, and the causes of the same. Presented 24th February, 1911.—Mr. Smith (Nanaimo).

Not printed.

- 148. Return to an order of the Senate dated 26th January, 1911, for a return showing, year hy year, since 1st July, 1896, up to date, the amounts paid to Mr. Louis Letourneau, of Quebec, or to the Quebec Preserving Company, by each of the departments of the government of this country. Presented 24th February, 1911.—Hon. Mr. Landry.

- 152a. Supplementary return to an order of the House of Commons, dated 6th February, 1911. for a copy of the curators' reports in the cases of all banks for which curators have been appointed. Presented 2nd May, 1911.—Hon. Mr. Foster.....Not printed.
- 154. Return to an order of the House of Commons, dated 30th January, 1911, for a return showing the total amount of money that has been expended on the Seybold huilding for alteratious and repairs, or in iustallation of elevators, heating apparatus or other fixtures, by the government during the term of the present lease, and also under the former lease, when used for census purposes.
- 155. Return to an order of the House of Commons, dated 20th February, 1911, for a copy of all applications made by employees of the North Atlantic collieries for a conciliation hoard within the past six months, and of all letters, telegrams, documents, statements and other papers and documents touching the same, or having any relation thereto, including all correspondence received by the government or any department of the government from the said North Atlantic collieries or from the employees thereof touching the matter aforesaid. Presented 27th Fehruary, 1911.—Mr. Maddin. Not printed.

- 158a. Return to an order of the Honse of Commons, dated 16th April, 1911, for a return showing the names of all persons in the province of New Brunswick who have received fishing bounties during the year ending 31st March, 1911, with the amount received by each. Presented 2nd May, 1911.—Mr. Daniel...................Not printed.
- 159. Return to an order of the House of Commons, dated 20th January, 1911, for a copy of all reports, correspondence, and documents, not already brought down, including report of survey made in 1909 of the harbour of Cape John and Tatamagouche Bay, in the counties of Pictou and Colchester. in the province of Nova Scotia, relating to the route of the winter steamers between Prince Edward Island and the mainland of Canada, and suggesting or recommending a change or changes on such route, and an increase in the number of trips daily of such winter steamers; also a copy of all similar papers, not already brought down, relating to the route of the summer mail steamers between Charlottetown and the mainland of Canada, and suggesting a change in that route and an increase in the number of trips daily; and also with regard to connecting such suggested route with a point on the Intercolonial railway. Also for a copy of all similar papers, if any, relating to or suggesting the ronte between Cape Traverse in Prince Edward Island and Cape Tormentine in the mainland, as a route for the winter and summer steamers. Also for a copy of all reports, papers and correspondence relating to additional or improved aids to navigation of the harbour of Charlottetown and entrance thereto and in Tatamagouche bay and harbour. Presented 6th March, 1911.-Mr. Warburton.......Not printed.

- 162. Return to an order of the House of Commons, dated 20th February, 1911, for a return showing:—1. The nature of the subsidy which has been granted to the Vancouver Dry Dock Company.
- 164. Statement of the affairs of the British Canadian Loan and Investment Company (Limited) for the year ended 31st December, 1910.

Also, a list of the shareholders on 31st December, 1910, in accordance with chapter 57 of 39 Victoria. Presented (Senate) 14th March, 1911, by the Hon. the Speaker.

- 165. Return to an order of the House of Commons, dated 27th Fehruary, 1911, for a return showing:—
  - 1. How many fisheries officers have been appointed in connection with the Ontario fisheries service within the last year?
  - 2. What are their names, their rank, and the limits territorially of the jnrisdiction of each?
  - 3. What is the salary of each, and what is the length of time or duration of such appointments?
  - 4. Do the duties of these officers in any, and in what cases duplicate the services if similar officers appointed by the Ontario legislature?
    - 5. Has anything been done, and what, to prevent the duplication of this service?
  - 6. What is the total revenue derived during the years 1909 and 1910 from fisheries for the province of Ontario, and what was the total expenditure?
    - 7. What will be the total expenditure for the year 1911?
- 165a. Return to an order of the House of Commons, dated 16th February, 1911, for a return showing how many wardens for the protection of fisheries were appointed in Victoria county. N.S., between July and December in the years 1906, 1907, 1909 and 1910.

- 270. Return to an address of the Senate dated 10th March, 1911, calling for a statement showing:—
  - 1. Who are among the judges of the Superior Court of the province of Quebec, those whose place of residence is fixed by the commission appointing them, and what is, for each of these judges, the place so fixed.

- 2. Who are the judges whose place of residence has been fixed or changed by order in council, and what is for each of these judges, the place of residence now fixed.
- 171. Return to an order of the House of Commons, dated 30th January, 1911, for a copy of all advertisements, letters, contracts, complaints, reports of inspectors and other correspondence regarding mail routes Trout creek to Loring and Powassan to Nipissing or Restoule. Presented 24th March, 1911.—Mr. Arthurs.......Not printed
- 173. Return to an order of the House of Commons, dated 27th February, 1911, for a return showing what ministers of the Crown were abroad in 1908, 1909 and 1910, on public business and on what business; what expenses were incurred by each while engaged on public business; what persons, if any, accompanied each minister on public business whose expenses were paid by the government, and the amount of such persons expenses. Presented 24th March, 1911.—Mr. Sharpe (Ontario)......Not printed
- 173. Return to a order of the House of Commons, dated 27th February, 1911, for a return showing the value, respectively, of the following products of the country, by provinces, during the years 1909 and 1910, agricultural products of all kinds, including field products of every kind, fruit, vegetables, live stock, &c., dairy products, &c.; timber of all kinds; minerals of all kinds; fish of all kinds; and manufactured goods of all kinds. Presented 24th March, 1911.—Mr. Macdonell..................Not printed.

- 176. Papers referring to the organization of a Secretariat, as follows:—1. Despatch to the governors of the self-governing colonies relative to the reorganization of the Colonial Office.
  - 2. Note on a visit to Australia, New Zealand and Fiji in 1909, by Sir Charles Lucas, K.C.M.G., C.B., assistant under secretary of state for the Colonies.
  - 3. Report of the Dominions Department of the Colonial Office for the year 1909-1910.
    - 4. Imperial Copyright Conference, 1910, memorandum of the proceedings.
    - 5. Further correspondence relating to the Imperial Conference.

- 179. Return to an order of the House of Commons, dated 16th March, 1911, for a return showing the average prices of hutter and of eggs in London, England, for the past five years in comparison with the prices, respectively, in eastern provinces, in Montreal, in Toronto, in Minneapolis, in Chicago, in Detroit, in Buffalo, in Bostou and in New York. Presented 30th March, 1911.—Mr. Sharpe (Ontario)......Not printed.

- 180. Return to an order of the House of Commons, dated 14th December, 1910, for a return showing the total payments made by the government to the Eclipse Manufacturing

Company, Limited, for year 1909-10, and how these contracts were let; the total payments made by the government to the Office Specialty Manufacturing Company, Limited, for year 1909-10, and how these contracts were let; the total payments made by the government to Messrs. Ahearn & Soper for year 1909-10, and how these contracts were let. Presented 3rd April, 1911.—Mr. Sharpe (Lisgar).....Not printed.

- 183. Return to an order of the House of Commons, dated 15th February, 1911, for a return showing all communications, telegrams, letters, petitions or plans relating to the rifle range at Bear River, N.S., received since January, 1909.
- 184. Return to an order of the House of Commons, dated 14th December, 1910, for a return showing what total amount has been annually expended in each province since 1880 hy the Department of Public Works for harhours and rivers, together with the annual totals of said expenditure for the whole of Canada; also that the Department of Public Works prepare and lay upon the Table of this House with this Return a map for each province, showing the location of all wharves, piers, breakwaters, &c., constructed or purchased by the federal government, and presently owned by the Dominion of Canada. Presented 6th April, 1911.—Mr. Ames......Not printed.
- 185. Return to an order of the Senate dated 22nd February, 1911, for:-
  - 1. Copies of all papers relating to the appointment of Martin Dickie to the command of the 76th Regiment of the counties of Colchester and Hants.
  - 2. Copies of all papers relating to the recommendation of Major J. L. Barnhill by Lieut. General Drury and others to the command of the said regiment.
  - 3. Copies of all documents relating in any way to the reasons or causes why the said Major Barnhill as the senior officer of said regiment should not have been appointed to the command of the same.
- 186. Return to an order of the House of Commons, dated 27th March, 1911, for a return showing the mileage of railways owned, controlled or operated in the United States by the Grand Trunk, the Canadian Pacific and other Canadian railway companies.
  - 2. Also the mileage of railways owned, controlled or operated by the United States railway corporations in Canada. Presented 10th April, 1911.—Mr. Rutan.

Not printed.

187. Return to an order of the House of Comm.ons, dated 3rd April, 1911. for a copy of all correspondence, declarations, telegrams, mailing lists, and other documents relating

- 190. Return to an order of the House of Commons, dated 6th February, 1911, for a return showing:—1. How many employees were connected with the Printing Bureau in 1896?
  - 2. The names of those employees connected with the Printing Bureau who were dismissed between 1896 and 1911, and the date of dismissal and the cause in each case?
  - 3. The names of those employees, who resigned or died between the years 1896 and 1911, and the date of resignation or death in each case.
- 192. Return to an order of the House of Commons, dated 27th March, 1911, for a copy of all the correspondence, contracts, assignments and other documents with regard to what is called the Percy Aylwin irrigation grant, granted to him under order in council dated 1st September, 1908. Presented 8th May, 1911.—Mr. Campbell..Not printed.

- 193. Return to an order of the House of Commous, dated 27th February, 1911, for a copy of all letters, papers, telegrams, documents, vouchers and pay sheets, showing the names of all persons who supplied materials or worked, and the prices and rates of wages, and sums paid to each, in connection with the construction of a wharf at Deep Brook, N.S. Presented 28th April, 1911.—Mr. Jameson......Not printed.

- 197. General rule and order of the Exchequer Court of Canada in regard to seals. Pre-
- 198. Return to an order of the House of Commons, dated 18th January, 1911, for a return showing how many aliens there are in the service of the government of Canada who are residing out of Canada, their names, nationality, the nature of the service, term of service, residence, and salary.
  - 2. The same information as to aliens now residing in Canada who have been in the service of the government of Canada for a period of three years or more, and the date and length of service.
  - 3. The same information in regard to aliens in the service of the government of any province or provinces of Canada. Presented 9th May, 1911.-Mr. Lennox.

- 199. Return to an order of the House of Commons, dated 1st May, 1911, for a return giving the names of the gentlemen appointed as judges by the present government of Canada since they came into power in 1896, the residences of these gentlemen at the time of appointments, the positions to which they were respectively appointed, and in each case where the appointee had a predecessor in the position, the time which the position was vacant. Presented 11th May, 1911.—Mr. Lennox.. . . . . . . . . . . . . . . Not printed.
- 200. Return to an order of the House of Commons, dated 16th January, 1911, for a copy of all correspondence, telegrams, reports, contracts, papers and memorials in the possession of the government relating to the establishment of a fast Atlantic service between Canada and any other com try; also with reference to an all red ronte, cable, or telegraph service, betyeen Canada and any other country, within the past fifteen
- 201. Return to an order of the House of Commons, dated 18th May, 1911. for copies of any correspondence between the government of New Brunswick, or any member or members thereof, and the government of Canada, or any member thereof, with reference to changing the Subsidy Act, 1910, with respect to a subsidy for a line of railway from Grand Falls in the province of New Brunswick to the city of St. John in the
- 202. Copy of report of Board of Conciliation and Investigation in the matter of the Western Coal Operators' Association and its employees. Presented 19th July, 1911, by Hon.
- 203. Return to an order of the Honse of Commons, dated 23rd January, 1911, for a return-1. Showing in tons the east-bound and the west-bound traffic on the Intercolonial railway for the five years ending 30th June, 1910.
  - 2. The miles of main trunk line and branches of the Intercolonial railway in each province through which it passes, distinguishing the trunk line from the branches.
  - 3. Showing in tons the west-bound traffic originating in each of the maritime provinces during the period of five years ending 30th June, 1910. Presented 18th July,
- 204. Return to an order of the House of Commons, dated 13th March, 1911, for a copy of all correspondence, telegrams, &c., during the past twelve months between Mr. E. J. Walsh, C.E., and the Minister of Department of Railways and Canals in regard to the Newmarket Canal. Presented 18th July, 1911.-Mr. Wallace . . . . . Not printed

# CONTENTS OF VOLUME 24-Concluded.

- 205. Return to an order of the House of Commons, dated 20th April, 1911, for a return showing:—1. The quantity of bituminous coal imported into Ontario transhipped into other provinces in 1910.
  - 2. The quantity of bituminous coal imported into Ontario in 1910 imported by the different railway companies.
  - 3. The quantity and value of slack coal imported into Outario in 1910, what portion of this slack coal was transhipped to other provinces, and what imported by railway companies. Presented 18th July. 1911.—Mr. Macdonell......Not printed.

- 208. Minutes of Proceedings of the Imperial Conference, 1911. Presented 27th July, 1911, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

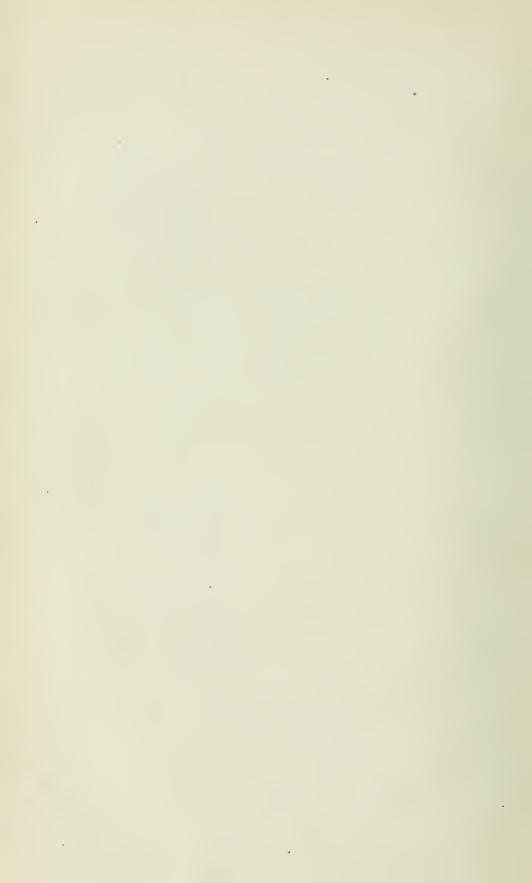
208a. Despatches, &c., relative to the simultaneous publication of memorandum of conference on the subject of the status of Dominion navies. Presented 27th July, 1911, by Rt. Hon. Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

- 210. Text of Pelagic Sealing Treaty signed at Washington, 7th July, 1911. Presented 27th July, 1911, by Rt. Hon. Sir Wilfrid Laurier.......Printed for sessional papers.











# DEPARTMENT OF PUBLIC WORKS, CANADA

# NELSON RIVER

# REPORT

TPON

# RECONNAISSANCE SURVEY

SEPTEMBER-OCTOBER, 1909



OTTAWA PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY

[No. 19b—1911.]



CHIEF ENGINEER'S OFFICE.
OTTAWA, February 1, 1910.

SIR,—I have the honour to transmit herewith a report by Mr. A. R. Dufresne, District Engineer, inclosing one by his Assistant, Mr. E. S. Miles, on an investigation made of the Nelson river, Man., to determine the practicability of establishing navigation on that river between Lake Winnipeg and the Hudson bay.

The examination made was one of the nature of a rapid reconnaissance, but Mr. Dufresne states that sufficient information has been obtained to show that any undertaking with a view to establishing navigation on the Nelson river would be a work of considerable magnitude.

I have the honour to be, sir,

Your obedient servant,

EUGENE D. LAFLEUR,

Chief Engineer.

Jas. B. Hunter, Esq.,

Deputy Minister,

Dept. Public Works.

Ottawa.



Department of Public Works, Canada,

District Engineer's Office,

Winnipeg, January 27, 1910.

Sir.—I beg to transmit herewith a report, in duplicate, of an investigation made of the Nelson river, to determine the practicability of establishing navigation on that river, between Lake Winnipeg and the Hudson bay.

This work was authorized by you in instructions contained in your telegram of August 20, 1909. The investigation has been entrusted to Mr. E. S. Miles, who was detached temporarily from the St. Andrews lock staff for this purpose.

Owing to the short time at our disposal, before the end of navigation, the examination in the field was of the nature of a rapid reconnaissance.

Notes have been made, from a general observation of the character of the river, and details worked out for some probable locations of structures.

Sufficient information has been obtained to show that, any undertaking having in view the establishing of navigation on the Nelson river, is one of considerable magnitude.

With the exception of a few diversions in the upper part of the river, it would appear that improvement would be necessary on the lines of raised levels by means of dams with locks in conjunction.

Owing to the width and volume of discharge of the river, dam construction would be expensive. For reasons mentioned above, an approximation of the cost of this undertaking is not possible, but it may be of interest, as an object of comparison, to note that the length of the river and total lift, 430 miles and 700 feet lift, are nearly the same as in the proposed Georgian bay canal; 440 miles and 758 feet lift.

I beg to remain, sir.

Your obedient servant.

A. R. DUFRESNE,

District Engineer.

Eugene D. Lafleur, Esq.,
Chief Engineer,
Dept. Public Works,
Ottawa, Canada.



#### NELSON RIVER INVESTIGATION.

DEPARTMENT OF PUBLIC WORKS CANADA.

DISTRICT ENGINEER'S OFFICE.

WINNIPEG, January 14, 1910.

Sir.—I have the honour to submit the following report of reconnaissance work done on the Nelson river.

As instructed by you, I left Selkirk, with one assistant, on August 23, 1909, on ss. Wolverine, arriving at Warren's Landing on August 26 and at Norway House on August 27.

The limited time for travelling, before the freeze up, made it impossible for us to do more than rapid reconnaissance work. One aneroid was left at Norway House, to be read three times a day, while another was taken with the party. A hand level, fixed to a light tripod, was used to obtain the difference in water elevations at all rapids and falls, and a box-sextant was used for triangulation purposes. A small current meter was also taken along for gauging the river.

The party, made up of my assistant two Indians and myself, with one canoe, left Norway House on August 28 and travelling by the East Branch, reached Cross lake on August 30 and Split lake, 243 miles from Warren's Landing, on September 6.

The Norway House Indians not knowing the route from Split lake to the bay, other Indians had to be engaged and the Norway House Indians returned home. As the Indians at that time of year were leaving for their winter hunting grounds, it was very hard to secure men, but three were finally engaged on condition that we would return by way of Split lake and not by way of Oxford House.

We left Split lake on September 8 and arrived at the month of the Nelson river on September 15, having been delayed two days by bad weather.

On September 16 and 17 a visit was paid to York Factory where we found the stock of provisions, in the Hudson's Bay Company's Store, very low; the ship from England not having arrived up to that date, and indeed the officer in charge had given up all hope of seeing her this season.

While at York Factory, the ancroid with the party, was compared with the barometer there, and a copy of the readings since September 1 obtained.

The mouth of the Nelson river was left on September 18 and Split lake was reached on September 29. Having obtained fresh men, we left Split lake on October 1 and arrived at Cross lake on October 9, having stopped to get a gauging of the river below Senewesk lake.

A visit was paid to Whisky Jack Portage on October 10 and leaving the north end of the Portage on October 11, we arrived at Norway House on October 13, via East river. On October 14 we proceeded to Warren's Landing and on October 15 left Warren's Landing on ss. City of Schlick and arrived in Selkirk on October 17, 1909.

Distances from Warren's Landing were obtained from Otto Klotz's survey of 1884. The elevation of Split lake is 470 feet above mean sea level, actual levels, for which information I am indebted to Mr. Armstrong, Chief Engineer of the Hudson Bay Railway. Lake Winnipeg is about elev. 700 as obtained by barometer readings at Norway House and York Factory.

From the information gathered on the trip, I have obtained an approximate profile of the river, (see general plan), and come to the following conclusions:—

19b-1



Norway House-From River Entrance.



Norway House—Looking towards River.

General Description of River.

The rock formation from Lake Winnipeg to Limestone rapids, distance 230 miles, is principally granites. Limestone shows from the head of Limestone rapids, some 32 miles farther down the river. From that point to the mouth of the river no solid rock is seen, but the shores are strewn with small boulders and several deposits of gravel were seen. A very good deposit was noted on the north shore at the 'Extreme Head of Navigation.'

The country is all wooded, but the growth, excepting on the islands in the lakes, is all small. The growth is principally spruce with a mixture of birch and poplar in some places.

A gauging of the river just below Sepewesk lake was taken which gave the flow as 118,400 cubic feet per second. (See Plate No. 1). From information obtained from the Hudson's Bay Company's officers, the water was judged to be at the extreme low level. Old water marks were seen on the rock at that place, 4.75 feet higher. The difference between extreme high and extreme low water in this river, is never more than 6 feet.

No evidences of damage done by ice were noted, the bush in many places growing to the water's edge.

The East river, from Lake Winnipeg to Pipestone lake, is not well adapted for improvement, the channel in several places being as narrow as 150 feet, before Norway House is reached. The first rapid, Sea River Falls, is 43 miles from Warren's Landing and from this fall to Pipestone lake, the York boat route is through winding channels, in some places as narrow as 40 feet. The river is divided into several channels but none of any magnitude were seen.

The shores are low and rocky and not suitable for maintaining a higher level of water. The total fall from Lake Winnipeg to Pipestone lake is about 50 feet.

The west channel has already been navigated with a steam tug as far as the south end of Whisky Jack Portage.

The soundings taken in the channel, at present used in Cross lake, varied from 10 to 20 feet, the average being about 14 feet. The islands in the lake are from two to 14 feet above water and all wooded.

The outlet from Cross lake is blocked by two large islands, forming three distinct channels. The first rapid encountered on the channel, used as the York boat route, is Ebb and Flow rapid. The rapid is about 2.400 feet long and has a total fall of 11 feet. The channel at the head is about 500 feet wide and the banks are about 12 feet above the upper reach.

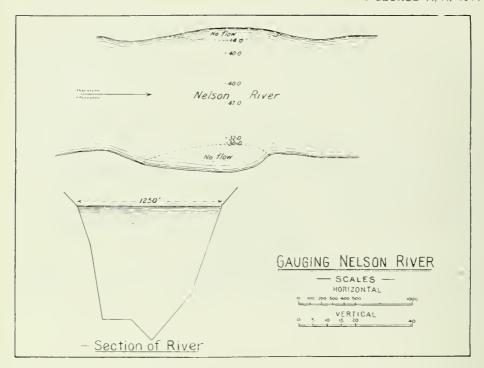
From the foot of Ebb and Flow rapids to White Mud falls, a distance of about four and a half miles, channel is 600 to 800 feet wide. No soundings were obtained less than 20 feet. The banks show 10 to 12 feet, and the current is not too strong for navigation.

White Mud falls are located at a bend in the river, where the channel is also divided by an island. The total drop is 30 feet.

From White Mud falls to Bladder rapids is a distance of eight miles. Channel about 500 feet wide, with deep water (over 20 feet). Side banks show 15 to 25 feet, gradually rising behind. In several places between these two rapids, the current exceeds four miles an hour. The total fall in Bladder rapids is 10-6 feet, and at this place the waters of the Nelson river are all in one channel for the first time.

About two miles below Bladder rapids the river divides, the west channel flowing to Sepewesk lake, by way of Duck lake. The York boat route follows the East river; the first rapid encountered being Over the Hill rapids which has a fall of 95 feet. The distance from Bladder to Over the Hill rapids, is about seven miles. All soundings taken were over 20 feet, the current in places exceeding four miles an hour. Side banks rocky, and from 25 to 35 feet high.

 $19b-1\frac{1}{2}$ 



GAUGING NELSON RIVER, OUTLET TO SEPEWESK LAKE.

Wednesday, Oct. 6, 1909.

Distance from Initial Point.	Depth.	Depth of Obser-	Time in Seconds.	Number of Revolutions.	Mean.	Revolutions per Second.	Velocity per Sec. in Feet.	Mean Velocity.	Width. Mean Depth.	Mean Velocity at Mean Depth.	Area.	Dis- charge.
Deg. Min.	Ft.	Ft.							Ft.		Sq. ft.	Cub. feet per sec.
16 31	30	4	30	()	0	0	0					
18 02	32	-4	30	27-55-39	40.3	1 343	78	.39	24 31	:342	744	254:4
37 32	47	3	30	285-300-270	285	9.5	5 52	3.12	318 39 5	2 763	12561	34506-0
46 43	40	3	30	295-255-258-276	27.1	9 033	5:248	5 384	173 43 5	4 723	7525 5	35542 9
54 12	40	3	30	210 - 202 - 200	204	6.8	3:95	4.509	266 40:	4 031	16640	42921:7
62 04	14	3	311	0	0	()	0	1 975	110 27	1 732	2970	5144 0
Total Discharge												

N.B. Old water marks, on rock, 4.75 ft. higher.



Sea River Falls. (West Fall.)





Typical Scenery through East Branch, south of Pipestone Lake

1 GEORGE V., A. 1911

Red Rock rapids is the next large rapid, distant from Over the Hill, about three and one-half miles. A small chute of two feet fall is also found between the two. All soundings taken were over 20 feet, the channel is wide and the banks about 35 feet high. The total fall in Red Rock rapids is 10-5 feet.

Below Red Rock rapids, the channel is wide (about 2,000 feet) and all soundings were deep. The fall in the next rapid, Chain of Rocks, is 1.2 feet, the channel being

blocked by a chain of small islands.

Leaving Chain of Rocks rapids, the channel gradually expands into Sepewesk lake. Cut clay shows on both sides from a few feet above water. East bank, about 50 feet high. Sepewesk lake is very picturesque, being dotted with small islands 10 to 12 feet above water and covered with evergreens. Some of the spruce on these islands are as large as 15 inches at the butt.

About half way down the lake, where the islands are numerous, the current becomes very strong, and again at the east end of the lake the current is bad.

The shallowest sounding obtained was 15 feet. Islands all show rock. At the east end of Sepewesk lake the Nelson river again comes into one channel of about 2,000 feet in width.

At the entrance to the river, the banks show +15 to +20 feet with higher ground behind, rock with clay on top on both shores. Three or four miles further down, the banks are higher, the west shore being principally rock, the east shore showing more clay, both running up to 50 or 60 feet. The soundings were all deep, but the channel in some places narrows to about 800 feet, and here the current exceeds four miles an hour.

From the outlet of Sepewesk lake to Devils Narrows rapids is a distance of 55 miles. Devils rapids and Devils Narrows rapids have a total fall of 5-7 feet. Devils rapids run through a rock gorge of about 400 feet at narrowest part.

From Devils rapids to Grand rapids, a distance of 16 miles, the water is deep, the banks are rocky on the west shore and clay on the east. Both shores are high  $(\pm70')$  a short distance back from the water.

At Grand rapids, the total fall is 20 feet and is found at a sharp bend in the channel. From Grand rapids to Chain of Islands rapids, the distance is four miles. The banks just below Grand rapids run up to about 70 feet on the west, the east shore being irregular, while just above Chain of Islands rapids the banks are rocky and about 30 feet above water. The fall in Chain of Islands rapids is 4-6 feet and about two miles below the rapid, the river expands into Split lake. The shallowest sounding obtained in the lake was 18 feet, but bad currents are found at the east end near the outlet. The Hudson's Bay Company's post is located on a sandy point (+35) about half-way down the lake, where the canoe route to Churchill leaves the Nelson. The islands in the lake all show rock.

About three miles from the outlet of Split lake the rapids begin again. The total fall, in rapids, to Gull lake is 29.4 feet, the distance being 15 miles. The shores, near the river, are low, but higher ground was found (+40) below Birthday rapids, a short distance back.

The current is strong all through Gull lake and at several places exceeds four miles an hour. All soundings taken were over 18 feet.

Gull Lake rapids are the first below Gull lake. At the beginning of the rapids the main channel is expanded and filled with islands, but narrows to about 2.000 feet farther down. The total fall is 67 feet.

From Gull rapids to the first pitch in Kettle rapids is a distance of about 17 miles, with a couple of small clintes occurring between. The banks show cut clay to about 50 feet.

At the head of Kettle rapids, the river is again divided by islands into several channels, but narrows in a couple of places before the foot of the rapids are reached.



Looking up Rapid.





Looking down Stream from Head of Rapid.

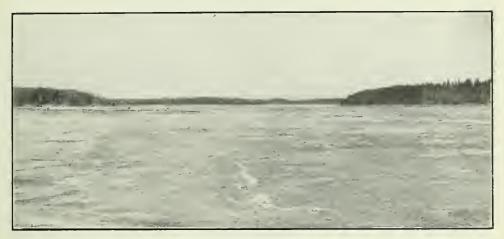
## WHITE MUD FALLS.



West Fall.



East Fall.



Looking Down Stream.



Looking Up Rapid.



Looking Across 1st Pitch.



Over the Hill Rapids.



Two Views



Red Rock Rapids.

The main banks of the river are good, and from the foot of Kettle rapids the river runs through cut clay banks, which in some places are as high as 120 feet. These high banks continue on the west shore to Hudson bay and on the east shore to Scal islands. Solid rock is always seen along the shores of rapids and many projections of the shore line show rock.

From Kettle rapids to the 'Extreme Head of Navigation' are two rapids, Long Spruce (fall +85.5') and Limestone (fall +85.2'). A great many rocky islands and reefs are exposed in Long Spruce rapids.

The point known as the 'Extreme Head of Navigation' is about 50 miles, up the river, from Seal islands, or 75 miles from Hudson bay. The current in this piece of river is very strong throughout, and although the shallowest water sounded was 12 feet, many gravel bars are to be found in the channel.

In the upper part of the river, the banks are generally low and the river is more suitable for diversions by means of canal and loeks, than by means of dams and raised water levels. Proposed locations for these diversions have been roughly investigated, the results of which are incorporated in the following sheets.

In the lower part of the river, which naturally lends itself to the lock in combination with dam and raised water level system, no details have been worked out owing to limited time at our disposal, beyond observations as to, height of banks, width of channel, fall in rapids, and soundings wherever possible.

#### Details of Location.

Playgreen take and the West river have already been navigated, as far as Whisky Jack Portage, by a tug drawing six feet of water and having a maximum speed of seven miles an hour. Several rock shoals are found in the lake at the south end, but not for any continuous distance. Even in Lake Winnipeg, a short distance from the mouth of the river, a small shoal is found in the channel over which a boat drawing nine feet eannot pass, without touching, when the water is low.

About six or eight miles from Whisky Jack a shoal is found extending across the channel. The deepest water found on this shoal is eight feet, but the bottom is gravel and boulders.

Two miles from Whisky Jack, the channel is narrow and the current is very strong but the water is deep and a boat with a speed of 10 miles an hour would have no difficulty.

The river, from the end of Playgreen lake to Cross lake, in which the rapids occur, was not seen by the writer, but Plate No. 2 shows a profile of ground between Playgreen lake and Cross lake. The distance is about four and a half miles and would be the shortest possible route from Lake Winnipeg to Cross lake. No rock was seen at the south end of the Portage, or above the elevation of Playgreen lake, at any point on the Portage. (The difference in elevation of the two lakes is between 45 and 50 feet.)

By raising the elevation of Cross lake about five feet, no dredging would be necessary and the current would be slack to the head of Ebb and Flow rapids.

To do this, a dam would be constructed at the head of Edd and Flow rapids and also in the other two channels leading from Cross lake, just above the first rapid in each.

Plate No. 3 shows Ebb and Flow rapids. From information obtained, the writer judges the other two channels to be about the same size.

A diversion of about 2,500 feet would here be necessary together with the lock and dams.

From Ebb and Flow rapids to White Mud falls no improvement is necessary and it is therefore not necessary to dam the river above the rapid.

Plate No. 4 shows the location.



Chain of Rocks Rapids. (From below Fall.)



Chain of Rocks Rapids. (From above Fall.)



Typical View Se-pe-wesk Lake.





Two Views of River between Se-pe-wesk Lake and Devil's Narrows Rapids,



Devil's Narrows Rapids.



1st Pitch.



Looking Down Stream from Below 1st Pitch.



Looking Down Stream from North End of Portage.



Hudson's Bay Co.'s Store, Split Lake.



Cree Indians.



Birthday Rapids. Looking up River.



Foot of Gull Rapids.



1st Rapid above Moose Nose Point.



Long Spruce Rapids,



Looking up Limestone Rapids. From 1st Point above Limestone River. (High Banks are Cut Clay.)



Kettle Rapids.





Two Views of Clay Banks at 'Extreme Head of Navigation.'

## YORK FACTORY.



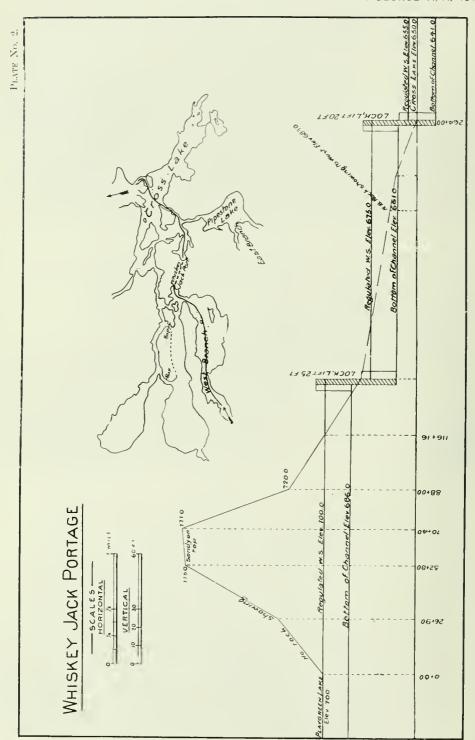
Main Depot.

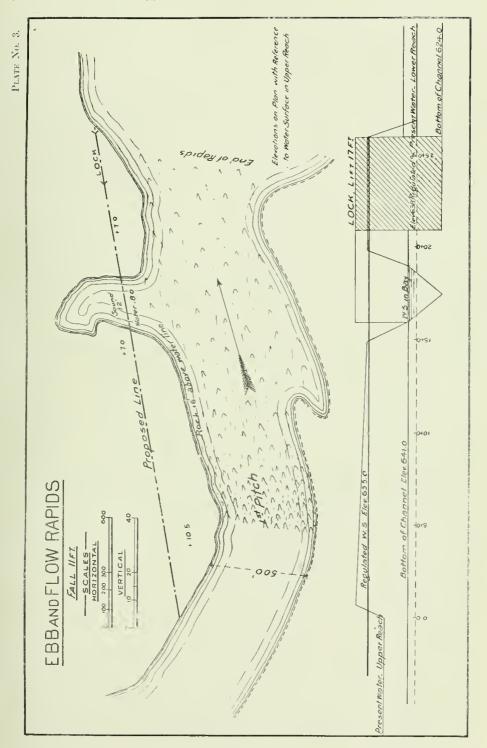


Old Cannon.



Church.





1 GEORGE V., A. 1911

 $\Lambda$  lock, with a diversion of about 3.200 feet would here be necessary for a good entrance at the lower end.

The currents from White Mud falls to Bladder rapids will necessitate a dam at the head of the latter.

The soundings obtained, about 500 feet from the head of the rapids, are deep but must be much shallower at the first pitch.

The diversion could here be so arranged that the excavation would just be sufficient to construct the dam.

The width of channel to be dammed is about 2,000 feet, with an island of 500 feet in the centre. (See Plate No. 5.)

If a dam at Chain of Rocks rapids (Plate No. 8) to raise the water about 35 feet were next constructed, this would flood out all rapids back to the foot of Bladders rapids. The rapids drowned out would be Over the Hill rapids (Plate No. 6), a small clute just below, and Red Rock rapids (Plate No. 7).

By this scheme, the waters of Sepewesk lake are reached and no rapids are encountered until Devils Narrows rapids are reached, a distance of 90 miles.

 $\Lambda$  dam and lock will probably be found necessary, somewhere in the river near the outlet of Sepewesk lake, to overcome the bad currents among the islands in the lake.  $\Lambda$  typical section of the river is the one used in the gauging section (Plate No. 1).

The total fall in Devils Narrows rapids and Devils rapids is about 5 feet, so if a dam were constructed just above Grand rapids (Plate No. 9) to maintain a rise of about 25 feet, Devils rapids would be drowned out and the current slackened in the river behind.

After leaving Grand rapids, one rapid, Chain of Islands, (Plate No. 10), has to be evercome before Split lake is reached. If the river was dammed just above Gull lake, (Plate No. 11), to raise the water at that point about 35 feet, all rapids from Split lake to that point would be eliminated; the elevation of Split lake would be raised about 12 feet, and Chain of Islands rapids would be drowned out.

Currents are found in Gull lake which will have to be eliminated, so the next dam should raise the elevation of Gull lake slightly.

The fall in the last large chute of Gull rapids is about 25 feet, so if a dam is built between this and the next fall above, the water could be raised sufficiently to eliminate the upper half of Gull rapids and raise Gull lake.

From the proposed dam to the end of the 25 foot chute is about 3,000 feet, so with an embankment forward, the next level could be reached with two locks.

The remainder of Gull rapids and the small rapids just above Moose Nose Point could be drowned out by a dam just below Moose Nose point. (Plate No. 13). The banks here are high and the width 1.800 feet.

No rock, however, shows at this point, although rock is seen about one mile farther up river, where the channel is wide and banks, near river, low.

If a dam was next constructed some place at the first Kettle rapids (Plate No. 14), a sufficient rise could be maintained to drown out all rapids as far back as Moose Nose Point.

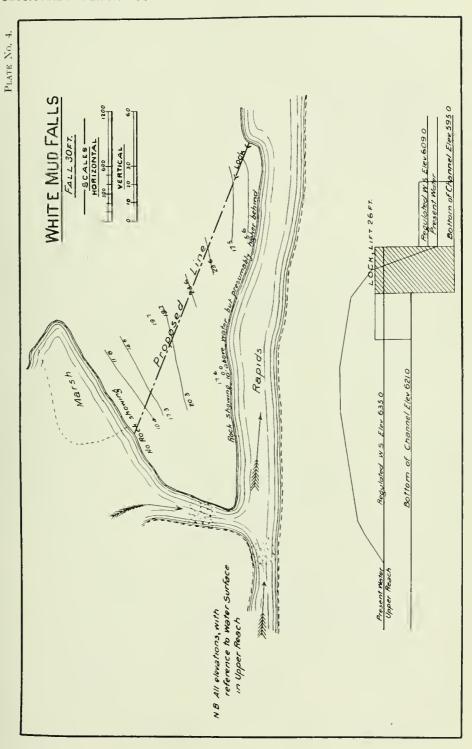
A rough idea of all locations from here to the month of the river, was all that was obtained.

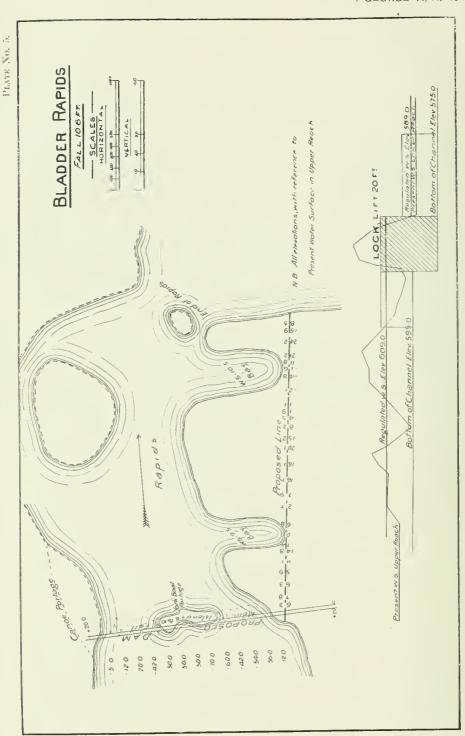
From the last dam to near the foot of Kettle rapids, all rapids could be eliminated by a dam just above the narrow part (Plate No. 15).

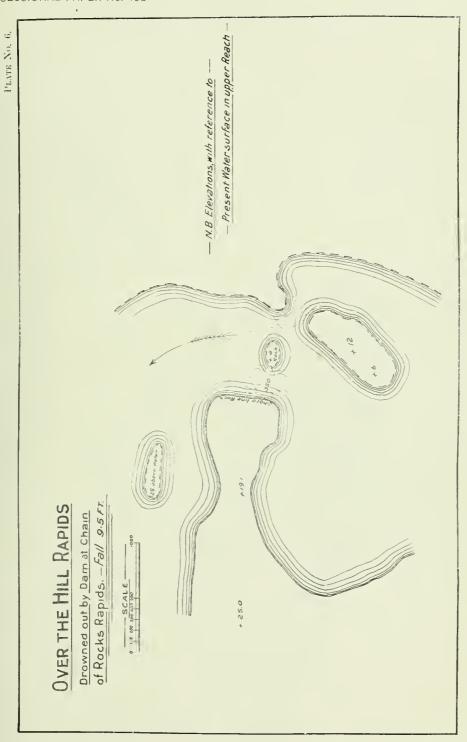
With an embankment about three-quarter miles forward, and another lock at the end, 54 feet could be overcome.

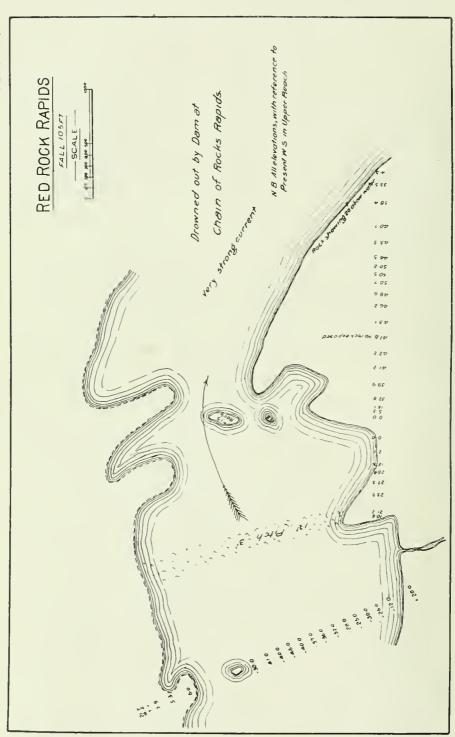
The next suitable location for a dam is at the head of Long Spruce rapids (Plate No. 16), and with an embankment of about 2,000 feet, 60 feet could be overcome.

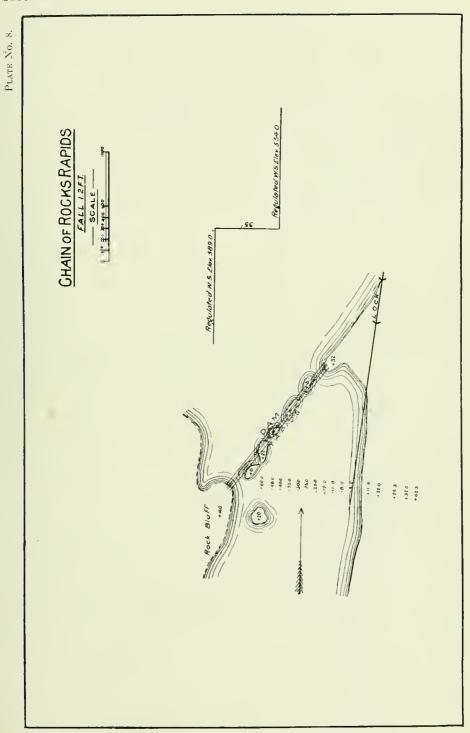
A dam could next be located in Long Spruce rapids. The average width of channel in this rapid is about 2,800 feet, rock shores all through and although no soundings were taken, average water cannot be deep as the current runs very swiftly.











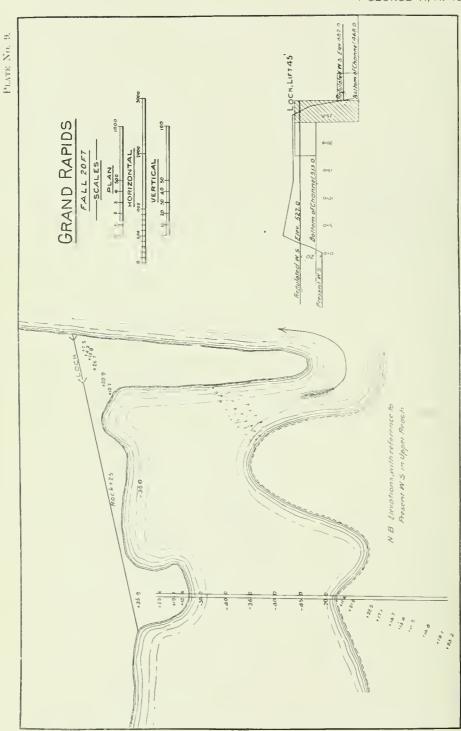
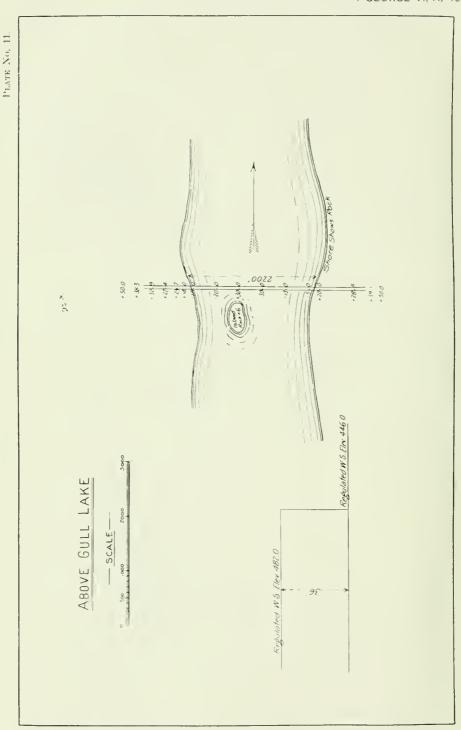
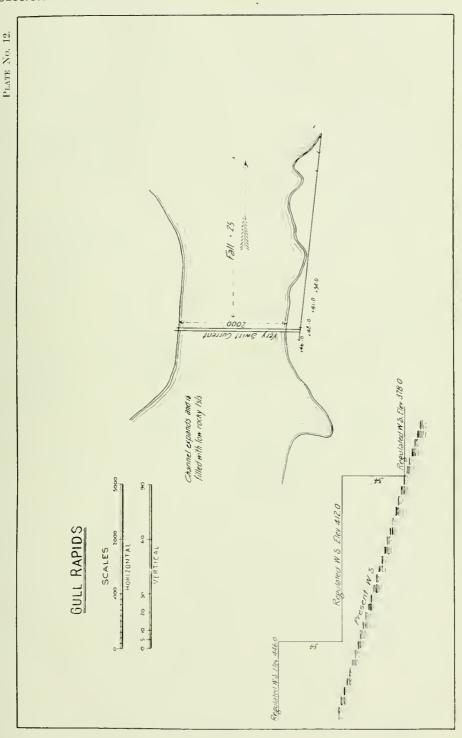
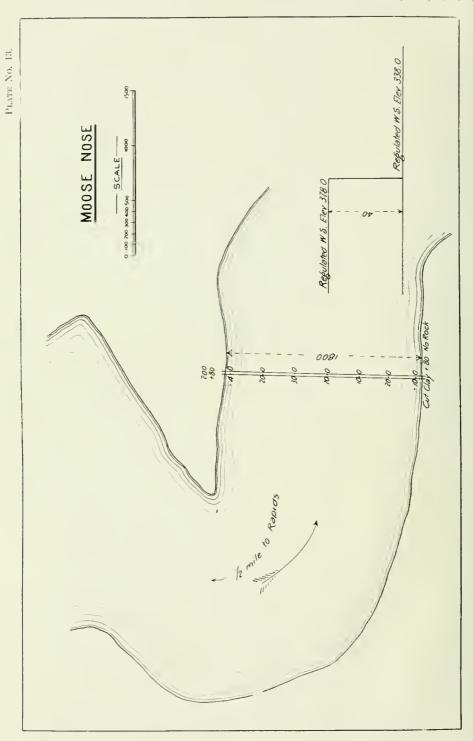


PLATE NO. 10. Drowned out by Dam above Gull Lake CHAIN OF ISLANDS RAPIDS FALL = 46







The next location chosen for a dam was above last Limestone rapid (Plate No. 18).

The width is 2,200 feet, and banks are good. Soundings are shown on the plate. The next dam would have to be placed about 'The Extreme Head of Navigation.' (Plate No. 19).

From this point to Seal islands, the river has a uniform fall of about one foot to the mile, but the current is very swift, necessitating at least two dams. Locations with soundings are shown at 'Head of Navigation,' Dear islands, and just below Seal islands, (Plates No. 20, 21 and 22).

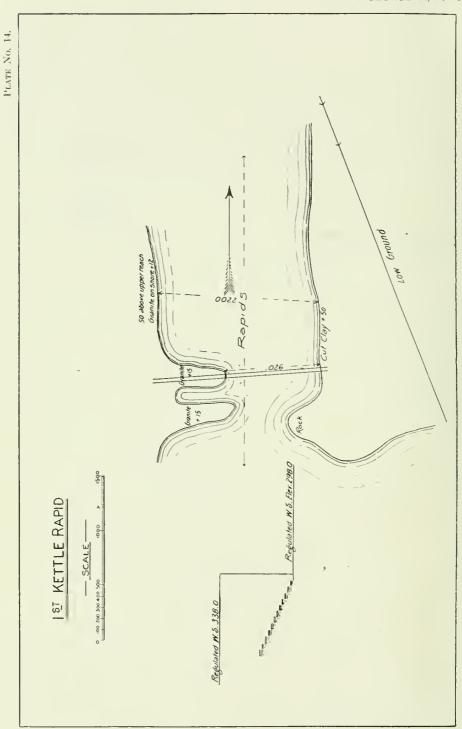
From Seal islands, the channel is irregular for about 15 miles farther down river, that is about half way from Flamborough Head to Beaeon Point. From that point to Hudson bay a good channel with 20 feet of water at low tide, has been found.

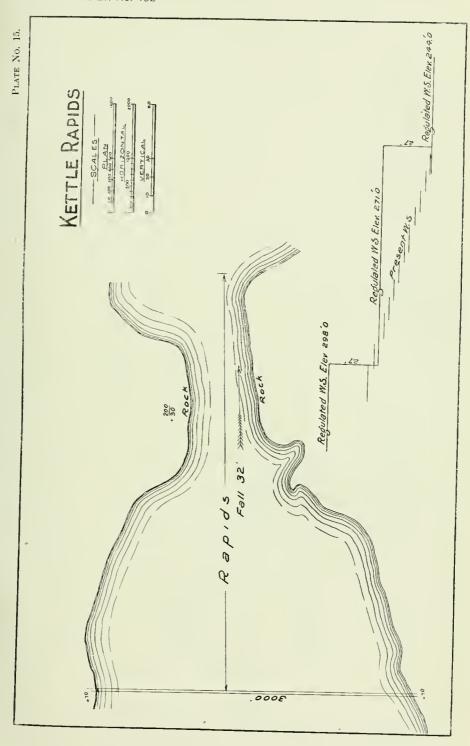
Respectfully submitted,

E. S. MILES, Assistant Engineer.

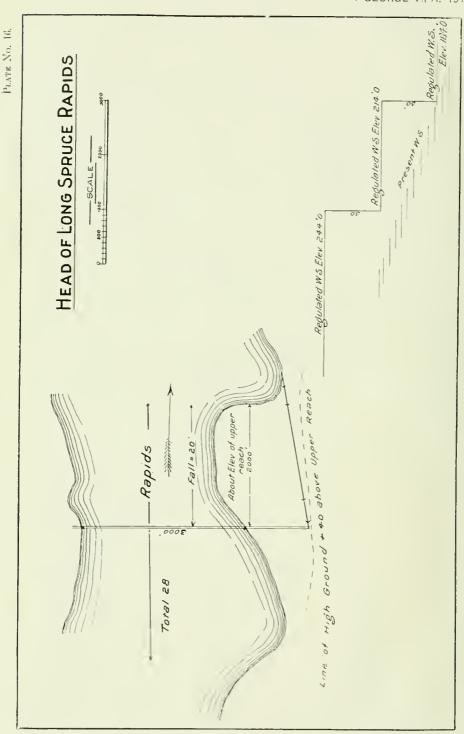
A. R. Dufresne, Esq.,

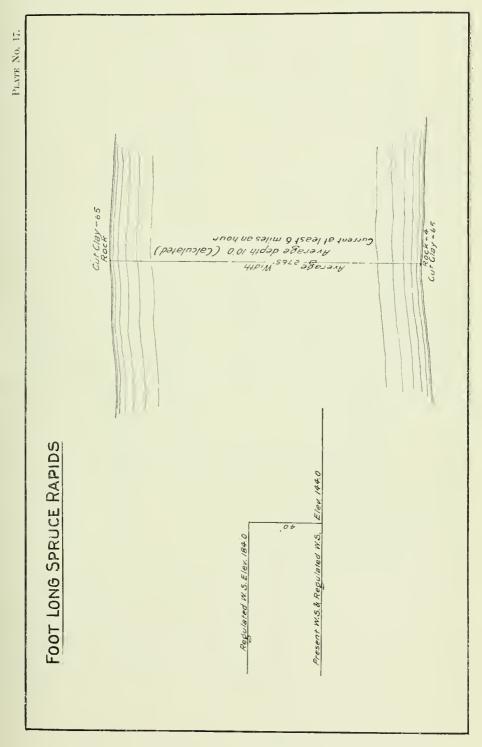
^ District Engineer,
504 Aslidown Bldg.,
Winnipeg, Man.



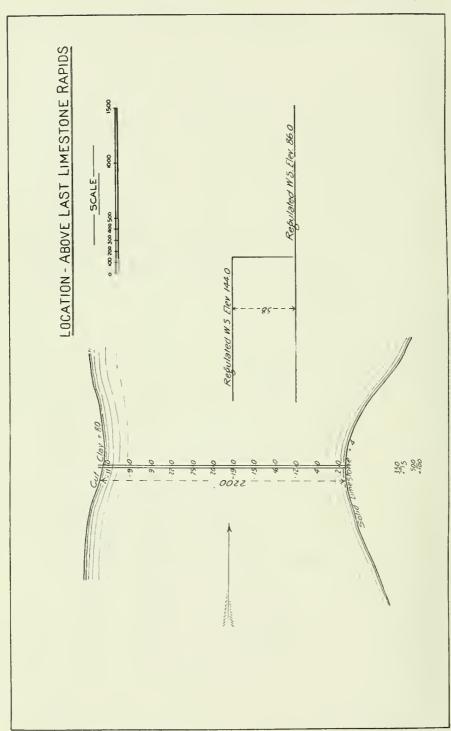


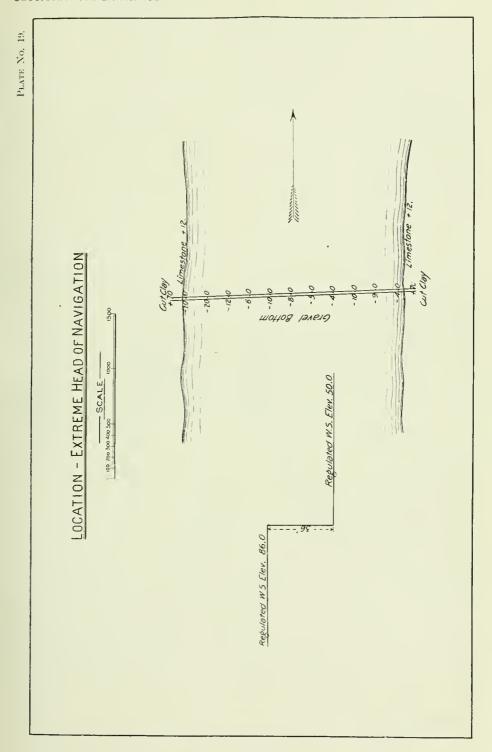
19b--3½

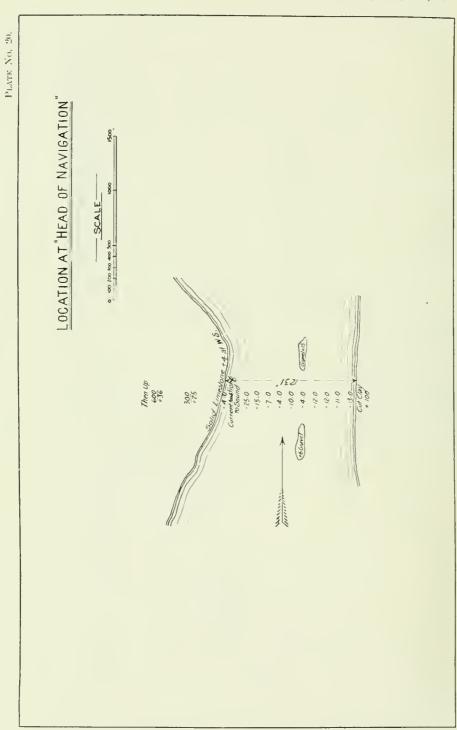


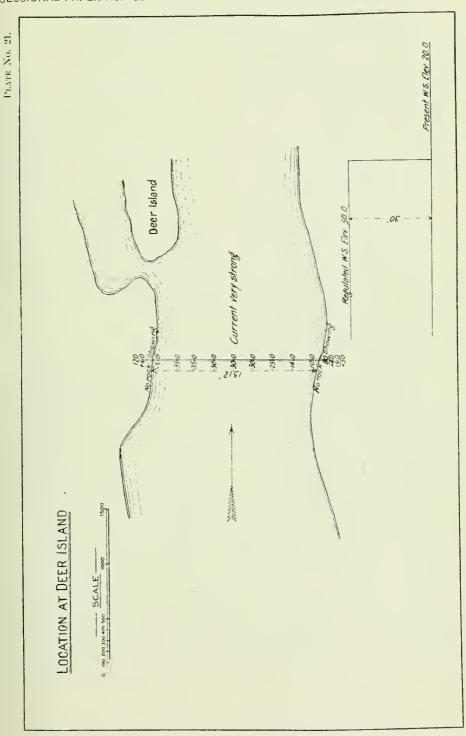


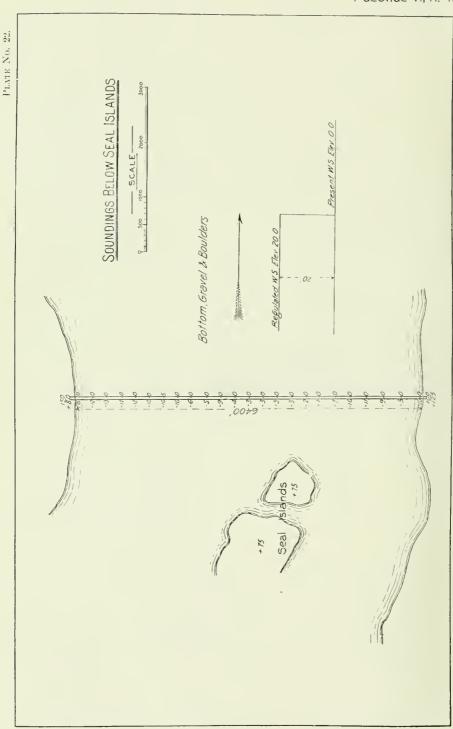












## SUMMARY OF LOCATION OF LOCKS AND DAMS

Whisky Jack Portage. Ebb and Flow Rapids. White Mud Falls. Bladder Rapids Chain of Rocks Rapids.	2	0	45 feet
Devil's Creek Grand Rapids. Above Gull Lake Gull Rapids. Moose Nose Point. Head Kettle Rapids. Foot Head Long Spruce Foot Foot Seat Limestone Rapid. Extreme Head of Navigation Deev Islands.	1 1 1 1 1 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 " 29 " 20 " 35 " 27 " 45 " 36 " 68 " 40 " 40 " 54 " 60 " 58 " 36 " 30 " 20 " 20 "

N.B.—Locks to be 280 x 45 feet and for 14 foot navigation at low water.

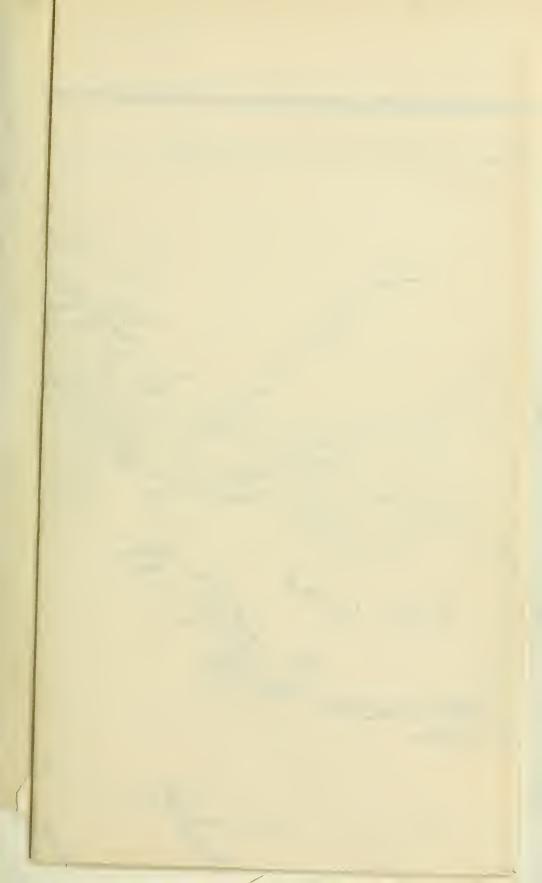
## TABLE OF DISTANCES FROM OTTO J. KLOTZ'S SURVEY OF 1884.

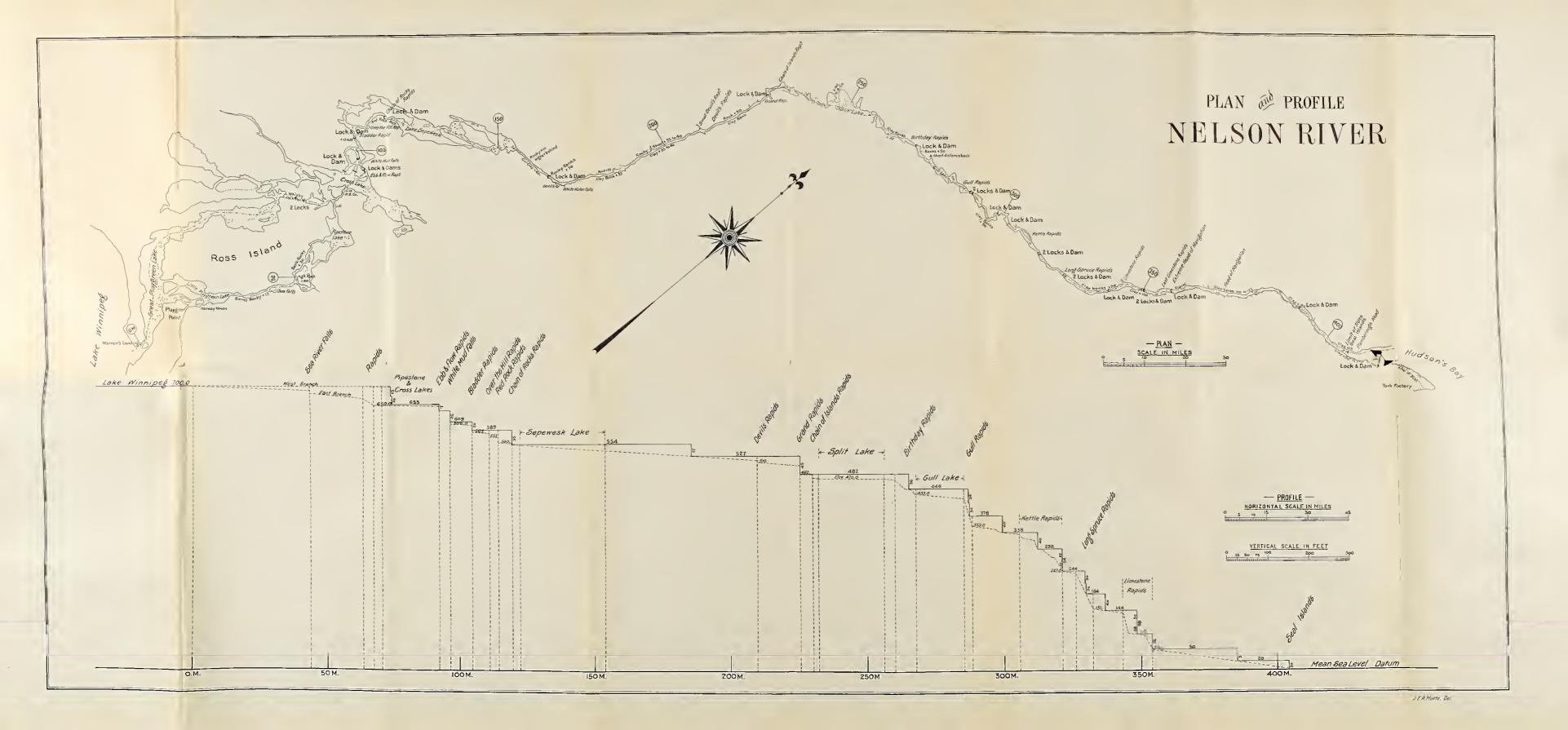
## DISTANCES FROM WARREN'S LANDING, LAKE WINNIPEG: -

oT	Playgreen Point	1‡ miles
		31
	Sea Falls	3ē u
	Pipestone Lake	11
	Cross Lake, Hudson Bay Co.'s post	11 n 21 n
	Ebb and Flow Rapids 9	οΪ
	White Mud Falls 90	23 H 33 H
	Bladder Rapids 10	03 II
	Forks to Duck Lake	45 H
	Over the Hill Rapids	1
	Red Rock Rapids	L 11
	Chain of Rocks Rapids 119	±à n nã
		9 <u>7</u> "
	Lake Sepewesk	24 14
	Davilly Charles	9 1
	Devil's Creek	8 11
	Devil's Rapids	9 10
	Grand Rapids	3를 n
	Chain of Islands Rapids	0를 ㅠ
	Split Lake	25 0
	Split Lake, Hudson Bay Co.'s post	j≨
	Gull Lake 277	5.5
	Gull Lake Rapids	53
	Kettle Rapids	) <u>;</u>
	Long Spruce Rapids	14
	Limestone Rapids	11
	'Extreme Head of Navigation'	53
	Seal Islands. 404	29 U 13 .
	Hudson's Bay	13 - 0 13
	42	発 ロー

## APPROXIMATE WATER ELEVATIONS AT POINTS ON NELSON RIVER.

Location.	Elevation.
Warren's Landing.	700 ft. above mean sea level.
Cross bake,	. 650 ft. n n
Foot of Bladder Rapids	586 ft. " "
Entrance to Sepewesk Lake	, 552 ft. " "
Head of Grand Rapids	504 ft. " "
Split Lake	470 ft. "
Foot of Gull Rapids	350 ft. " "
Foot of Kettle Rapids	242 ft. " "
Foot of Long Spruce Rapids	
Foot of Limestone Rapids	50 ft. "
Seal Islands	0 ft.













## DOMINION OF CANADA

# ANNUAL REPORT

OF THE

# DEPARTMENT OF RAILWAYS AND CANALS

FOR THE FISCAL YEAR FROM APRIL 1, 1909, TO MARCH 31, 1910

Submitted in accordance with the provisions of the Revised Statutes of Canada, 1906 Chapter 35, Section 33.

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY

[No. 20-1911.]

1910



To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom, and a Baronet; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, &c., &c., Governor General of Canada.

#### MAY IT PLEASE YOUR EXCELLENCY,-

The undersigned has the honour to present to Your Excellency the Annual Report of the Department of Railways and Canals, of the Dominion of Canada, for the past fiscal year from April 1, 1909, to March 31, 1910.

GEO. P. GRAHAM,

Minister of Railways and Canals.



## CONTENTS.

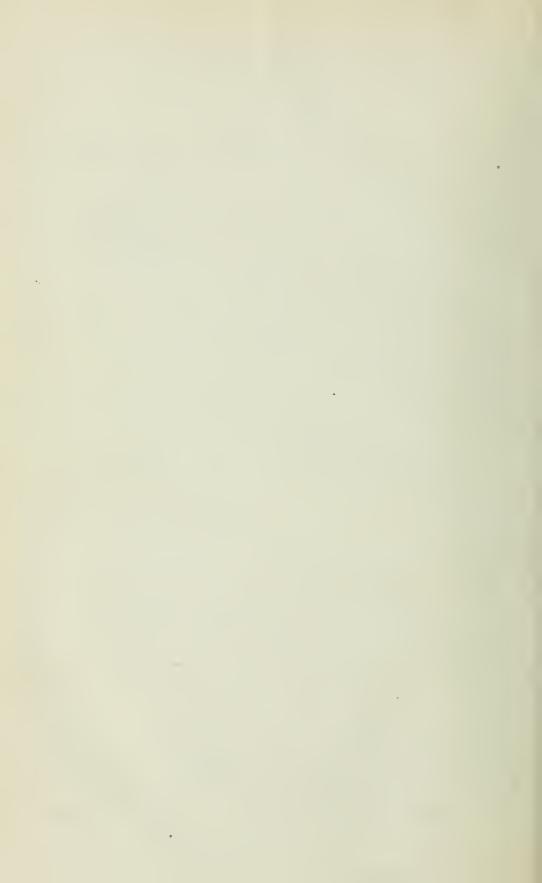
Part.		Page.
	Report of the Deputy Minister.	VII.
	APPENDICES.	
I	Statements of Accountant of Department	5
11	Statements of the Departmental Solicitor, including— Agreements for the construction of railways  Contracts entered into Water power and other public property leased Property conveyed Damages released	66 68 72 84 92
III	Reports of the Government Railways Managing Board and other officers. Report of Government Railways Provident Fund Board	103 199
IV	Report of the Government Chief Engineer for the Western Division of the National Transcontinental Railway.	205
V	Report on Hudson Bay Railway Surveys	211
VI	Report of the Board of Engineers, Quebec Bridge	233
VII	Reports of the Superintending Engineers and Superintendents of Canals.	.237
VIII	Intercolonial Railway, distances on. Windsor Branch Railway, distances on. Prince Edward Island Railway, distances on. Abstract statements of yearly traffic on the Government Railways. Abstract statements of cost of canal construction and enlargement. Dates of opening and closing canals, season 1909. Comparative statement of canal freight, seasons 1908 and 1909. Diagrams of locks. Canal routes and lock dimensions.	299 300 300 301 313 314 315 318 321
IX	Railway Subsidies, Acts respecting	335

## MAPS.

#### (In separate pocket.)

- General map of the Dominion.
   Northern parts of British Columbia and Alberta.
- 3. Southern parts of British Columbia and Alberta.
- Manitoba and part of Saskatchewan.
   Ontario and Manitoba.
   Ontario and Quebec.

- Nova Scotia, New Brunswick, Prince Edward Island and part of Quebec.
   Sault Ste. Marie Canal.
   Welland Canal.
   Trent Navigation and Murray Canal.
   St. Lawrence, Ottawa, Rideau and Richelien Canals.



# REPORT OF THE DEPUTY MINISTER.

To the Honourable Geo. P. GRAHAM,

Minister of Railways and Canals.

Sir,—I have the honour to submit the annual report of the Department of Railways and Canals for the fiscal period of twelve months ended March 31, 1910.

The annual reports of the engineers, together with general and special reports from superintendents, both of railways and canals, and from other officers in the department are given in appendices.

In Part I, will be found statements showing the amounts expended during the past fiscal year in construction, repair and maintenance of the several works under the department; also statements showing total expenditure on each canal since its construction, and on each of the government railways; also a statement showing payments made, year by year, to subsidized railways, with the aggregates of such payments.

On February 5, 1910. Mr. M. J. Butler, C.M.G., who filled the dual office of deputy minister and chief engineer, resigned, and on my appointment, on that date, to the position of deputy minister, the department reverted to the principle of having a special officer as chief engineer, and this office was filled by the appointment, on April 22, 1910, of Mr. W. A. Bowdeu, who had been acting in that capacity for some time previous.

Another change of importance was the constitution, under an order in council dated April 20, 1909, of a 'Government Railways Managing Board' with whom now rests the duty of carrying out the various details attaching to the operation of these roads.

#### GENERAL SUMMARY.

During the twelve months of the past fiscal year the expenditures made by or through the department on its several works of operation, maintenance and construction, both railway and canal, and in furtherance by subsidy, under specific votes granted by parliament, of railway enterprises in various parts of Canada other than the government roads, aggregate as follows:—.

The total railway expenditure amounted to \$32,862,094.46, of which \$21,505,975.91 was charged to capital, \$2,260,214.59 to income and \$9,095,903.96 to revenue.

The railway expenditure on capital account included \$19,968,126.86 for the eastern division (from Moncton to Winnipeg), of the National Transcontinental railway, which is in course of construction by a board of commissioners, and \$53,042.63 for surveys for a line of railway to Hudson bay.

The railway expenditure on income included a total of \$2,048,097.05 paid as subsidies to railways other than the government roads, \$112,465.04 for the Board of Railway Commissioners for Canada, \$17,644.66 for inspection of the Grand Trunk Pacific Kailway, and \$111,788.02 for preparing plans, &c., for the reconstruction of the bridge across the River St. Lawrence above Quebec—known as the Quebec bridge.

The expenditure on the Intercolonial railway amounted to \$9,923,479.78, namely, on capital account \$1,278,409.45, and on revenue account \$8,645,070.33. On the maintenance of the Windsor branch the expenditure was \$23,549.90, charged to revenue account.

On the Prince Edward Island railway, the total expenditure was \$633,680.70, of which \$206,396.97 was charged to capital and \$427,283.73 to revenue.

The expenditure on canals aggregated \$3,259,097.18; of which \$1,650,706.64 was on capital account, \$489,256.68 on income, \$604,899.26 for staff and \$514.234.60 for repairs, the last two amounts being charged to revenue.

Adding to the above for miscellaneous expenditures in both branches the sum of \$4,706.79, the total expenditure for the year on railways and canals amounted to \$36,125,898.43.

The total revenue derived from the railway and canal works was \$9,841,347.99, of which the railway produced \$9,647,963.71, and the canals \$193.384.28,\* the sum of \$168.893.63 being received from hydraulic rents.

The total government expenditure on railways prior to and since Confederation (July 1, 1867) up to March 31, 1910, amounts, on capital account, to \$236.654,665.29, including the sum of \$25,000,000 granted to the Canadian Pacific Railway Company for its main line, and also the amount \$660,683.09 expended on the Annapolis and Digby railway. In addition, there has been expended from the consolidated fund a total of \$202.532,757.03, making a total of \$439,187.422.32. Of this amount the sum of \$13.881,460.65 was expended, prior to Confederation, on the construction of portions of what is now the Intercolonial railway system.

The government expenditure on canals prior to and since July 1, 1867, to the close of the fiscal year March 31, 1910, amounts, on capital account, to \$96,982,449.37, of which \$20.593,866.13 was expended prior to Confederation, and from the consolidated fund to \$29.346,507.21, making a total of \$126,328,956.58.

The total expenditure on railways and canals up to March 31, 1910, is, as above, \$565,516,378.90; adding to which, for general expenditures embracing both, the further sum of \$\$10,358.32, the grand total expenditure amounts to \$566,326,737.22.4

Details indicating the general classes and directions of the above expenditures will be found in the statements furnished by the accountant of the department and printed in the appendices hereto, Part I.

## GOVERNMENT RAILWAYS IN OPERATION.

The government railways are the Intercolonial, the Windsor branch (maintained only, and leased for operation), and the Prince Edward Island railway.

Details respecting those railways and their operation will be found in the appen-

<sup>\*</sup> Under the authority of an order in council, dated June 22, 1905, the system of charging tolls for the passage of vessels and goods was abolished on all the canals of the Dominion. Records, however, are kept for statistical purposes, and the compilation of the resultant figures is given in a separate report issued by the department.

<sup>†</sup> This amount does not include the annual payment of \$119,700 to the provincial government of Quebec, being interest at the rate of 5 per cent on the sum of \$2,394,000 up to 1905, granted by 47 Victoria, Ch. 8 (1884), nor the annual payment of \$107,730, being interest at the rate of 4½ per cent since and including 1905, on the said sum of \$2,394,000, for the line between Ottawa and Quebec, which sum was transferred to the public debt as a liability, and is dealt with by the Finance Department. (See Public Accounts 1893-4, page 10, and 1906, page 79.)

dices, Part III., containing reports from the Government Railways Managing Board, and the officials of these roads.

The gross earnings of the government roads for the twelve months ended March 31, 1910, amounted to \$9,647,963.71; the working expenses amounted to \$9,095,903.96, showing a profit of \$552,059.75.

The Intercolonial railway working expenses amounted to \$8,645,070.33; its earnings amounted to \$9,268,234.99; a profit of \$623,164.66.

The Windsor branch maintenance expenditure amounted to \$23,549.90; the government earnings amounted to \$60,653.98, leaving a profit of \$37,104.08.

The Prince Edward Island railway working expenses amounted to \$427,283.73; its earnings amounted to \$319,074.74, the deficit being \$108,208.99.

## INTERCOLONIAL RAILWAY.

On March 1, 1898, the operations of the Intercolonial were extended to Montreal by means of leases obtained from the Grand Trunk and Drummond County Railway Companies, making an addition of 169.81 miles to the operation of the government line.

The leasing agreement with the Grand Trunk Railway Company, dated February 1, 1898, was confirmed by the Act 62-63 Vic., chap. 5 (1899). Its term extends for a period of ninety-nine years from March 1, 1898; the annual rental being fixed at \$140,000.

Under authority of the Act 62-63 Vic., chap. 6 (1899) the Drummond County railway from Chaudière to Ste. Rosalie, together with the branch from St. Leonard to Nicolet, was acquired by the Dominion; conveyance being made by a deed dated November 7, 1899.

On October 1, 1904, the Canada Eastern railway from Gibson to Loggieville, 123.67 miles, was purchased, and on April 19, 1905, the mortgaged Fredericton and St. Mary's bridge, with connected property,, 1.33 mile, was surrendered to the government.

The total mileage in operation during the year remained the same as in the preceding year, 1,447·13 miles. 23·13 miles are double-tracked. This is irrespective of spur lines and sidings and tracks in yards, the aggregate length of which was 383·71 miles.

#### CAPITAL ACCOUNT.

The expenditure for the past fiscal year ended March 31, 1910, on capital account amounted to \$1,278,467.60; from which is deducted the sum of \$58.15 (comprising a refund, &c.), leaving the total \$1,278,409.45, making the total expenditure on the whole road as amalgamated under the Acts 54-55, Vic. chap. 50 (1891) and 62-63 Vic. chaps. 5 and 6 (1899), together with the acquired Canada Eastern railway, \$92,273,073.51.

The principal items charged to capital during the year were as follows (omitting cents): for the new locomotive and car shops with equipment, and new freight yard at Moncton, \$399,400; new machinery for shops, \$95,799; increased accommodation at Halifax, \$179,953; engine house, machine shops, &c., at Rivière du Loup, \$156,945; extension to wharf at Dalhousie, \$27,500; double tracking parts of line, \$68,977; increased water supply, \$42,482, and increased facilities at various points, \$100.565.

The expenditure on eapital account was \$2,588,822.71 less than in the previous year 1908-9, in which year \$1,353,646 was expended for rolling stock, whereas last year there was no eapital expenditure under this head.

#### REVENUE ACCOUNT.

Expenditures on revenue account are grouped under five main heads, each divided into a number of sub-heads.

The main heads and the expenditures under them for the fiscal year ended March 31, 1910, are as follows: maintenance of way and structures (27 sub-heads), \$1,629,-254.81, against which is a credit of \$6,975.06 for maintenance of joint tracks. yards, &c., leaving the net amount \$1,622,279.75; maintenance of equipment (21 snb-heads), \$1,851,792.68; traffic expenses (5 sub-heads), \$179,882.61; transportation expenses (40 sub-heads), \$4,870,874.65, against which is a credit of \$86,206.89 for operating joint yards and terminals, making the net expenditure under this head, \$4,784,667.76; general expenses (8 sub-heads), \$206,447.53.

The aggregate expenditure under these five heads for the year was \$8,645,070.33.

The items of eost of 'maintenanee of way and structures' include (omitting eents): ties, \$226,214; rails, \$222,626; other track material, \$128,667; roadway and track, \$533,502; removal of snow, iee and sand, \$91,124; bridges, trestles and culverts, \$66,082; grade crossings, fences, cattle-gnards and signs, \$37,516; buildings, fixtures and grounds, \$140,304; and maintaining joint tracks, yards and other facilities, \$44,161 (against which last item is a credit, as above).

The items of 'maintenance of equipment' include (omitting cents): repairs and renewals of locomotives, \$759,381; repairs and renewals of passenger ears, \$338,494, and of freight ears, \$583,914; and shop machinery and tools, \$33,297.

The items of 'traffic expenses' include (omitting cents): for outside agencies, \$61,587; for advertising, \$37,232; and for stationery and printing, \$24,810.

The items of 'transportation expenses' include (omitting cents): despatching trains, \$142,103; station employees, \$626,729; station supplies and expenses, \$86,785; yard masters and elerks, \$33,544; yard eonductors and brakesmen, \$121,899; yard enginemen, \$112,975; fuel for yard locomotives, \$152,678; operating joint yards and terminals, \$104,241 (against which is a credit of \$86,206); road enginemen, \$482,068; engine house expenses, \$234,189; fuel for road locomotives, \$1,490,049; road trainmen, \$629,430; train supplies and expenses, \$177,702; and operating floating equipment, \$42,321.

The items of 'general expenses' include (omitting eents): pensions, \$63,313; and law expenses, \$7,307.

The gross earnings of the year, \$9,268,234.99, were derived as follows:—

The passenger earnings amounted to \$2,765,884.66, or 29.84 per eent of the gross earnings; the freight earnings were \$6,048,884.18, or 65.26 per eent of the gross; the mail and express earnings were \$408,847.66 or 4.41 per eent and the miseellaneous earnings amounted to \$44,618.49, or .48 per eent of the gross. The revenue derived from transportation was 99.32 per eent of the gross.

The gross earnings per mile of railway (1,447.13 miles), were \$6,404.56; per engine mile, \$1.08; per train mile, \$1.39; and per ear mile, 9.82 eents.

The total engine mileage was 8,608,486; the total train mileage 6,682,353; and the total car mileage, 94,384,628.

The expenses per mile of railway were as follows: maintenance of way and structures, \$1,121.03; maintenance of equipment, \$1,279.63; traffic expenses, \$124.30; transportation expenses, \$3,306.32; and general expenses, \$142.66, making a total of \$5,973.94.

The expenses per train mile were: maintenance of way and structures, 24.28 cents; maintenance of equipment, 27.71 cents; traffic expenses, 2.69 cents; transportation expenses, 71.60 cents; and general expenses, 3.09 cents, making a total of 129.37 cents.

The ratio of expenses to gross earnings was as follows: maintenance of way and structures, 17.50 per cent; maintenance of equipment, 19.98 per cent; traffic expenses, 1.94 per cent; transportation expenses, 51.62 per cent; and general expenses 2,23 per cent.

Comparing the twelve months ended March 31, 1909, with the corresponding period ended on March 31, 1910, the revenue last year showed an increase of \$741,165.53. The passenger traffic produced an increase of \$137,666.09; the freight traffic an increase of \$546,333.60; and the mails and express an increase of \$57,165.84. The increase per mile of railway was \$512.16, and per train mile 15 cents.

A comparison of working expenses for the same periods shows a decrease in the year 1909-10, of \$682,951.22, or per mile of railway, \$471.95; per engine mile of 0.87 cents, and per train mile of 6 cents.

The increased revenue, \$741,165.53, and the reduction in working expenses, \$682,951.22, make a total betterment, as compared with the previous year, of \$1,424,116.75.

#### GENERAL NOTES RE INTERCOLONIAL RAILWAY.

The number of passengers carried was 3,122,324, an increase compared with the previous year, of 215,087. There was an increase of 217,330 in the number of local passengers, and a decrease of 2,243 in the number of through passengers.

The actual quantity of freight carried, including non-revenue producing, was 4,071,692 tons. Of this, 144,452 tons consisted of supplies carried for the railway, such as ties, rails, station supplies, &c.

Of revenue producing freight, 3,927,240 tons were carried, an increase, compared with the previous year, of 353,268 tons. The local freight was increased by 216,188 tons, and the through freight by 137,080 tons; the principal items being the following:

Of agricultural products, 473,851 tons, including 155,484 tons of grain and 160,817 tons of flour; of animals, poultry and fish and their products, 76,732 tons, including 18,439 tons of dressed meats, 27,887 tons of fish and 6,667 tons of hides and leather; of products of mines, 1,266,572 tons, including 1,050,362 tons of coal and coke and 184,673 tons of stone, sand, &c.; of products of the forest 1,043,749 tons, including 416,774 tons of lumber, 185,385 tons of pulp wood, and 39,072 tons of wood pulp; of manufactured goods 708,373 tons, including 88,484 tons of iron and steel rails, 138,468 tons of pig and bloom iron, brick, lime and cement, 107,199 tons, sugar, 62,571 tons, and petroleum and oils, 27,537 tons. Of goods classed as miscellaneous, 357,963 tons were carried.

Of products of agriculture, there was an increase of 106,348 tons, including increases of 51,588 tons in grains, 14,125 tons in flour, and 36,208 in hay. Of products

of animals, the increase was 5,176 tons, chiefly in dressed meats and fish. Of products of mines, there was a decrease of 32,760 tons, coal and coke having decreased by 65,575 tons, and slate and granite by 1,732 tons, though other items showed increase. Of products of the forest, there was an increase of 164,702 tons, lumber having increased by 63,886 tons, and both pulp wood and wood pulp having shown considerable increase. Of manufactures, there was an increase of 79,208 tons, iron, pig and bloom, increased by 39,624 tons, wire rods by 35,365 tons, and other increases were made. Iron and steel rails fell off 12,856 tons, and steel billets 26,174 tons.

The total rolling stock equipment of the railway on March 31, 1910, was as follows: Locomotives, 414; cars of all kinds, 12,970, comprising sleeping cars, 1st class, 41, 2nd class, 50, parlour cars 9, dining cars 12, 1st class passenger cars 135, 2nd class 99, postal cars 34, baggage cars 65, box baggage cars 6, air brake instruction car 1, steam motor cars 4, box cars, 7,095, refrigerator cars 144, platform cars 3,058, pulp wood cars 52, oil tank cars 40, hopper cars 1,046, gondola coal cars 17, coal cars (20 tons capacity) 442, steel side dump coal cars 130, stock cars 148, convertible dump cars 200, auxiliary cars 23, vans 119; also 53 common snow ploughs, 20 wing ploughs, 2 rotary steam ploughs, 2 double track ploughs, 1 double end plough, 40 flangers; making a total of 118 ploughs aud flangers; 2 ballast plough cars, and 1 well boring car.

Out of the foregoing list 11 locomotives, 645 cars of various kinds, and 1 common snow plough were condemned or destroyed and 11 locomotives, 445 cars, and 1 common snow plough were listed as to be replaced at the close of the year.

The following comparative statistics dealing with traffic will be of interest:-

In 1908-9, the average tons of freight carried per train, producing revenue, was 229-95, and the number of passengers 51-61; in 1909-10, the average freight tonnage was 260-02, and passengers 58-99.

In 1908-9, the average tons per loaded car, producing revenue, was 16-66, and the number of passengers 8-81; in 1909-10, the number of tons was 17-23, and of passengers, 9-62.

The number of tons per train, all freight, in 1908-9, was 235.46, and in 1909-10, 264.26.

The number of tons per car, all freight, in 1908-9, was 17.07, and in 1909-10, 17.51.

The average distance each ton of freight was carried in 1908-9, was 267.59 miles, and in 1909-10, the average distance was 271.69 miles. The average distances passengers were carried in those years were 48.04 miles, and 48.73 miles respectively.

The average number of loaded cars per train in 1908-9, was 13.80 cars of freight and 5.86 cars of passengers; in 1909-10, the number of freight cars per train was 15.09 and of passengers 6.13.

The average number of empty cars per train in 1908-9, was 3.93; and in 1909-10, 3.13.

In 1908-9, the average of train miles per mile of road was, for freight, 2,873.96; and for passengers, 1,870-06; in 1909-10, these figures were, respectively, 2,835-59, and 1,782-07.

In 1908-9, the average per mile of road of revenue producing freight carried one mile was 660.857-05 tons, and passengers 96.519-39; in 1909-10, the figures were, freight 737,317-14 tons, and passengers 105,131-40.

The number of tons, all freight, per mile of road carried one mile in 1908-9, was 676,705.26, and in 1909-10, 749,338.04.

The train mileage in 1908-9 was: passenger, 2,706,214 miles; freight, 4,158,990 miles; in 1909-10, passenger, 2,578,885 miles; freight, 4,103,468 miles.

The loaded car mileage in 1908-9, was 57,381,108 miles, and in 1909-10, 61,916,687 miles.

The empty car mileage in 1908-9, was 16,356,184 miles, and in 1909-10, 12,843,789 miles.

The caboose car mileage in 1908-9, was 3,776,649 miles, and in 1909-10, 3,802,680 miles.

The steam motor car mileage (passenger) was 21,997 miles in 1908-9, and 16,563 miles in 1909-10.

The total car mileage in 1908-9 was: passenger, 15,860,178 miles, and freight, 77,513,941 miles; in 1909-10, the figures were: passenger, 15,821,472, and freight 78,563,156.

The total freight moved in 1908-9, was 3,751,724 tons; of this quantity, 3,573,972 tons were revenue-producing. In 1909-10, the total freight moved was 4,071,692 tons, of which 3,927,240 tons were revenue-producing.

Repairs to passenger cars cost, per car, in 1908-9, \$630.51, or per car mile, .0172 of a cent; and in 1909-10, \$604.87, or per car mile, .0171 of a cent.

Repairs to freight ears cost, per car, in 1908-9, \$47.86, or per car mile, .0078 of a cent; and in 1909-10, \$38.16, or per car mile, .0062 of a cent.

Repairs to locomotives cost, per locomotive, in 1908-9, \$1.884.53, or per locomotive mile, .0828 of a cent, and in 1909-10, \$1,504.72, or per locomotive mile, .0727 of a cent.

The value of stores on hand at the close of the year was \$1,243,181.69, comprising fuel, \$416,911.37; roadway and bridge material, \$314,377.42; and miscellaneous, \$511,892.90.

During the year the new shops at Moncton were occupied, and the locomotive repair work formerly executed at Halifax was transferred to the Moncton shops, a considerable reduction in the number of employees being thus effected.

The double tracking between Moncton and Painsec Junction, a distance of 7.2 miles, was completed and put in operation.

The general condition of the rolling stock is good, and the track of the railway, together with its bridges and other structures, has been maintained in good repair. It is believed that the whole road was never in better condition than at the present time.

Full details as to the various works of improvement and repair carried out during the year, and as to the mechanical department and the rolling stock, will be found in the appendices hereto; also the several statements of the comptroller in regard of the expenditures, &c.

#### WINDSOR BRANCH.

The road is 32 miles in length. It extends from Windsor Junction, on the Intercolonial railway, to Windsor.

The railway is operated by the Dominion Atlantic Railway Company, formerly the Windsor and Annapolis Railway Company. The company pay all charges in con-

nection with the working of the traffie, two-thirds of the gross earnings being allowed them, the government taking the remaining one-third, and assuming all cost of maintenance of the road and works. This arrangement is earried out under an agreement dated December 13, 1892, which extends for a further term of twenty-one years, arrangements similar to those made in 1871.

All charges for superintendence and supervision of maintenance of work are borne by the government; the duty of supervision is performed by the chief officers of the Intercolonial railway.

The gross government receipts for the twelve months of the fiscal year ended on March 31, 1910, amounted to \$60,653.98. The cost of maintenance aggregated \$23,549.90, leaving a profit of \$37,104.08. The government share of the receipts showed an increase of \$4,622.65 compared with the previous year.

## PRINCE EDWARD ISLAND RAILWAY.

This is a narrow gauge railway, 3 feet 6 inches. The length of road operated was the same as in the previous year, 267.5 miles.

#### CAPITAL ACCOUNT.

There was an addition of \$206,396.97 to the capital account expenditure during the past year ended March 31, 1910, making the total capital expenditure up to that date, \$8,465,364.91. The added expenditure included \$156,531.57 for increased accommodation at Charlottetown, where a new twenty stall brick and concrete engine house has been built, and \$49,829.25 for the branch line from Harmony to Elmira, a distance of 9.9 miles, the construction of which was placed under contract during the year.

#### REVENUE ACCOUNT.

The gross earnings of the year amounted to \$319,074.74, and the working expenses to \$427,283.73, making an excess of expenditure over earnings of \$108,208.99. Compared with the previous year there was an increase of \$7,755.11 in the gross earnings, and an increase of \$16,953.32 in the working expenses.

The expenditure on revenue account (working expenses) is classified, as on the Intercolonial railway, under five heads, with their several sub-heads. It comprised: Maintenance of way and structures,' (25 sub-heads), \$121.046.70, which included ties \$10,232.32; rails, \$11,008.03; roadway and track, \$60,149.62; removal of snow, ice and sand, \$11.930.76; and telegraph and telephone lines, \$6,916.88; 'maintenance of equipment' (10 sub-heads), \$79,258.26, which included repairs to locomotives, \$27,005. to passenger ears, \$14.485.79, and to freight cars, \$11.471.06; 'traffic expenses' (3 sub-heads), \$968.97, of which \$894.09 was for advertising; 'transportation expenses' (30 sub-heads), \$211.004.76, which included, station employees, \$45.038.14; road enginemen, \$23.425.86; road engine house expenses, \$10,837.48; fuel for road engines, \$46,482.45; road trainmen, \$31,955.39; train supplies and expenses, \$7.071.15; and telegraph and telephone operation, \$7.013.08; 'general expenses' (6 sub-heads), \$15,005.04, which included the salaries and expenses of general officers, clerks and attendants, and relief department expenses, \$6,142.67.

The number of passengers earried was 351,038, an increase compared with the previous year of 18,280, producing \$140,076.83, an increase of \$3,542.79. Of freight, 105,741 tons were earried, a decrease of 349 tons, producing \$153,373.11, an increase of \$4,222.50. The earnings for mails and sundries amounted to \$25,624.80, a decrease of \$10.18 compared with the previous year.

The freight earried was agricultural products, 29,767 tons, including grain, 12,918 tons; flour, 4,374 tons; hay, 2.912 tons; fruit and vegetables, 7,886 tons, and tobaceo, 166 tons; animals, poultry and fish and their products, 12,064 tons, including live stock, 3,562 tons; dressed meats, 2,307 tons; poultry, game and fish, 3,030 tons, and hides and leather, 421 tons; products of mines, 10,795 tons, including 7,523 tons of bituminous coal; forest products (lumber) 13,358 tons; manufactures, 6,593 tons, including iron and steel rails, 598 tons, pig and bloom iron, 439 tons; agricultural implements, 711 tons; cement, brick and lime, 1,334 tons, and sugar, 907 tons; miscellaneous commodities, 33,164 tons.

The engine mileage aggregated 444,837 miles, the train mileage, 323,522 miles, and the ear mileage, 2,051,034 miles.

The gross earnings per mile of railway amounted to \$1,195.03; per engine mile, \$71.73 cents; per train mile, 98.63 cents; and per ear mile to 15.56 cents.

The working expenses per mile of railway amounted to \$1,600.31, and per train mile to 132.07 cents.

The value of stores on hand on March 31, 1910, was \$59,306.18, including fuel, \$12,155.77.

The total rolling stock equipment of the railway on March 31, 1910, was as follows: Locomotives, 31; passenger ears, first-class, 23, second-class, 12; combined second-class and baggage, 7; postal and smoking, 4; combined postal and baggage, 4; baggage, 6; pay ear, 1; vans, 4; box freight, 313; refrigerator, 3; stock, 21; coal, 22; platform, 147; total, 567. In addition, there were 10 snow ploughs and 9 flangers.

In the Charlottetown shops, which the mechanical superintendent states are modern and up to date; the machinery has all been installed. One first-class passenger ear and ten platform ears were rebuilt, ten locomotives received heavy repairs, and considerable quantity of work was done; the rolling stock being maintained in a high state of efficiency.

## GOVERNMENT RAILWAYS PROVIDENT FUND.

The Act of 1907, chap. 22, establishing a fund to be known as 'The Intercolonial and Prince Edward Island Railway Employees' Provident Fund' came into effect on April 1, 1907. The main feature is that a contribution of 1½ per cent of each month's salary and wages will be made by each employee to the fund, to which a like amount will be added by the railway. Interest at 3 per cent per annum will be allowed on the employee's contribution. On retirement, after a certain length of service, the employee will receive for the rest of his life a monthly allowance for each year of his service, equal to 1½ per cent of his average monthly salary or wages for the preceding eight years; the minimum allowance to be \$20 a month, and the maximum 3 of his said average monthly pay. The fund is administered by a board of five persons, three of whom are officers of the railway; the remaining two being elected annually by the

contributing employees. By the amending Act of 1909, chap. 20, the government Railways Managing Board nominates one of its members as chairman of the Provident Board.

The third annual report of the Board, which is printed in the appendices hereto, shows that at the beginning of the fiscal year April 1, 1909, there was a balance to the credit of the fund of \$225,898.31, and that during the past fiscal year the contributions of the railway employees amounted to \$69,949.70; adding to this a like contribution from the government railways and the sum of \$483.06 for refunds, &c., together with interest on monthly balances, \$6,314.32, the total of the fund for the year aggregated, \$372,595.09. The total expenditure during the year was \$117,010.01, of which \$103,628.20 was paid out in retiring allowances, leaving at the credit of the fund on March 31, 1910, the sum of \$255,585.08. It should again be observed that the expenditure, in the early years of the operation of the scheme, would naturally be less than the receipts; but this condition cannot be expected to continue indefinitely. However, meantime, a considerable increase of the fund at credit, year by year, will serve as a source from which to meet the larger expenditures to be looked for in the future.

In the course of the year, 168 employees were retired and pensioned; and seventeen died.

During the three years that the system has been in operation the total contributions by employees amount to \$227,963.85, and the total contributions by the railways to \$227,963.85. The number of employees pensioned is 398, and forty-five have died, leaving 353 in enjoyment of their allowances at the close of the fiscal year 1910. The total paid for retiring allowances is \$191,608.87.

# SURVEYS FOR A RAILWAY TO HUDSON BAY.

These surveys have been conducted from Le Pas Mission, a point on the River Saskatchewan, up to which point there is at present in operation a railway, part of the Canadian Northern railway system.

In last year's report there was printed a progress report made by Mr. John Armstrong, the chief engineer of the survey, dated February 15, 1909. This report, which was based on partial surveys, dealt with the two feasible routes discovered, one at Fort Churchill, on the River Churchill, and the other to Port Nelson, on the River Nelson.

Under date September 8, 1909, Mr. Armstrong has submitted a general report on the preliminary surveys, which now include preliminary surveys of the harbours at the mouth of the Nelson and Churchill rivers. His report is furnished with maps showing the two routes, with profiles, and charts with the soundings taken at Port Nelson. His report was laid before parliament last session and will be found printed in the appendices hereto.

From this report, the following information is summarized:-

The distance from Le Pas to Fort Churchill would be approximately 477 miles; its cost with 60-pound rails, \$10,586,520, or with 80-pound rails, \$11,351,520; adding to which the sum of \$7,757,152 for buildings, shops, grain elevators. &c., and for harbour works, \$6,675,000, the total is set down at \$19,108,672.

The distance from Le Pas to Port Nelson would be approximately 410 miles; its cost with 60-pound rails, \$8,333,800, or with 80-pound rails, \$8,981,800; adding to which, for buildings, shops, grain elevators, &c., the sum of \$7,444,540, and for harbour works, \$5,065,000, the total cost is set down at \$16,426,340.

In both cases, the sum of \$4,000,000 is given as representing the cost of two 4,000,000 bushel fireproof elevators to be erected at either terminal.

The grades obtained are, on the Churchill route 100 of 1 per cent for the north bound and 100 for the south bound traffic. On the Nelson route the grade is 100 both ways.

On the Churchill route the estimate provides for steel bridge structures over the River Saskatchewan and the Deer river, timber to be used for all other waterways.

On the Nelson route the bridge over the River Saskatchewan and the two crossings of the Nelson river are proposed to be of steel and concrete; all others to be of wood.

For about the first 150 miles from Le Pas the route is common to both lines of survey, and, of this, the first 120 miles runs through a comparatively level country, giving easy grades and cheap construction. This character is maintained generally on the whole of the Nelson route, the greater portion of the grading being in clay loam, a certain percentage of sand gravel and swamps. The profile shows a practically straight line of descent to the bay, varied only by stretches of level grade.

The Churchill route is at a higher elevation, and passes through a granite country. It involves a number of rising and falling grades between the 250th mile and the bay, and requires much curvature to secure the grade adopted, at reasonable cost.

The question of harbour facilities at the two points is one that constitutes a very important factor in the determination of the route to be adopted, and although a large amount of information has been obtained, as is indicated by the charts with their marked soundings, and Mr. Armstrong's statements as to tides, currents, ice conditions, anchorage, sites for railway terminals, &c., it is considered that further details should be gathered.

By the close of the fiscal year, March 31, 1910, location plans and profiles of the proposed liue for a distance of about seventy-five miles from Le Pas were prepared, and further location work was in progress.

# BOARD OF RAILWAY COMMISSIONERS FOR CANADA.

By the Act 3 Edward VII., chap. 58 (1903), amending and consolidating the law respecting railways, the Railway Committee of the Privy Council was abolished, and in lieu thereof a Board of Commissioners, under the above title, was created, to consist of three members (increased to six by the Act of 1908, chap. 62), to be appointed by the Governor in Council; this Act was brought into force on February 1, 1904, by proclamation, on the authority of an order in council, dated January 18, 1904, which also appointed certain persons as commissioners. By the Act of 1908, chap. 61, the jurisdiction of the board was extended to cover the operation of telegraph and telephone lines, and by the Act of 1908, chap. 62, certain amendments were made to its constitution and otherwise. The office of the board is at Ottawa, though it is authorized to hold sessions in any part of Canada. Its decisions and orders are final, subject

to appeal to the Supreme Court upon questions of jurisdiction or law, and also to action thereon by the Governor in Council, in his discretion.

It is required to make, annually, a report of its proceedings, which report is laid before parliament. The report for the year ended March 31, 1910, has been received, and will be laid before parliament in due course.

# NATIONAL TRANSCONTINENTAL RAILWAY.

Under an agreement, dated July 29, 1903, ratified by the Dominion Act of that year, chap. 71, and under a modifying agreement dated February 18, 1904, ratified by the Act of that year, chap. 24, the Grand Trunk Pacific Railway Company, a company incorporated by the Act of 1903, chap. 122, have undertaken certain obligations in respect of a line of railway, wholly upon Canadian territory, between the city of Moneton, in the province of New Brunswick, and the navigable waters of the Pacific ocean, at or near Port Simpson or some other port in British Columbia, as may be agreed upon. The railway is composed of two divisions, namely, the eastern division, between Moncton and Quebec, thence westerly through the uorthern part of the provinces of Quebec and Ontario, and in the province of Manitoba to the city of Winuipeg, and the western division, between Winnipeg and the Pacific ocean. The eastern division is being constructed by the government under four commissioners appointed by the Governor in Council, and on completion is to be leased to and maintained and operated by the company, who undertake to construct at their own cost and to maintain and operate the western division. The lease of the eastern divisiou is to be for a period of fifty years, at a rental of three per cent per anuum upon the cost of its construction; the first seven years of the term to be free of rent; both divisions are to be equipped by the company, the first equipment to be of a value not less than \$20,000,000.

By way of assistance to the company in the construction of the western division, it is provided that the government shall guarantee payment of the principal and interest of an issue of bonds to be made by the company for an amount sufficient to produce a sum equal to 75 per cent of the cost of its construction, such amount not to exceed \$13,000 per mile in respect of the prairie section from Winnipeg to the eastern limit of the Rocky Mountains (such limit to be established by the chief engineer of the company and the chief engineer of the government, as the result of actual surveys to be made).

The several government expenditures to be made under these Acts and agreements are to be so made from appropriations by parliament for the purpose, and on the recommendation of the Minister of Railways and Canals, to whom accounts of all receipts, expenditures and liabilities are to be furnished monthly. The board are required to furnish annually a report to the Governor in Council, through the Minister of Railways and Canals, showing the receipts and expenditures of the year, and other information as to the railway, which report is to be submitted to parliament.

The headquarters of the Board are in the city of Ottawa.

The report of the Board for the fiscal period of twelve months ended March 31, 1910, has been prepared, and will be laid before parliament in due course.

The following summary shows the position at the close of the year, March 31, 1910.

The entire line from Moncton to Winnipeg is under contract, the distance being 1804-84 miles.

Of this distance, 1,106 miles are graded. The track is laid for a distance of 698.7 miles of main line, with 114.5 miles of sidings; total 813.2 miles. The work is comprised in twenty-one contracts, and the total percentage done is 60.1 per cent of the whole.

The work is divided into six districts. On the first westward from Moncton, District 'A,' 256.51 miles; 246 miles are graded, and the main track is laid for 155.91 miles. The expenditure for construction during the year was \$4,996,543.26. 81.07 per cent of the work has been done.

District 'B', 507.22 miles; 358.25 miles are graded, and the main track is laid for 216.4 miles. This district extends east and west of the Quebec bridge. The expenditure during the year on construction was \$5,313,240.10, and on transport, \$14,169.14.64.87 per cent of the work has been done.

District 'C', 192.91 miles; 13 miles have been graded. The expenditure during the year on construction was \$360,264.18; on transport, \$26,691.28, and on location, \$6,948.04. 5.31 per cent of the work has been done.

District 'D', 216.11 miles; 127.5 miles have been graded, and 57.9 miles of main track laid. The expenditure during the year on construction was \$3,479,414.94, and on transport, \$27,286.12. 36.89 per cent of the work has been done.

District 'E', 255.19 miles; 41.5 miles have been graded. The expenditure on construction during the year was \$857,325.09, and on transport, \$10,249.70; 20.58 per cent of the work has been done.

District 'F,' 376.80 miles; brings the road into the city of Winnipeg, crossing the Red river at St. Boniface. It embraces the construction of the yards and locomotive and other shops at a point about six miles east of Winnipeg. The track connecting the Lake Superior branch with the Dundee branch of the Canadian Northern railway at St. Boniface, was laid in October, 1909, and 46.7 per cent of the work of constructing the station buildings, &c., over this distance is completed. The substructure of a double track bridge over the Red river at Winnipeg is under contract, and six of the piers have been completed. The foundations of all the terminal shop buildings are completed, and about 2,500 tons of the general steel work have been erected. The expenditure during the year on construction was \$4,648,295.23, and on transport, \$11,982.58; 82.21 per cent of the work has been done.

The expenditure for the fiscal year up to March 31, 1910, on the entire eastern division amounted to \$19,968,126.86, of which \$19,655,682.80 was on construction. The total expenditure up to that date was \$71,918,843.88.

The yearly expenditures have been as follows:-

1904-5\$ 778,363	63
1905-6	50
1906-7 (nine months) 5,537,867	50
1907-8	41
1908-9	98
1909-10	86

As the result of disputes between the government engineers and those of the Grand Trunk Pacific Railway Company respecting classification of material on districts 'B' and 'F,' and as to returns for rock moved outside the regular section in rockcuts, (commonly known as 'overbreak'), these matters have been referred for settlement to a board of three arbitrators, as provided for in the company's agreement with the government. Owing to snow on the ground, it was not found possible to deal with the question of classification before the close of the fiscal year. A number of adjustments of 'overbreak' were, however, made, and where they involved deductions these have been made in the contractors' progress estimates. In some cases remeasurements will be necessary before they can be dealt with.

On the western division of the railway, in course of construction by the Grand Trunk Pacific Railway Company, the position at the close of the fiscal year, March 31, 1910, is shown by the report made by the government chief engineer of that division, Mr. Collingwood Schreiber, C.M.G., to be as follows:—

The total length of this division is about 1,751 miles, divided into two sections, viz.: the 'Prairie Section' which extends from the west bank of the Assiniboine river, in the city of Winnipeg, to the east bank of Wolf creek, a distance of 915 miles, and the 'Mountain Sectiou' extending from the east bank of Wolf creek to the western end of the city of Prince Rupert, the Pacific coast terminus, a distance of about 836 miles.

# 'PRAIRIE SECTION.'

The entire section is graded, and the structures are built. The main line track is laid, and sidings have been constructed at 138 stations, aggregating 140½ miles in length. 474 miles of main line are fully ballasted; 350 miles have a first lift of ballast of about five inches in depth, and there remain thirty-five miles of skeleton track between Entwistle and Wolf creek.

Seven hundred and thirty-two miles of double fence have been erected.

A telegraph line has been built over the entire 'Prairie Section' of 915 miles, of which 793 miles is a four wire line, and 122 miles a two wire line.

Eleven interlocking plants have been established at rail level crossing of other railways.

Water services have been introduced at forty-nine stations.

Six round houses have been built, viz.:—At Rivers, 18 stalls; Melville, 12 stalls; Watrous, 12 stalls; Biggar, 12 stalls; Wainwright, 12 stalls; Edmonton, 18 stalls; and two small engine houses have also been erected—one of two stalls at Portage la Prairie and one of two stalls at South Saskatoon.

Machine shops have been erected at Rivers, Melville, and Edmonton, three divisional stations.

Five divisional station houses; 26 way station houses; 54 section houses; 66 tool houses; 79 bunk houses; 5 coaling plants; 80 permanent and 22 temporary loading platforms; and 18 stock yards; 115 grain elevators have been erected at stations.

The portion of the road between Winnipeg and Edmonton—795 miles—has been regularly operated for public traffic since September 13, 1909, under authority of the Board of the Railway Commissioners. On the 120 miles west of Edmonton, though there is no regular operation, there has been attached to the construction trains since

February 1, 1910, a combination passenger and freight car, for the convenience of those concerned.

# 'MOUNTAIN SECTION.'

Location plans and profiles have been approved by the government and Board of Railway Commissioners from Wolf creek westward for a distance of 289 miles, and from Prince Rupert easterly for 409 miles, leaving a gap of 138 miles.

Of the 289 miles from Wolf creek westerly, only 179 miles have, as yet, been put under contract.

As the contracts were only awarded late last autumn, very little work has been done beyond the first mile west of Wolf creek. The work on this mile is very heavy, there being two large steel bridges to be erected, and a cutting of over 130,000 cubic yards to be taken out. The first structure will be 622 feet in length and 130 feet high, crossing Wolf creek. The second structure is to span the MacLeod river; it will be 1,052 feet long, and 125 feet high. The concrete piers, pedestals and abutments of these two bridges are completed in readiness to receive the superstructure.

The erection of the superstructures of these two bridges will be carried on simultaneously, so as to have them completed at the earliest possible date, in order that the tracklaying may be proceeded with during the ensuing summer season.

During the winter season, over 3,600 car loads of plant and supplies reached Wolf creek and were at once forwarded and distributed by teams along the line of work.

Of the 409 miles from Prince Rupert easterly, 240 miles are under contract.

Of the first 100 miles out of Prince Rupert easterly the grading and culvert structures are far advanced towards completion.

About seven miles of track have been laid easterly from Prince Rupert, and sufficient rails and fastenings have been delivered to cover 200 miles, together with enough ties for 100 miles.

A wharf has been built at Prince Rupert; also a warehouse.

On the 140 miles east of the first 100 miles, very little work has been done peuding the opening of navigation on the Skeena river.

# QUEBEC BRIDGE RECONSTRUCTION.

By the Act of 1908, chapter 59, the Governor in Council was authorized to take over the whole undertaking, assets, property and franchises of the Quebec Bridge and Railway Company. By an order in council of August 17, 1908, such authority was given, and the property was assumed on December 1, 1908. The transfer was made by a deed of assignment and transfer, dated October 18, 1909.

The chairman of the special Board of Engineers, constituted by Order in Council of August 17, 1908, for the work of reconstruction, has reported on the progress made during the fiscal year, ended March 31, 1910; his report will be found printed in the appendices hereto.

Results of the borings made to determine the nature of the material in the vicinity of the present piers, and the location of bcd rock have established the feasibility of sinking a new pier down to bedrock outside of the present pier on the north side

of the river, and that on the south side the foundations of the present pier are sufficient to support the enlarged work.

The contract for the construction of the piers and abutments of the new bridge was awarded in December, 1909, and preparatory work on the north side has been steadily carried on since.

In the same worth, the contract for the removal of the debris was awarded, and by the close of the year about 21 per cent of the total work was executed.

Contracts have been made for the important work of carrying out compression and tension tests, and the question of the use of nickel steel rivets for joints instead of carbon steel was also submitted to careful test, but without developing any material advantage to be gained by the use of nickel steel.

By the close of the year the plans and specifications of the Board for a bridge on a cantilever design had made such progress as to ensure their being in readiness for the early calling for tenders. Intending tenderers, however, have been notified that, in addition, they will be allowed to submit plans prepared by themselves.

The expenditure during the year, for the preparation of plans, salaries, &c., amounted to \$111,788.02, adding to which the sum of \$355,279.07, the amount paid for acquiring the stock of the Quebec Bridge and Railway Company, and the further sum of \$31,765.44, the expenses of the commission of inquiry into the causes of the collapse of the old structure, the total expenditure since the date of the collapse is \$498,832.53.

There is, however, a credit of \$100,000, the amount paid to the government by the Phænix Bridge Company, the original contractors for the superstructure, under an agreement, dated March 12, 1910, made with them, under authority of an order in council of February 22, 1910, in settlement of the claims of the government for damages and the counter claims of the company in this connectiou; the company releases to the government all its interest in the steel and manufactured materials used or intended to be used then at the bridge site and storage yards there and at Quebeo, and the government releases to the company all its interest in the steel and manufactured materials then at the company's works at Phænixville. Pa., U.S.A., together with the government lien on the company's working plant, equipment, &c., then at the site of the bridge and said storage yards.

By this agreement and settlement the company surrenders all rights it previously possessed under contract for the construction of the bridge.

# SUBSIDIZED RAILWAYS.

Information as to subsidized railways is given in the statements of the accountant and the law clerk of the department, respectively, which will be found in the appendices hereto. The accountant's statement shows all payments made, year by year, since the beginning of the system of railway subsidies; the law clerk's statement shows the several subsidy agreements entered into during the past year, with certain details of the specification in each case.

# CANALS.

The total expenditure on the Dominion canals for the twelve months ended March 31, 1910, was \$3,259,097.18, comprising, for works of construction, \$1,650,706.64, charged to capital; \$489,256.68 for maintenance, charged to income; \$604,899.26 for staff and \$514.234.60 for repairs; the last two items being charged to revenue.

The balance of rentals due on April 1, 1909, was \$148,795.35. The rentals accrued during the year amounted to \$176,126.70, making a total of \$324,922.05. Of this amount, there was collected during the year a total of \$168,893.63. The balance remaining due on March 31, 1910, after deducting abatements, was \$148,266.82. It should be observed that, as a general rule, rentals are payable in advance, this fact accounting, to a considerable extent, for the large amount of rentals due at the end of each year.

The total net revenue collected amounted to \$194,685.84, the balance being made up of wharfage dues, fines, &c. Of this amount, refunds were made to the extent of \$1,301.56, leaving the net revenue \$193,384.28.

· No tolls are charged on any of the Dominion canals.

Summaries of these expenditures and receipts will be found in the statements furnished by the accountant of the department, printed in the appendices, Part I, of the present report.

The above figures relate to the fiscal year 1909-10, but very voluminous statistics relating to canal traffic, and various commercial statistics for the season of navigation of the year 1909 will be found in the 'Canal Statistics,' which are issued as a separate report.

The principal facts of these statistics, summarized, are as follows:—

The total traffic through the several canals of the Dominion for the season of 1909 amounted to 33,720,748 tons, an increase of 16,217,928 tons compared with the previous year. 272,222 passengers were carried, a decrease of 8,608.

The following features of the principal canal traffic during the season of 1909, will be of interest:—

On the Welland canal, 2,025,951 tons of freight were moved, an increase of 322,498 tons. Of the total, 921,866 tons were agricultural products and 186,614 tons produce of the forest; of coal, 377,681 tons were carried; 1,976,040 tons were through freight, of which 1,325,023 tons passed eastward.

Of the through freight, Canadian vessels carried 1,247,694 tons, an increase of 326,373 tons, and United States vessels 728,346 tons, a decrease of 45,762.

The total through freight passed eastward and westward through this canal to United States ports was 445,419 tons, a decrease of 3,235 tons compared with the year 1908.

The quantity of grain passed down the Welland and St. Lawrence canals to Montreal, was 652,742 tons, a decrease of 103,399 tons as compared with the previous year; no transhipments have been made at Ogdensburg since 1903.

On the St. Lawrence canals, 2,410,629 tons of freight were moved, an increase of 123,652 tons, of which 1,564,584 tons were eastbound freight, and 846,045 tons westbound freight; 773,730 tons were agricultural products; 639,767 tons coal; and 509,157 tons forest products.

On the Ottawa river canals, the total quantity of freight moved was 336,939 tons. an increase of 78,412 tons, of which 232.025 tons were produce of the forest.

On the Chambly canal, 752,117 tons were moved, an increase of 248,841 tons, of which 599,330 tons were produce of the forest and 98,533 tons of coal.

On the Rideau canal, 91,774 tons were carried, an increase of 2,134 tons; 26,727 tons being produce of the forest, and 15,633 tons of coal.

On the St. Peter's canal, 79,850 tons were carried, an increase of 7,835 tons; 41,301 tons were coal.

On the Murray canal, 102,291 tons passed, an increase of 76,390 tons.

On the Trent canal, 59,952 tons were moved, of which 55,086 tons were product of the forest.

On the Sault Ste. Marie canal the total movement of freight was 27,861,245 tons, being an increase of 15,102,029 tons, carried in 6,331 passages of vessels, the number of lockages being 5,046. Of wheat, 74,401,000 bushels and of other grain, 29,503,240 bushels were carried; 2,522,700 barrels of flour; 21,156,915 tons of iron ore; 2,797,699 tons of coal; and 34,309,300 feet, board measure, of lumber.\*

By means of the enlarged Canadian canal system and the intermediate waterways, a minimum depth of fourteen feet of water from Lake Superior to the head of the oceau navigation at Montreal is afforded; the smallest locks being 270 feet in length and 45 feet in width, intended, for the purpose of ordinary traffic, to accommodate vessels 255 feet long and 44 feet beam.

The foot note below relating to the Erie canal will be found of interest.\*\*

\* The following summary of the total traffic of the American and Canadian canals at

Sault Ste. Marie for the season of 1909 is taken from the statistical report prepared under the direction of Lieut.-Col. C. McD. Townsend, Corps of Engineers, U.S. Army:—

Total freight carried, tons, 57,895,149; total tons, net register, 46,751,717; total mile-tons, 46,812,229,345; total valuation placed on freight carried, \$626,104,173; total amount paid for freight transportation, \$36,291,948; total number of registered vessels using the canals, \$70; total number of passages by unregistered crafts carrying freight, 242; total valuation placed to the contraction of the contr

total number of passages by unregistered crafts carrying freight, 242; total valuation placed on registered vessels, \$126,599,000; total number of passengers transported, 59,948; average distance freight was carried, 809 miles; average cost per ton for freight transportation 63 cents; average cost per mile per ton, 0.78 mills; average value per ton of freight carried, \$10.81.

The total freight traffic of 57,895,149 net tons for the season of 1909, when compared with the season of 1908, shows an increase of 40 per cent, or 16,504,592 tons, and the net registered tonnage of 46,751,717 tons shows an increase of 50 per cent, or 15,659,987 tons.

The traffic through the American canal was 52 per cent of the total freight, 62 per cent of the net registered tonnage, and 46 per cent of the total number of passengers carried, the amounts being 30.132,374 tons of freight, 28,939,463 tous register, and 27,736 passengers. Compared with the season of 1908 there was an increase of 1,475,077 tous of freight, or 5 per cent; 7,451,964 tons register, or 35 per cent; and 4,657 passengers, or 20 per cent.

The traffic through the Canadian canal was 48 per cent of the total freight, 38 per cent of the total registered tonnage, and 54 per cent of the passengers carried, the amounts being 27,762,775 tous of freight, 17,812,254 tons register, and 32,212 passengers. Compared with the season of 1908, there was an increase of 15,029,515 tons of freight, or 118 per cent; 8,208,023 tons register, or 85 per cent; and 2,004 passengers, or 7 per cent.

tons register, or 85 per cent; and 2.004 passengers, or 7 per cent.

It has to be observed that the traffic figures do not, in all cases, agree with those of the Canadiau canal returns, a fact which is probably due to certain differences existing between the standards and classifications of the two countries.

† In exceptional cases this length can, with certain manusurering, be somewhat increased, being governed, of course, by the form of the vessel. As a matter of fact, there are vessels now using the canals whose length, over all, is 265 feet, and width of beam 37 feet.

\*\* The Eric canal, between Buffalo and Albany, is 350½ miles long; comprises 72 locks, 110 x 18 feet, with a depth of 7 feet of water, accommodating, as a maximum, vessels of 240 tons burden. The original canal was completed in 1836, and the enlargement to the above dimensions in 1862. The total cost of construction was \$51,609,200.

There is now under construction an enlarged canal, authority for which was given in 1903. The locks were to be 328 feet long by 28 feet wide in the clear, with 11 feet of water on the mitre sills. The estimated cost was \$100,562,993. It was intended to accommodate barges of 1,000 tons burden. In 1905 the width of the locks was increased to 45 feet, and construction is proceeding on this basis. When completed, it will permit the passage of lake boats carrying 2,600 tons.

The through route between Montreal and Fort William and Port Arthur, on the west shore of Lake Superior, comprises 73 miles of canal, with 48 locks, and 1,167 miles of river and lake water, or a total of 1,230 miles. From Montreal to Duluth, at the southwest of Lake Superior, the total distance is 1,354 miles, and to Chicago, 1,286 miles. A summary of this route will be found in Part VIII., with details of the several works. At Port Arthur and at Fort William (about six miles apart), the Canadian Pacific railway gives communication westward and eastward, and the Canadian Northern railway westward and with the south at Fort William. A line of railway has been built from Fort William by the Grand Trunk Pacific railway to give communication with the Transcontinental railway, and over that road to Winnipeg.

The approaches to the canals and the channels through the intermediate river reaches are well defined, and are lighted with gas buoys under the control of the Department of Marine and Fisheries, admitting of safe navigation, in the hands of competent pilots, both by day and night. In the cases of the Sault Ste. Marie, the Welland, the Coruwall, the Soulanges and the Lachine, they are well lighted throughout by electricity. The Sault Ste. Marie, the Welland, the Cornwall, the Soulanges and the Lachine canals are electrically operated. The Farran's Point canal is lighted with acetylene gas.

On the Lachine canal, the principal features of work have been the facing with concrete of the slope walls in the reach above the Côte St. Paul locks, and the widening of the canal at this point, and the provision of wharf accommodation at St. Henri and Côte St. Paul, of which a large proportion was completed during the year.

On the Soulanges canal similar work of concrete protection has been carried on.

The action of the waters of Lake St. Francis on the clay dykes at Ste. Barbe and Hungry bay is being met by the construction of boulder protection, which is now completed at Hungry bay, at which point the macadamizing of the roadway on the top of the dyke has been completed for a considerable distance.

The high water in the River Ottawa prevented the completion of the repairs to the Carillou dam during the year, but all preparations had been made for resumption of work in the following season.

On the Chambly canal, the electric power house was completed, but the electric machinery has not yet been installed.

The improvements in the harbour of St. Johns, placed under contract in 1908, comprise the removal of an old wharf, an extension of the present canal wharf up to the railway bridge, the building of a new wharf, and a breakwater, &c. They were completed during the year so far as regards the works above the bridge.

On the Trent canal, the extent completed remains the same as in the previous year, namely, 160 miles, extending from Lake Simeoe to Healeys Falls, a point sixteen miles below the village of Hastings; the eanal was operated for this distance. The water was satisfactorily maintained at a uniform height throughout the year.

A considerable amount of work in the way of repair and improvement was executed, notably in the dredging of portions of the River Otonabee, the raising of private wharfs in Stony lake to meet the raise in water level necessitated by the requirements of navigation, various improvements at Fenelon Falls, and in the repair of the

several dams controlling the various reservoir systems acquired from the Ontario govcrument. In two important cases, new concrete dams were built.

The construction of the Ontario-Rice Lake division of the canal is dealt with in an interesting and comprehensive report of the superintending engineer, which will be found in the appendices hereto.

The division is 56½ miles in length, extending from Trenton, on Lake Ontario, to Rice lake, of which five out of the seven sections into which it has been divided are under contract. It follows the River Trent, and will comprise nine and a half miles of canal, thirteen miles of subaqueous channel, and thirty-four miles of deep river; the total risc between low water level on Lake Ontario and normal navigation level at Rice lake is 369 feet, to be overcome by eighteen locks. The river level will be controlled by fourteen concrete dams; sixteen bridges will be required, six of which are for the accommodation of railways; they will all be swing or bascule spans except one. locks will be of concrete, with 8 feet 4 inches of water on the sills; they will be 175 feet long between the hollow quoins, and 33 feet in width, accommodating barges of 1,000 tons, about 150 feet long and of 30 feet beam, drawing 8 feet of water. The work involved will require the removal of about 1,500.000 cubic yards of earth, 1,250,000 cubic yards of rock, loose and solid, and the building of about 400,000 cubic yards of concrete. The approximate cost is set down at \$6.750.000; of this, up to March 31, 1910, there had been expended the sum of \$1,285,092. Five of the locks and six of the dams have been built. Details of the work done will be found in the above mentioned report of the superintending engineer.

In addition to the work on this division, a contract for the construction of a new concrete dam at Burleigh Falls has been entered into to replace the present dilapidated wooden structure. This is part of a scheme to raise the level of Lovesick lake to the level of Deer bay, a difference of about four feet, dispensing with the present lift lock at Lovesick, and the flight lock at Burleigh Falls, and replacing them by a single lock at the latter place.

On the Lindsay section, the new lock and dam at Lindsay, placed under contract in January, 1909, are finished, and the dam sluices have been of service in dealing with the spring freshets, which have caused trouble in the past in the Scugog river above Lindsay.

On the Rosedale section, a contract was entered into in February, 1908, for the work of building a new canal between Lakes Cameron and Balsam, 1.8 mile in length, together with a new lock and dam to take the place of the old wooden structures; thus shortening by 1.2 mile, the distance between the two lakes. The lock is completed and the excavation for the canal.

The Holland River division extends from Cook's bay, Lake Simcoe, to Holland Landing, 8½ miles, all on the Lake Simcoe level, and from Holland Landing to Newmarket, 4¾ miles, on which distance there is a rise of 43 feet, to overcome which three locks will be required, together with three dams; the work on this section (No. 2) was placed under contract in February, 1908, and about 37 per cent has been executed up to March 31, 1910.

Hydrographic surveys of the various lakes embraced in the Trent navigation have been carried on, with the object of making a complete set of charts of these waters.

No action has, so far, been taken with regard to the adoption of a route for the northern section of the canal, from Lake Simcoe to Georgian Bay, beyond the making of surveys of alternative routes.

On the Galops canal, the work of removing certain shoals in the River St. Lawrence west of the upper entrance to the canal was completed, the result being to afford a clear channel, 17 feet deep, between the upper entrance and the lower end of what is known as the 'north channel.' All the enlargement works undertaken in connection with the Ontario-St. Lawrence canals district have now been completed.

At the same time, it should be noted that the intermediate river stretches present some serious difficulties, vessels being compelled to cross the river from side to side in order to follow the devious marked channel; a drawback to navigation which could be remedied by straightening the channel at certain points, removing shoals and improving the entrances to the Farran Point and Rapide Plat canals.

On the Cornwall canal, preliminary steps were taken for the improvement of the upper entrance of the canal, where the approach to the lock is extremely difficult, and plans and specifications have been prepared for an approach wall and certain dredging, &c.

The permanent work of repair of the serious break in the south canal bank, which occurred in June, 1908, has been completed, under contract, during the year, and by carrying it on, day and night, the canal was opened for navigation on May 3, 1909. The whole of the works were completed in the following October. It may be observed that, notwithstanding the grave nature of the break, which carried away about 200 feet of the bank, the actual delay to navigation was only seventeen days, a temporary dam and diversion having been made to obtain this result. In view of evidence of weakness in the bank immediately west of the washout, it was decided to extend the new concrete wall for a further distance, and the work has been placed under contract.

On the Rideau canal, the freshets of 1909, the highest on record, caused a very serious washout at Black Rapids, the water cutting into the sand bank of the river at the end of the new dam, making a breach of about 200 feet in length. The work of repair, exceptionally difficult under the circumstances, entailed a delay of six weeks in opening the canal to navigation. A considerable amount of work of repair and improvement at various points on this extensive water course was carried out during the year.

Ou the Welland canal, the clearing up of the harbour at Port Colborne is in progress, and a channel to the elevator 22 feet deep when there is a depth of 14 feet on the lock sills, is now available. A spur line of railway has been built from the Grand Trunk railway to the elevator. In connection with the surveys that have been conducted in order to obtain information in the event of decision to build a new Welland canal, borings have been made to determine the nature of the ground at various points.

Ou the Sault Ste. Marie canal, the work of improving the channel at the upper entrance of the canal by deepening it to 21 fect 5 inches at low water stage and providing a width of 500 feet, was completed; the middle section, through the Vidal Shoals, about two miles above the lock, being finished during the year. The channel-way on the north side of the canal above the north pier is under contract.\*

<sup>\*</sup> It may be noted that a new lock is now in course of construction by the United States government. which is to be 1,350 feet long by 80 feet wide, and to have a depth of 25 feet on the sills at low water stage.

On June 9, 1909, an accident of a most serious character occurred, the details of which are fully given in the report of the superintending engineer herewith. A steamer was in the lock, and another just entering the upper end when a third steamer entered the lower approach, and its engines failing to reverse at the proper time, the vessel was carried against one of the lower lock gates, forcing it back. The resultant rush of water was most disastrous, both to the vessels and the lock works, all four of the gates being broken, and other damage done. The immense movable dam above the lock was brought into action and proved of service, though some points of weakness developed in it. Navigation was not resumed until the 21st.

On two occasions during the season, the Poe lock, on the American side of the river, was out of commission for periods of three and eight days, respectively. As indicating the extent of traffic at this point, and the importance of having sufficient accommodation to deal with it in the event of accident, it may be observed that on the first of these occasions, the Canadian canal was worked continuously for 101 hours, passing 184 vessels of an aggregate of 553,287 tons register, and on the second for 264 continuous hours, passing 460 vessels of a total of 1.372,145 tons register. There were 112 vessels at one time waiting for passage; a formidable blockade which entailed a loss in their earnings estimated at \$250,000.

# RAILWAY STATISTICS.

The digest of the sworn statements of railway companies relating to their operations in Canada for the twelve months ended June 30, 1909, is prepared by the Departmental Comptroller of Statistics, and is issued as a separate report.

# CANAL STATISTICS.

The traffic statistics of the Tominion canals for the season of navigation of 1909 are compiled under the direction of the same officer, and are also issued as a separate report.

I have the honour to be, Sir,

Your obedient servant.

A. W. CAMPBELL.

Deputy Minister, and Chairman of the Government Railways Managing Board.

# **APPENDICES**



# PART I

# STATEMENTS

OF THE

# ACCOUNTANT OF THE DEPARTMENT

SHOWING

# EXPENDITURE ON RAILWAYS AND ON CANALS

(INCLUDING SUBSIDIZED RAILWAYS)

# AND RECEIPTS

FOR THE FISCAL YEAR 1909-10

ALSO FOR PREVIOUS YEARS



STATEMENT showing the amount expended by the Department of Railways and Canals, Dominion of Canada, during the Fiscal Year ended March 31, 1910.

# CANALS.

Name of Work.	Chargeable	Chargeable	CHARGEABLE	TO REVENUE.
Manie of Work.	Capital.	to Jucome.	Staff.	Repairs.
Canals.	\$ ets.	\$ cts.	\$ ets.	\$ ets.
Beauharnois		24,319 49 10,410 09	23,512 72	11,925 28
Chambly	30,479 41 89 54 2,057 86	8,207 00 35,549 06 13,694 97	29,198 76 76,519 49	22,825 53 51,330 83
Lachine. Murray. Rideau	215,611 98	70,000 20 9,225 73	77,701 55 4,378 74 48,324 13	75,247 71 2,674 57 95,188 97
Sault Ste. Marie Soulanges. Ste. Anne's Lock	46,809 13 153,022 23	$\begin{array}{c} 147,147 \ 52 \\ 2,299 \ 93 \\ 2,339 \ 76 \end{array}$	$\begin{array}{r} 18,976 \ 64 \\ 32,851 \ 69 \\ 2,267 \ 60 \end{array}$	20,300 77 46,287 16 2,446 28
St. Cawrence River Removal of shoals	28,815 36 5,573 96	1,925 08	4,137 64	1,752 66
St. Peters. Trent. Welland. Williamsburg	1,000,000 00 168,247 17	59,483 51 75,233 28	3,449 43 36,800 42 136,783 47 20,682 88	238 14 54,206 13 77,723 23 29,645 76
Totals	1,650,706 64	459,835 62	515,585 16	491,793 02
General on Canals.				T 400 00
Dredge Vessels—Lachine				7,668 29 14,219 64 553 65
Officers, &c Sunday labour Surveys and Inspections		2,012 52	30,109 89	
Quebec Canals Maintenance		4,596 96	20,119 08	
Miscellaneous works not provided for		4,812 29		
Total on Canals.	1,650,706 64	$\frac{29,421 \ 06}{489,256 \ 68}$	89,314 10 604,899 26	22,441 58 514,234 60
	2,000,107 04			011,207 00

Grand total, canals, \$3,259,097.18.

STATEMENT showing the amount expended by the Department of Railways and Canals, &c.—Concluded.

# RAILWAYS.

Name of Work,	Chargeable to	Chargeable to	Chargeable to Revenue.		
	Capital.	Income.	Working Expenses.		
Railways.	\$ ets.	S cts.	S ets. S ets		
Intercolonial National Transcontiuental Prince Edward Island Windsor Branch	19,968,126 86 206,396 97		8,645,070 33 427,283 73 23,549 90		
Total	21,452,933 28		9,095,903 96		
General on Railways.					
Contribution to McGill University		2,048,097 05 1,966 62 112,465 04 46,500 00 97 33 17,085 87 2,000 00			
August Preparing plans, &c Railway Grade Crossing Fund	53,042 63	111,788 02			
		2,360,214 59			
Less amount received from the Phoenix Bridge Company		100,000 00			
Total	53,042, 63	2,260,214 59			
Total on railways	21,505,975 91	2,260,214 59	9,095,903 96		
Grand to al Railways, \$32,862,094.46 Miscellaneous.			+		
Cost of litigation		4,706-79			
Grand totals railways and canals, including niscellaneous	23,156,682 55	2,754,178 06	9,700,803 22 514,234 6		

Total amount of expenditure, \$36,125,898-43.

Note.—Up to and including the year 1906, the fiscal year ended June 30, after which it ends March 31.

W. C. LITTLE, Accountant.

STATEMENT showing the amount expended on Construction, Renewals, Ordinary Repairs and Working Staff, up to March 31, 1910.

ST. PETER'S CANAL.

S cts.   C		_			Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Since							\$ cts.	\$ ets.	\$ ets
Since	Governmentexpend	itureprior to C	onfedera	tion		156.523 32			
1869   70,719 80					1868				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11	11						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11	- 11				46,193 57		
1873	11		11						555 78
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11	11						
1875   20 97   560 00   889 3     1876   11,125 00   641 55       1877   63,330 18   600 00   17 4     1878   26,511 51   600 00       1879   107,337 75   631 50       1880   80,120 54   400 00       1881   69,434 76   959 58       1882   484 00   1,920 54   200 6       1883   2,471 40   2,661 47   367 8       1884   2,471 40   2,661 47   367 8       1885   16,820 15   1,929 11   183 1       1885   1,087 75   750 00   2,777 13   343 2       1885   1,087 75   750 00   3,085 29   353 3       1886   1,889   500 00   3,085 29   353 3       1889   500 00   3,085 29   353 3       1890   3,110 15   255 3       1891   1892   14,387 00   30,936 82   3,007 70   1,461 2       1893   811 59   9,987 78   2,933 15   1,566 3       1894   437 05   3,852 21   2,935 94   1,986 7       1895   868 44   26,222 46   2,499 81       1896   1,455 21   16,743 64   2,182 04       1899   2,813 26       1890   2,813 26       1890   2,813 26       1900   2,833 24   1,483 3       1901   2,311 26   2,730 44   841 6       1902   10,014 43   2,938 81   24       1903   2,836 49   764 4       1904   3,126 94       1905   3,300 10   2,969 90   1,005 9       1907   2,468 78   246 8       1909   3,282 22   552 7       1910   3,282 22   552 7       1910   3,449 43	11								
1876	II								
1877   63,330   18   600   600   17   4	11								999 99
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	"					63 330 18			17.45
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	"								11 40
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	"					107.337 75			
1881   69,434 76   959 58   1,920 54   200 66   1,882   484 00   1,920 54   200 66   1,883   1,883   1,884   2,471 40   2,601 47   367 88   1,885   16,820 15   1,929 11   183 1   1886   2,316 85   2,366 67   297 8   1,887   1,087 75   750 00   2,777 13   343 2   1,887   1,087 75   750 00   3,085 29   353 3   1,888   1,889   1,888   1,889   1,888   1,889	11					80.120 54			
1882	0		11						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	19	H.	11					1,920 54	200 63
1	11		11		1883				232 42
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11	11						367 85
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	11	11						183 11
1888   3,217 77   1,588 4   353 3   3,085 29   353 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   255 3 3   3,110 15   2,110 15   3,1	11	11	11					2,360 67	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11					1,087 75	750 00	2,777 13	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11						500.00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11			• •					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						072 65			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11			• •					1,986 70
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11						26,222 46		353 55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	It.	11	11		1896	1,455 21	16,743 64		260 90
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	10	11		1897			2,728 38	1 20
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11	11	11				111 70		453 85
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11	11						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	1	- 11						1,483 30
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	1						2,730 44	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	H						10,014 43	2,939 81	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11			٠.					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	11					3 000 10		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	"					, 3,000 10		
1	11	"							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11								942 64
1910									532 78
									238 14
	Less-Refunds	in 1897-8							
Total *648.547 14 151.134 50 87.458 56 33.443 2									33,443 25

Agreeing with Public Accounts, 1910, page 4...... \$ 492,023 82

W. C. LITTLE,

Accountant.

1 GEORGE V., A. 1911

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

BAIE VERTE CANAL.

overnment expenditure prior to Confederation         \$ cts.         \$           " since         1868         1869           " " " " 1870         1870           " " " " 1871         17,929           " " " 1872         6,399           " " " 1873         14,943           " " " 1874         4,018           " " " 1875         443           " " " 1876         110           " " " 1877         22           " " " 1879         1879           " " " " 1880         1889		_			Year ending.	Capital.	Income.
Since   1868   1869   1870   17,929   1871   17,929   1872   6,389   1872   6,389   1874   4,018   1874   4,018   1875   443   1876   110   1877   22   1879   1880   1879   1881   1883   1884   1884   1885   1884   1885   1886   1887   1889   1889   1889   1890   1891   1906   1906   1906   1906   1906   1907   1906   1907   1906   1907   1908   1908   1908   1909   19							\$ c
1869   1870   1871   17,929   1871   17,929   1872   6,339   1873   14,943   1875   4448   1875   4448   1875   4448   1876   1100   1877   22   1878   1879   1889   1889   1889   1889   1889   1899   1899   1899   1899   1899   1899   1899   1899   1900   19					******		
1870							
1871   17,929							
1872   6,399   11,474   14,018   1874   4,018   1874   4,018   1876   1110   1876   1110   1876   1110   1877   22   1878   1889   1889   1889   1889   1889   1889   1889   1889   1889   1889   1889   1899   18							17 000 5
1873   14,943   1874   4,018   1875   443   1875   443   1876   110   1877   22   1878   1879   1880   1881   1882   1883   1883   1884   1885   1888   1889   1889   1890   1890   1890   1904   1906   19							2 200
1874   4,018   1875   4443   1876   1110   1877   22   1878   1879   1880   1884   1889   1890   1							
1875   443   110		- 11					
1876   110   1877   22   1878     1879     1880     1881   520     1881     1882     1883     1884     1885     1886     1887     1888     1888     1889     1890     1891     1894     1895     1896     1896     1899     1899     1899     1890     1890     1890     1891     1895     1896     1899     1890							
1877   22   1878   1878   1879   1880   1880   1881   520   1882   1883   1884   1884   1886   1886   1886   1886   1886   1886   1888   1889   1889   1890   1900   190							
1878							
1879							
1880   1881   520   1882   1883   1883   1884   1885   1885   1885   1885   1886   1887   1890   1							
1881   520   1882   1883   1884   1884   1884   1885   1886   1887   1889   1890   1							
1882   1883   1884   1884   1885   1885   1886   1889   1891   1896   1896   1906   1906   1906   1906   1906   1906   1906   1906   1906   1908							520 (
1883				***************************************		1	020 (
1884   1885   1885   1886   1887   1887   1888   1889   1890		"			1883		
1885   1886   1887   1887   1888   1889   1890   1891   1893   1894   1898   1899   1900							
1886   1887   1888   1889   1889   1890   1891   1891   1892   1893   1894   1896   1897   1898   1899   1904   1904   1905   1906   1906   1907   1907   1908   1909   1909   1908   1909							
1887   1888   1888   1889   1890   1890   1890   1890   1890   1892   1893   1894   1895   1898   1899		i.					V
1888   1889   1890   1890   1891   1891   1892   1893   1894   1895   1895   1897   1898   1994   1906   1906   1906   1906   1906   1907   1908   1909   1908   1909		11					
1889   1880   1890   1891   1892   1893   1893   1894   1895   1896   1899   1906   1906   1907   1908   1908   1908   1908   1908   1908   1909		ti.					
1890   1891   1892   1893   1893   1894   1895   1895   1898   1898   1904   1905   1906   1907   1907   1908   1908   1909	11						
1891   1892   1893   1894   1895   1896   1996   1996   1998   1998   1998   1998   1998   1999			+1				
1892   1893   1894   1895   1896   1906   1906   1908   1908   1909	11	11	- 11				
1893   1894   1895   1895   1896   1897   1898   1996   1996   1996   1998   1998   1998   1999   1999   1999   1999   1999   1999   1999   1999   1999   1999   1998   1998   1999   1999   1999   1999   1998   1998   1999   19	11	11	- 11				
1894   1895   1895   1896   1897   1898   1996   1998   1998   1999   1998   1998   1999	0	11			1893		
1896   1897   1898   1899   1906   1908   1909	4	11					
1897   1898   1898   1899   1906   1906   1906   1907   1908   1909	11	11	- 11		1895	1	
1898 1889 1900 1900 1901 1902 1911 1903 1904 1905 1906 1906 1907 1908	11	11	11		1896		
1898 1889 1900 1900 1901 1902 1911 1903 1904 1905 1906 1906 1907 1908	ч	11	11				
1899   1890   1900   1901   1902   1903   1904   1905   1906   1907   1908   1908   1909		11	1				
1901   1902   1903   1904   1904   1905   1906   1907   1908   1908   1909	4	11	11				
1902   1903   1904   1904   1905   1906   1907   1908   1909	11	11	11		1900		
1903   1904   1904   1905   1905   1906   1907   1907   1908   1909	n	11	11				
1904 1905 1906 1907 1908 1908	11	11	11				
1905 1906 1 1907 1 1908 1 1909	11	11	21				
1906   1906   1907   1907   1908   1909	11	11	11				
1 1907 1 1908 1 1909	H H	11	11			1	
1908 1 1909	11	11	11				
1909	H.	11	11				
	9	11	11				
1910	11	11	11				
	11	11	- 11		1910		

W. C. LITTLE,

· Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

LACHINE CANAL.

		LACHIN.	E CANAL.			
	Year ending.	Сар	ital.	Renewals Chargeable to Income.	Staff.	Repairs.
Expenditure by Imperial Government.  Government expenditure prior to Confederation	1868 1869 1870 1871 1872 1873 1874 1875 1876 1876 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1900 1901 1902 1903 1904 1905 1907	\$ cts. 40,000 00 2,547,532 85 2,000 00 36,708 15 7,824 28 158,618 35 197,420 52 327,769 39 1,439,375 73 1,484,619 63 958,053 30 369,566 74 292,165 51 292,165 51 292,165 51 292,165 51 292,165 51 292,165 51 292,165 51 210,509 42 28,772 52 19,414 34 76,032 96 7,448 03 217,53 87,852 35 445,983 21 64,345 14 189,944 36 184,998 25 282,052 48 216,717 44 162,351 83 125,009 41 97,305 52 113,328 26 58,426 92 181,487 06 112,460 47 103,798 28 18,40 85	\$ cts.	\$ cts.  1,852 70  12,231 40  35,158 21  2,978 66 1,859 68  12,981 59 7,996 38 972 71 8,238 46 16,155 75 27,480 80 50,937 40 17,152 48 32,405 20 8,193 15 14,664 21 819 62 3,103 99 12,210 88 12,072 87 36,249 02 109,893 43 162,705 14 144,996 37 133,518 77 65,872 25	\$ cts.  13,742 05 14,209 02  15,834 49 17,478 52 16,076 93 23,601 03 25,811 07 28,502 01 33,797 73 33,148 86 39,062 97 42,338 84 38,950 90 39,027 99 41,158 90 45,554 91 48,624 51 49,004 85 50,960 10 53,113 97 52,229 61 54,110 67 53,114 34 50,721 69 52,729 37 53,185 00 60,174 03 56,337 44 50,721 69 52,729 37 53,185 00 60,174 03 56,337 44 50,721 69 52,729 37 53,185 00 60,174 03 56,337 44 50,721 69 52,729 37 53,185 00 60,174 03 56,337 31 86,209 33 69,762 03 77,233 17 86,209 93 84,708 78 53,308 14 74,222 78	\$ cts.  10,431 51 12,085 84  13,302 39 15,093 25 12,334 69 34,300 60 22,828 66 30,057 34 29,103 65 19,824 33 13,646 41 12,400 78 10,223 62 19,888 33 17,116 46 18,199 59 19,683 24 20,199 78 19,988 33 17,116 46 18,199 59 19,683 24 20,199 78 19,199 18 22,567 81 19,999 38 36,292 98 67,499 62 51,616 79 40,939 70 25,891 45 24,950 20 25,820 73 33,391 92 35,776 90 31,988 81 50,005 48 45,853 97 53,054 20 50,660 92 65,202 42 60,064 84 47,465 20 70,427 37
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1908 1909 1910	203,307 25 359,041 77 215,611 98		92,362 48 143,526 35 70,000 20	72,049 32 77,701 55	\$2,081 39 75,247 71
Cost of enlargement		210,011 ./0	9,786,178 93			
Total				1,238,590 15	2,101,636 23	1,412,676 79
T told and distance and					812 375.71	

2,990,104 15

Agreeing with Public Accounts balance sheet, 1910, page 4.... \$ 9,385,607 63

Department of Railways and Canals, Ottawa, July 23, 1910. W. C. LITTLE,
Accountant.

1 GEORGE V., A. 1911

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued. BEAUHARNOIS CANAL.

				Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ cts.	\$ cts.	\$ ets.	\$ cts.
Government expen	diture prior to C	onfederat	ion		1,611,424 11			
0	prior	11		1868		63,193 75	9,349 99	6,216 98
11	11			1869		55 00	9,626 99	6,498 57
	11	- 11		1870		27 50	10,117 57	6,384 81
11		11		1871			12,316 53	5,722 36
tr.	11	**		1872		27 50	11,792 46	15,733 38
11	- 11	11	- •	1873		5,122 50	12,210 73	9,882 06
н	11	*1		1874		26 00	15,392 51	10,990 56
11	11			1875		36 00	14,399 32	12,253 01
11	11	11		1876			14,465 86	17,170 83
11	н			1877			14,377 63	15,207 36
11	- 11	11	• •	1878			14,383 37	9,861 05
11	11	11		1879 1880	9ee 15		15,015 86	10,370 71
"	- 11	11			266 15		15,362 61	8,997 34
- 11	П	11		1881 1882			17,659 93	10,770 67
11	17	- 11		1883		6,727 44	18,804 53 18,287 77	20,813 86 15,826 71
	11			1884		3,277 98	19,107 38	16,232 61
"		11		1885		7,999 79	18,960 40	14,637 70
		"		1886		8,491 80	19,228 90	14,356 00
"i				1887		3,633 57	18,867 45	14,999 88
	10	"		1888		14,411 97	19,325 05	14,285 98
				1889		10,993 52	20,019 11	14,982 54
		11		1890		10,000 02	19,847 42	14,999 20
11	11	11		1891		17,085 68	18,886 86	12,537 39
11	11	11		1892		1,696 23	20,050 01	14,999 80
11	11	11		1893			20,348 34	14,107 11
11	11	11		1894		6,547 72	20,574 53	13,903 46
11	11	18		1895		27,982 93	10,428 59	12,299 49
P	11			1896			20,725 47	15,050 S5
11	10	11		1897		9,813 15	21,012 64	14,862 98
11	11	11		1898	25,000 00	5,799 34	20,650 00	16,164 92
49	ti.	11		1899		1,000 00	20,613 22	13,463 01
11	11	11		1900		4,959 22	20,147 59	14,505 30
	H H			1901		483 40	20,118 42	14,199 12
	II.	11		1902			16,682 52	6,532 33
19	11			1903			8,218 14	10,063 38
11	11	11		1904			9,236 27	11,936 37
11	11	H		1905		14,949 83	9,086 68	10,499 99
11	19			1906		2,531 24	9,291 91	18,640 71
11	11	- 11		1907		598 64	7,552 02	11,711 09
11	11	- 11		1908		2,260 81	7,032 31	13,019 76
11	-11	- 0		1909		21,758 84		
11	11	H		1910		24,319 49		

W. C. LITTLE.

Accountant.

<sup>\*</sup> See page 11 for total cost of St. Lawrence River and Canals. † This canal being under lease since 1908, no expenditure has been incurred for maintenance nor operation.

STATEMENT showing the amounts expended on Construction, Renewals, &c.--Continued.

ST. LAWRENCE RIVER AND CANALS, SURVEYS, &c.

_			Year ending.		Chargeabl	е то Сарітаі	**	Chargeable to
			Year	North Channel.	River Reaches.	Galops Channel.	Total.	Income.
Couchantout	anditura n	mion to		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
Government exp Confederation		rior to					18,442 85	98,378 46
Government ex		since				(	,	1
<ul> <li>Confederation</li> </ul>			1868					
11	31		1869					
tt.	31		1870					
0	13		1871					
11	11		1872				20.041.00	0
0	11	•	1873				33,241 69	
	- 0	• •	1874				26,541 30	
	11	• • •	1875				20,611 36	
H	11	• •	1876				50,215 47	
11	0	• • •	1877				47,377 31	
11	(1	• • •	$\frac{1878}{1879}$				5,570 46 9,265 77	
11	11	• •	1880				9,214 56	
17	- 11	• •	1881				6,927 96	
"		• •	1882		6,933 45	22,000 00	28,933 45	
"			1883		3,574 31	41,300 00	44,874 31	
	11		1884		15,546 03	74,300 00	89,846 03	
**	**		1885		13,710 17	101,400 00	115,110 17	
			1886		16,251 73	99,800 00	116,051 73	
H	+1		1887		20,037 31	54,400 00	74,437 31	
11	11		1888		16,082 85	40,400 00	56,482 85	
11	*1		1889		1,293 92	17,200 00	18,493 92	
	++		1890		18,279 91	5,700 00	23,979 91	
D	11		1891		35,137 25	1	35,137 25	
31	11		1892		59,779 31		59,779 31	
11	**		1893		52,643 39		52,643 39	
11	0		1894		13,721 66		13,721 66	
48	1+		1895		1,223 72	181,552 03	182,775 75	
11	1+		1896		7,457 05		7,457 05	
- (1	12		1897		12,347 31		12,347 31	
12	11		1898	171,336 65	7,491 11	32,710 00	211,537 76	
11	**		1899	461,979 50	9,366 47	42,430 00	513,775 97	
11	0		1900	225,000 00	72,484 41	50,000 00	347,484 41	
11	11		1901	184,790 34	19,389 75	91,211 97	295,392 06	
11	11		1902	125,000 00	29,268 64	24,037 85	178,306 49 168,266 22	
11	11	• •	$\frac{1903}{1904}$	126,833 94	16,432 28 9,634 66	25,000 00		
11	**		1905	68,595 42 93,025 89		6,450 00	84,680 08	
0	11		1906	83,028 98	25,743 51	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	168,504 10 $109,535 24$	
11		• • •	1907	61,528 34		13,350 00	74,878 34	
- 11			1908	40,500 00		12,976 77	53,476 77	
11		::	1909	42,770 45		25,378 21	68,148 66	
11	11		1910	34,389 32		2,057 86	36 447 18	13,694 97
			2020					
Tot	1			1,718,778 83	409 000 00	1,039,895 65	9 400 019 41#	112,073 43

<sup>\*</sup> In this total is included an expenditure on capital account of \$227,403.73 on the St. Lawrence River and Canals for the period previous to 1882.

# ST. LAWRENCE RIVER AND CANALS, SURVEYS, &c.

St. Lawrence River and	Canals, as above	\$ 3,469,913 41
Beauharnois Canal, see	page 10	1,636,690 26
	n 14	
Lake St. Louis	"	298,176 11
Soulanges Canal	п 29	7,126,135 61
Lachine Canal, from pr	for to Confederation to June 30, 1875, see page 9.	. 2,950,104 15
Lake St. Francis, see pa	ge 13	75,906 71

Agreeing with Public Accounts balance sheet, 1910, page 4.......\$33,277,305-08

DEPARTMENT OF RAILWAYS AND CANALS,

W. C. LITTLE.

OTTAWA, July 23, 1910.

Accountant.

1 GEORGE V., A. 1911

STATEMENT showing the amounts expended on Construction, Renewals, &c.--Continued. LAKE ST. LOUIS.

				Year ending.	Chargeable to Capital.	Chargeable to Revenue.
					\$ ets.	\$ et
rernment	expenditure	e prior te since	o Confederation	 1868		
11	11	SINCE	11	 1869		
,			н	 1870		
	17	11	11	 1871		
,	tf.	11	11	 1872		
1.4	n - 1	11	O.	 1873		
	11	11	11	 1874		
-	- 11	0	1	 1875		
14	11	11	11	 1876		
	1	11	11	 1877		
	11	- 11	11	 1878		
	11	11	EF.	 1879		
14	11	11	EF.	 1880		
	21	- 11	9	 1881		
11 .	11	- 11	0	 1882		
	0	- 11		 1883		
а	14	- 11	11	 1884		
VI.	14	- 0	14	 1885		
	- 11	1	- 11	 1886		
**	11	11	11	 1887		
**	D	- 11	0	 1888 1889		
	11	11	11	 1890		
	11	O.		 1891		
н	O	11	0	 1892		
11	11	11		 1893		
- 11	11	- 11	11	 1894		
11	11	0	11	 1895	4,753 14	
- 11				 1896	49,909 31	
11	11	17	"	 1897	73,300 41	
11	11	17	"	 1898	64,495 83	
11	**		"	 1899	57,607 79	
11	11	11		 1900	11,765 70	
	+3	11	11	 1901	12,918 31	
	u.			 1902	6,000 00	
14			11	1903	9,508 72	
4	O.	(1	11	 1904	7,916 90	1
11	11	- 0	ti	 1905	†	
11	16	- 0	(1	 1906	+	1
41	11	- 1	ri e	 1907	†	
0	O CO	- 0	(1	 1908	+	
11	**	11	11	 1909	†	
		11	11	 1910	†	

<sup>\*</sup> Included in total cost of St. Lawrence River and Canals, see page 11. † Transferred to Department of Marine and Fisheries in 1905

W. C. LITTLE,

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued. LAKE ST. FRANCIS.

Government e.	xpenditu	re since Con	nfederation		1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878	S cts.	\$ cts.
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11 11 11 11 11 11 11 11	10 11 11 11 11 11 11 11 11		1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 0 0 0 0 0 0 0 0 0		1870 1871 1872 1873 1874 1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 11 11 11 11 11 11 11 11 11 11 11 11	0 0 0 0 0 0 0 0 0		1871 1872 1873 1874 1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 11 11 11 11 11 11 11 11 11 11 11 11	0 0 0 0 0 0 0 0		1872 1873 1874 1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 01 11 11 11 11 11 11 11 11	11 10 10 10 10 10 10 10		1873 1874 1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 11 11 11 11 11 11 11 11 11 11 11 11	0 11 11 11 11 11	11 11 11 11 11 11		1874 1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 11 11 11 11 11	11 17 11 11 11 11	0 11 11 11 11 11		1875 1876 1877 1878 1879		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 11 11 11 11	11 11 11 11	11 11 11 11 11		1876 1877 1878 1879		
0 0 10 10 10 10 10 10 10 10 10	11 11 11 11 11	11 11 11	11 11 11 11		1877 1878 1879		
0 0 0 0 0 0 0 0 0 0	11 11 11 11	11 11 11	71 11 17		1878 1879		
0 0 0 0 0 0 0 0 0	U U U	11 11	11 11 11		1879		
0 0 0 0 0 0 0 0 0 0	11	11	1† 11				
11 11 11 11 11 2 11 11	11	0	11				
11 11 10 10 10 20 11 11	11				1881		
99 10 10 10 10 11					1882		
10 10 .0 10 11		11	11		1883		
19 .0 19 41 18	11	11	11		1884		
19 .0 19 41 18	11	11	11		1885		
19 11 18		11	71		1886		
11 11	11	11	**		1887		
16	71	11	11		1888		
	11	11	0.		1889		
H H		11	Ti .		1890		
	11	11	11		1891		
11	11	- 11	11		1892		
(1	0	t)	Ti .		1893		
91	11	11	11		1894		
11	11	11	11		1895		
11	11	- 11	11		1896		
11					1897	0.400.00	
41	11	- 11	- 11		1898	3,420 00	
11	*1	- 11	**		1899	23,110 00	10.000.00
11	17	+1	11		1900	15,431 46	12,288 39
11	11	. "	FF	******	1901	15,000 00	8,060 30
11	**	17	11		1902	13,945 25 5,000 00	
**	71	**			1903 1904		9 100 59
11	- 11	**	"		1904		2,199 52
11	H D		11		1906	+	
11	"	11	11		1907	+	******
11	11	11	11		1908	1	
11	11	11	11		1909	+	
11	11	11	"		1910	+ •	
· ·	Total	"	.,		1010	*75,906 71	22,548 21

 $<sup>^*</sup>$  Included in total cost of St. Lawrence River and Canals,  $\sec$  page 11. † Transferred to Department of Marine and Fisheries in 1905.

W. C. LITTLE,

Accountant.

1 GEORGE V., A. 1911

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

CORNWALL CANAL.

_	Year ending.	Chargeabl	e to Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
Government expenditure prio to Confederation	1868 1869 1870 1871 1872 1873 1874 1875 1875 1876 1887 1888 1888 1888 1888 1889 1890 1891 1892 1893 1894 1895 1898 1899 1899	\$ cts. 1,933,152 69 10,692 04 1,780 00 1,780 00 49,211 37 145,015 45 143,092 05 109,454 95 53,948 14 44,587 61 21,728 93 22,018 13 62,034 90 57,820 83 46,966 43 67,945 74 163,993 85 398,555 25 398,555 25 398,555 25 48,408 31 48,487 51 133,208 96 448,408 31 438,487 51 133,208 96 37,649 00 169,889 51	\$ cts.	_	8 ets, 11,244 47 10,347 91 10,368 16 11,848 39 10,594 30 13,042 25 13,405 20 13,351 91 13,375 70 13,825 50 13,817 96 14,440 33 15,173 60 15,052 20 18,283 67 18,475 48 15,988 96 15,994 80 17,520 54 16,077 72 15,596 66 15,173 01 15,344 02 15,414 56 15,414 56	\$ cts.  3,774 18 3,859 14 7,145 42 8,891 61 8,163 12,467 65 7,610 70 7,097 34  6,423 67 6,440 54 4,935 21 4,983 15 9,735 76 5,524 10 6,634 62 8,361 71 9,007 73 12,368 51 11,832 83 12,100 29 13,942 64 58,205 26 12,758 18 9,830 05 9,864 36 9,688 14 7,733 54 13,053 55 9,864 36 9,668 14 7,733 54 13,053 55 25,259 56 16,438 32 15,431 02 14,623 90 13,998 29
Cost of enlargement	. 1902 1903 1904 1905 1906 1907 1908 1909 1910	62,032 47 90,535 18 77,833 81 113,795 16 104,093 45 37,879 09 5,218 03 9,897 90 495 00 89 54	5,289,142 41	1,730 16 8,324 83 20,063 79 4,191 61 11,270 83 151,628 65 35,549 06	17,104 13 17,896 58 70,129 29 45,792 64 71,073 68 71,246 77 52,050 56 73,651 90 75,581 54 76,519 49	13,166 89 15,045 95 19,205 66 20,932 55 28,100 67 31,893 13 24,489 18 35,703 68 42,978 72 51,330 83

<sup>\*</sup>Included in total cost of St. Lawrence River and Canals, see page 11.

W. C. LITTLE,

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.--Continued. WELLAND CANAL.

			Year ending.	Capital,	Renewals Chargeable to Income.	Staff.	Repairs.
				S ets.	\$ cts.	\$ cts.	S cts.
Imperial Government	nent			222,220 00			
Governmentexpen	nditure prior to Co	onfederatio		7,416,019 83			
11	since		1868	12,097 84		37,679 05	38,852 96
11	50		$ \begin{array}{c c}  & 1869 \\  & 1870 \end{array} $	43,486 36	22,173 72	39,060 61 40,340 45	50,773 03 65,009 19
11	11		. 1871		48,569 10	40,340 45 42,383 33	53,381 02
11	11		1872	53,680 32	6,022 44	37,085 37	50,276 90
н	11		1873	82,282 20 746,420 61		45,382 99	66,550 73
11	11		1874	1,047,119 91		50,966 48 52,595 00	103,666 99 88,539 99
11	11		. 1876	1,569,478 19		57,623 31	81,376 12
ч	11		1877	2,199,962 61		59,963 47	49,783 93
11	11		1878	2,138,392 99		60,138 59	66,393 53
11	11		1879	1,552,697 41 1,252,924 75		59,942 23 63,198 10	56,755 57
11	"		1881	1,242,943 37	6,593 19	56,398 04	76,535 25 69,249 53
11	11		1882	603,402 17	13,664 80	74,641 51	84,374 97
11	п	11	1883	549,433 29	5,979 03	109,207 21	72,707 62
11	11		1884	432,336 21	C 150 01	113,276 87	90,926 97
"	11		1885	463,505 38 215,380 75		$\begin{array}{c} 112,670 \ 00 \\ 111,660 \ 22 \end{array}$	$91,534 66 \\ 69,507 48$
"	11		1886	1,071,073 87	3,828 67	109,371 69	77,440 80
11	11		1888	429,720 94	10,740 86	110,806 01	86,518 97
1	11	If .	1889	225,910 21	43,803 80	113,587 05	77,547 77
H .	11		. 1890	117,633 22	51,648 28	109,202 02	72,686 19
11	11		1891	36,371 03 29,541 21	19,767 73 9,008 80	107,662 63 104,673 73	82,548 30 73,771 87
11	"		1893	8,259 94	25,103 13	104,926 73	65,016 84
II II	11		1894	1,571 78	13,430 20	102,018 80	53,053 71
11	11		1895	3,809 35		90,438 07	48,270 94
"	11		1896	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		87,988 11 88,095 20	62,542 64
11	11		1898	2,202 00	34,803 25	84,806 54	41,247 81 59,571 66
11	11		1899		30,099 84	86,110 88	56,270 60
11	ti.	11	1900	18,167 29	37,164 84	84,888 36	59,507 64
11	ti .		1901	224,536 96		86,889 24	72,055 89
11	11		$\begin{array}{c c} \cdot & 1902 \\ 1903 \end{array}$	303,997 81 315,819 49		88,048 95 90,684 05	69,279 90 72,004 59
11	11		1904	555,751 00		91,115 35	85,717 88
rı .	н	11	1905	890,457 82	34,559 42	91,928 96	111,418 62
11	11		1906	715,198 24		107,932 96	78,704 93
11	11		1907	480,305 03 806,760 46		$\begin{array}{c} 75,031 \ 24 \\ 108,101 \ 56 \end{array}$	53,247 50 78,460 40
"			1908	255,986 16		115,934 78	88,409 53
11	11		1910	168,247 17		136,783 47	77,723 23
Total				28,506,863 19	1,358,283 83	3,601,239 21	3,029,214 65
				J	1		
	al expenditure as expenditure by		overnme			28,506,863 19 222,220 00	
Agre	eing with Public	Accounts	Balance	Sheet, 1910,	page 4 .\$	28,284,643 19	
	inal cost of const rgement, includi					7,693,821 03	
Enta						20,813,039 16	
	Total expend	liture as al	ove			28,506,863 19	

W. C. LITTLE,

Accountant.

STATEMENT showing the amounts expended on Construction, Renewals, &c. -- Continued.

# WILLIAMSBURG CANALS.

	Repairs.	÷ Ct2.	6,112		5,308	300	7,395,95	4,110	11,690	10,053 61	1,519	, x 1000	35 5,020 73	7,447	7,235	6,549	54 7,847 05	7,304	8,190	8,794	8,191	7,987	8,553	, x,	7,023	51 6,911 94	8,210	8,032
	Staff.	\$ cts.	5,745 97	5,753	6,382 1	5,542 9		6,547 6		7,388	20075	7,590 1	7,572	7.580.7	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7,632	7.671	7,635 5	7,646.7	7,485 2	2,854	8,678	9,458 3	3,676.0	10,230 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,697 51	10,708 6
Renewals	Chargeable to the Income.	sto ets.				1,077 00				:			:	:		:			1,613 67		:	:	7.07 83		10 700	8 607 64		
	Total.	S cts.	1, 520, 650 94			:									13 19	103 937 19	149,835 71	115,853 00	70,128 29	59,867 26	139,078 37	230,670 60	3,6,545 32	372, 193 29	498,500 23	449 191 19	168, 274 33	1,081,886.06
Capital.	Rapide Plat.	₩ cts.				:							:	:	:	39 473 05	71.820 79	85,990 98	53,499 34	22,206 11	12,660 95	55,036 96	158,034 15	217,669 28	214,337 42	286,886	205,480 55	116,072 55
CAI	Galops.	& cts.											:			70 764 07	78,014 92	32,862 02	16,628 95	37,661 15	126,417 42	172,779 88	218,511 17	154,524 01	110 464 59	150.744 16	262,793,78	734,492 07
	Farran's Point.	\$ cts.											•	:								2,853 76	:			4.980.00	200	231,321 44
	Year ending		1868	1870	1871	1872	1874	1875	1876	1877	1876	1880	1881	1885	1001	1004	1886	1887	1888	1889	1890	1831	1892	1893	1001	1896	1897	1898
		Government expenditure prior to Confederation being amount of	Coveriment expenditure since Confederation		Н Н			8 8		= :				н н						н н		и и и	я н			2 2		***

Accountant.

W. C. LITTLE,

OLC	SI	0	N.	ΑL	. P/	11	_	n	N	0.	20
10,000 00						16,148 66	8,501 57	18,563 82	23,454 80	29,645 76	424,262 80
9,96 64 11,092 06	12,342 32	14,403 28	15,246 91	20,570 17	23,399 45	17,289 42	13,953 58	19,441 86	22,638 02	20,682 88	440,353 00
7,410 00				1,978 85	5,573	20,493 00	18,405	16,635	3,744		111,749 54
1,392,012 16	577,772 74	601,973 92	349,105 18	302,010 57	8,209 63 308,556 26	140,920 65	46,537 43	190,312 81	11,987 59		*10,485,61169
57,869 18	501	×18	483	422	8,109 98		754 91				
987,186 44	112	645	354	536	337	140,920 65					6,118,927 32 2,158,242 00
346,956 54	111,158 39	12,209 89	10,266 92	18,700 00	8,108 99						877,090 57
 88	_	^1	~	7	10			~		_	
32	190	190	1905	190	1905	1900	1907	1908	1908	1910	
31	061	190			190	061	2061	1908	6061	1910	
	061					0061				1910	
						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				1910	Te.

\$ 1,320,655 54 ....9,164,956 15 \* Original construction .... Cost of enlargement ...

DEPARTMENT OF RAILWAY AND CANALS,

OTTAWA, July 23, 1910.

1 GEORGE V., A. 1911

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

ŞTE. ANNE'S LOCK AND CANAL.

				Le Capital.		Renewals Chargeable to Income.	Staff.	Repairs.	
					\$ ets.	S ets.	\$ ets.	\$ cts	
Fovernment exper				1000	134,456 51		FF0 10		
11	since	11		1868 1869			778 16 1,062 96	432 47 1,873 51	
11	11	11		1870			1,136 54	1,280 36	
11	11	11		1871			1,285 84	1,539 03	
,				1872	1	1,939 46	1,106 80	1,393 63	
	11	11		1873		540 11	2,199 64	1,264 40	
	11	- 11		1874	12,753 27		2,614 90.	7,208 63	
11	- 11	11		1875	32,627 71		1,859 20	4,506 68	
11	11	11		1876	24,935 85		1,952 14	4,033 75	
11	11	11		1877	30,003 08		1,982 65	1,756 93	
11	11	11		1878	14,618 85		2,057 32	541 93	
71	17	15		1879	22,113 02		2,202 03	3,259 70	
(1	11	11		1880	3,054 68		2,152 57	1,704 71	
()	11	11		1881	69,042 76		2,553 02	3,257 92	
	41	11		1882	193,158 36		2,611 30	2,343 99	
0.00	11	- 11		1883	172,959 95		2,569 86	3,448 83	
1.0	11	11		1884	142,006 25		2,775 32	2,725 49	
44	11	11		1885	93,679 57		2,618 60	4,042 0	
- 0	+1	- 11		1886	129,681 67		2,611 90	5,803 01	
	11	11		1887	45,276 08	6,054 10	2,537 41	1,499 90	
**	11	0.00		1888	18,910 55	1,372 59	2,505 61	1,380 73	
10	11	- 11		1889	24,786 33		2,569 22	1,730 79	
11	11	11		1890	6,151 14		2,571 04	1,525 51	
•		3.1		1891		8,173 69	2,505 69	1,503 50	
	11	11		1892		25,471 61	2,571 28	1,666 21	
- 4	1	59		1893		6,521 88	2,581 08	2,800 03	
*	(1	- 11		1894		3,497 56	2,640 00	2,799 63	
**	11	11		1895		3,694 33	2,508 14	3,025 91	
**	**	- 11		1896	* . * . *		2,495 54	4,993 89	
	*1	11		1897			2,357 51 1,904 10	$1,688  ext{ } 12$ $1,699  ext{ } 45$	
	(1	11	٠.	1898			1,920 12	1,095 49	
**		11		1899 1900			1,840 51	2,679 21	
		11		1901			1,895 89	3,999 02	
**	"			1902			1,994 52	3,015 97	
		"		1903		1.984 39	2,072 17	4,684 42	
		11		1904		1,001 00	2,292 94	2,244 13	
14		11		1905			2.151 01	6,091 44	
11		11		1906			2,259 16	2.29 (-80	
11		11		1907		2,449 96	1,595 62	901 47	
11	- 11	"		1908		2,501 42	2,248 29	1,693 63	
14	11	11		1909		199 67	2,292 19	4,290 57	
1+	11	11		1910		2,339 76	2,267 60	2,446 28	
Total.					*1,170,215 63	66,740 53	92,707 39	115,069 75	

\* Included in total cost of Ottawa River Works, see page 22.

 Original Construction
 \$ 134,456 51

 Enlargement, including new lock
 1,035,759 12

\$ 1,170,215 63

W. C. LITTLE.

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued. CARILLON AND GRENVILLE CANAL

				Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ ets.	\$ cts.	\$ cts.	\$ cts
Imperial Governo	ne <b>nt</b>			 	*	 		
Governmentexper			tion		63,053 64			
	since	11		1868		19,817 22	6,301 88	8,911 28
11	0	11		1869			6,549 38	10,157 43
11	11	11		1870		4,167 96	6,617 81	9,852 09
ų.	11	11		1871		23,119 37	8,676 90	8,218 2
9	11	tt		1872	165,257 28		8,324 51	17,235 3
		1.6		1873	133,199 10	3,051 38	10,068 28	8,781 50
11	11	11		1874	245,258 38		10,710 88	10,605 85
H	11	11		1875	339,864 76		10,378 57	18,520 4
11	11	Н		1876	326,203 16		10,764 38	11,475 96
17	1 11	11		1877	245,738 04		11,050 27	10,304 06
"	11	14		1878	22,676 20		11,401 30	5,082 72
	н	11		1879 1880	243,141 24		11,501 22	7,629 98
17	11	11		1881	281,514 27 336,707 53		11,959 14 13,059 18	7,625 5 $8,076 9$
	11			1882	433,084 39		14,387 49	7,582 68
11	11		• •	1883	433,575 10		17,479 58	8,310 0
	11			1884	399,267 16		17,393 91	7,918 43
"	11	- 11		1885	157,187 72		19,702 30	10,429 20
41	"		- •	1886	104,973 24	75 00	20,597 82	9,303 3
	11	"		1887	20,747 11	10 00	20,011 36	19,554 4
	"	.,	- 11	1888	38,996 29		21,531 12	10,036 69
	" "	11		1889	298 17		22,098 88	10,135 6
11		11		1890	17 58	4,526 61	15,896 16	7,582 38
- 11		- 11		1891	2, 00,	4,395 25	21,230 22	10,796 68
0	11			1892	34,585 64	15,036 48	17,458 69	8,620 13
11	11	11		1893	207 00	42,298 74	16,762 71	10,669 28
1	11	11		1894	385 55	20,034 94	14,144 98	11,620 09
11	11	11		1895		5,963 76	15,453 21	12,303 2
	11	11		1896	3,850 31		13,995 69	12,161 10
15	11	11		1897	1,908 44	4,939 20	13,780 29	11,607 9
11	11	11		1898	82,663 37	5,082 03	11,697 81	10,993 6:
H	11	11		1899	39,999 37		11,919 27	11,478 88
ti -	11	11		1900	22,802 27	4,476 50	13,657 06	14,666 7
	11	- 11		1901	4,930 65	9,331 95	13,342 22	13,416 00
0	11	- 0		1902		16,998 69	13,725 99	19,366 30
0	11	11		1903		15,992 52	14,348 17	17,766 28
- 11	11	11		1904		9,150 07	16,224 94	17,262 29
II II	11	11		1905		8,715 46	15,858 19	19,977 19
14	11	. 21		1906		24,179 33	18,232 71	10,924 75
H H	11	11		1907		9,393 38	16,749 03	7,036 40
H	11	0.0		1908		1,387 35	23,019 45	9,775 33
11	11	11		1909		68,597 35	23,085 54	10,758 01
11	11	11		1910		10,410 09	23,512 72	11,925 28
Total	1				+4,182,092 96	331,140 63	634,661 21	477,455 5

<sup>\*</sup> Expenditure not given—records relating to same were kept in Ordnance Office at Montreal and were destroyed by fire in 1852.

† Included in total cost of Ottawa River Works, see page 22. Cost of enlargement, \$4,119,039.32.

W. C. LITTLE.

Accountant.

1 GEORGE V., A. 1911

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

CULBUTE LOCK AND DAM.

				Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					8 ets.	\$ ets.	\$ cts.	\$ ets
overnment expen	diture since Co	nfederatio	n	1868				
4	11	11		1869				
	11	11		1870				
11	11			1871				
1	11	11		1872				
11	ti ti	11		1873		835 53		
11	11	11		1874		38,388 99		
11	11	11		1875	63,659 29			
li .	11	11		1876	76,842 44			
11	11			1877	56,081 87			
11	11			1878	5,933 53			
11	11	11		1879	20,694 19			
11	11	11		1880	16,688 20		202 50	259 3
	11	11		1881	4,721 62		962 85	
11	11	**		1882	29,567 15		790 00	162 3
	I f	11		1883	14,249 60		695 00	288 9
11	11	11		1884	8,151 16		733 50	
- 11	11			1885	19,071 76		730 00	572 7
11	11	11		1886	26,385 27		730 00	2,396 1
19	11	11		1887	7,760 88		730 00	967 3
4	11	11		1888	7,573 99		739 50	730 6
14	11	11		1889	17,112 01		1,050 00	116 5
14		11		1890	2,818 35		747 83	
11		11		1891	2,183 15	9,122 05	745 25	499 9
p.	11	11		1892		1,546 25	736 00	1
fy.	11			1893		1,420 65	749 00	13 5
11	11	11		1894		2,540 14	730 00	494 4
11	11	11		1895		1,475 26	436 05	434 2
	11	11		1896		_, _, _,		
· ·	11	11		1897				
11	11			1898				100 0
	11	11		1899				
				1900	3,085 00			
ii ii				1901	197 00			
		11		1902		1,135 00		
	11	11		1903				
н		17		1904		2,204 50		
11				1905		2,255 00		
11		11		1906		-,		
11	11	- 11		1907				
				1908				
11				1909				
11	11	- 11		1910				
T.	otal				*382,776 46	60,923 37	11,507 48	7,036 1

<sup>\*</sup> Included in total cost of Ottawa River Works, see page 22.

W. C. LITTLE,

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.
RIDEAU CANAL.

,			Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
				\$ ets.	\$ ets	\$ cts.	\$ ets.
Imperial Governn				3,911,701 47			
Governmentexper				153,062 60	# 000 10	10.00# 00	10.455.01
11	since		1868	166 50	7,298 12	18,397 28	16,475 21
H1	n.	11	1869 1870		19 16	19,250 71	13,140 77
- 11	11		1871		$\begin{array}{c} 13 \ 16 \\ 11,732 \ 98 \end{array}$	$20,022 \ 37$ $22,814 \ 58$	19,469 33
11	"	11	1872		4,967.50	22,314 38	18,120 52 14,005 32
**	"	"	1873		18,070 97	22,841 51	26,074 49
41	11	"	1874		5,793 16	26,815 44	22,957 40
	12	11	1875	9,310 85	0,100 10	26,553 37	19,699 81
.,	11	11	1876	2,163 96		26,430 77	14,428 25
			1877	214 11		25,959 56	14,198 18
	*1		1878			26,651 51	11,034 22
		11	1879	7,703 88		26,042 52	7,134 55
11	1 11	11	1880			26,463 88	11,434 05
	11		1881		133 50	26,024 71	8,627 00
11	11	0 1	1882		_po o o	26,915 29	13,860 28
11	11	11	1883		70 65	27 322 81	23,524 84
	11	11	1884		4,597 50	26,938 95	19,245 02
0	- 11	11	1885		2,098 76	26,971 32	18,189 55
11	11		1886		550 00	27,045 95	35,648 04
11	I†		1887		20,823 96	29,440 46	18,565 34
11	11		1888		18,889 48	33,458 83	25,478 87
11	11	.,	1889		6,665 22	33,801 77	18,106 36
11	11	11	1890		21,124 10	34,270 57	18,025 21
11	11		1891		20,967 25	34,641 98	21,537 56
11	+1	50	1892		31,363 23	35,500 82	21,507 16
t.	17	0.00	1893		24,274 71	35,022 49	18,789 50
11	11		1894		14,485 11	34,943 35	16,939 47
15	11		1895		31,559 48	33,827 08	19,897 32
8	1†	10 10 10	1896		21,452 29	34,052 77	30,196 38
H H	11		1897		19,079 11	31,461 55	29,535 94
11	41		1898		13,608 39	30,759 05	26,599 93
11	11	90	1899		700 29	30,751 20	28,199 49
11		11	1900		11,780 41	30,623 27	30,237 09
11	+1	0.00	1901			31,334 40	33,791 17
11	11	11	1902		8,894 40	32,193 66	33,959 86
	11		1903		16,235 13	34,595 31	36,424 23
H	14		1904	1 505 04	13,525 04	39,127 96	38,496 78
11	*1	11	1905	1,565 84	14,513 35	40,838 81	49,790 55
81	11		1906		5,272 90	41,819 77	54,495 63
11	16	11	1907		14,322 03	30,667 34	44,627 82
11	11	0	1908		42,903 03	44,875 16	55,090 45
11	11	11	1909		19,989 52	44,911 60	53,880 51
11	11	11	1910		9,225 73	48,324 13	95,188 97
Tot	tal			*4,085,889 21	456,980 46	1,322,845 34	1,146,628,42

<sup>\*</sup> Included in total cost of Ottawa River Works. See page 22.

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, July 23, 1910.

W. C. LITTLE,

Accountant.

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

# OTTAWA RIVER WORKS:

Ste. Anne's Lock, page 18.		1.170,215 63
Carillon and Grenville Canal, page 19		4,182,092 96
Culbute Canal, page 20. Rideau Canal, page 21.		382,776 46
Rideau Canal, page 21	4.085,889 21	, , , , , , , , , , , , , , , , , , , ,
Less expenditure by Imperial Government	3,911,701 47	
		174,187 74
Total Ottawa River Works (Capital)	§	5,909 272 79
Add expenditure on slides and booms prior to confederation	719,247 13	
u u u since u	7,243 60	
on Chats Canals prior to confederation	482,950 81	
Public Accounts	1,136 84	
Add amount transferred, see page xxxvi, Pub. Accounts Bal. Sheet. 1881.	233,555 85	
, , , , , , , , , , , , , , , , , , , ,		1,444,134 23
	\$	7,353,407 02
Less expenditure prior to Confederation, transferred to Income Account. Less expenditure in 1872, on Carillon and Grenville Canal, as shown in	320,618 28	
Publics Accounts Balance Sheet, page xx, under Miscellaneous	165,257 28	
		485,875 56
Agreeing, less outstanding cheques, with Balance Sheet, Public Accounts,	1910, page 4\$	6,867,531 46

W. C. LITTLE,

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction. Renewals, &c.—Continued. ST. OURS LOCK.

				Year ending.	Capital.	Renewals Chargeable to Income,	Staff.	Repairs.
					S ets.	\$ cts.	\$ cts.	8 ets
overnment exp	enditure prior to C	onfederat	ion		121,537 65			
	since	11		1868			1,532 75	753 7-
0	н	11		1869			1,755 15	1,399 18
11	11			1870			1,458 09	1,006 25
	II.			1871			1,414 48	1,210 98
11	В	11	• • •	$\frac{1872}{1873}$			1,565 80	1 263 19
н	tt	11		1874			$\begin{array}{c} 2,076 \ 50 \\ 2,219 \ 13 \end{array}$	$\begin{array}{c} 1,575 & 10 \\ 2,363 & 43 \end{array}$
11	11		• •	1875			1,362 22	1,245 69
11		"	٠.	1876			1,403 92	1,601 7
"	It.	11		1877			1,533 40	750 S
	U	11		1878			1,556 65	283 7
ts.	lt It			1879			1,581 55	456 0
11	В	11		1880			1,614 01	705 5
11	Н	11		1881			1,741 97	1,299 7
18	Tr .		٠.	1882		1,1,001.00	2,002 71	1,902 4
11	11			1883		17,230 32	2,361 65	2,188 0
**	11	11		1884		5,279 17	2,315 37	1,494 9
81	11	11	- • •	1885		4,700 64	2,271 57	3,652 6
11	11		• • •	1886 1887			2,311 70	4,143 4
11	11			1888			$2,175 \ 37$ $2,216 \ 04$	5,864 7 2,801 1
11	11	11		1889	1	17,964 45	2,421 14	2,002 6
**	!!	11		1890		24,571 96	2,138 40	1,935 4
**	17			1891		21,696 74	2,011 08	4,460 1
21	11	11		1892		3,585 34	2,168 44	1,944 3
78	1	**		1893		l	2,136 66	1,994 3
Ð	11	31		1894			2,216 68	924 5
*1	11	11		1895			2,161 63	915 5
ŧ1	11			1896			2,094 91	1,678 4
11	11	11		1897			2,135 60	707 0
11	51	- 11	• •	1898			2,049 67	692 0
	H	***	•	1899 1960		1,596 88	$2,244 \ 12$ $2,181 \ 43$	1,494 9 2,681 1
11	11	11	٠.	1901		3,610 06	2,128 25	1,681 4
"	11	"	- 1	1902		15,549 27	2,262 39	984 3
31	it .	11		1903		9,344 89	2,288 63	1,671 8
11	11	11		1904		7,984 41	2,334 67	1,690 6
n n	II.	11		1905		14,900 90	2,479 66	1,716 3
11	er.	11		1906		7,307 39	2,582 95	3,872 7
11	11	11		1907		4,260 00	2,064 62	1,142 7
It.	13	11		1908		3,338 79	2,891 76	2,121 4
11	II .	н		1909		1.007.60	2,294 78	3,693 1
II.	It.	и.		1910		1,925 08	4,137 64	1,752 6
	Total							

<sup>\*</sup> Included in the total cost of Chambly Canal and Richelieu River, see page 24.

W. C. LITTLE,

Accountant.

1 GEORGE V., A. 1911

Accountant.

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued. CHAMBLY CANAL.

				Year ending.	Capital.	Renewals Chargeable to Income,	Staff.	Repairs.
43	atauna unit man	C forland	et		8 cts.	\$ cts.	S ets.	\$ cts.
Governmentexper	nditure prior to since	Confederat	tion	1868	634,711 76		8,312 90	9,355 70
11	14	11		1869			8,437 22	13,120 97
11	11	11		1870		0.090.05	8,934 41	20,180 73
11		11		$1871 \\ 1872$		2,839 85 1,906 40	$\begin{array}{c} 10,214 \ 71 \\ 9,628 \ 50 \end{array}$	22,426 33 22,327 99
11	11			1873		759 00	10,390 44	11,789 27
11	11	11		1874		2,810 00	11,675 67	16,427 19
41	11	11	٠.	1875	2,415 00		12,201 99	16,306 91
*1	11	11		1876 1877	80 00		10,593 14 10,281 78	$\begin{array}{c} 13,273 \ 56 \\ 10,111 \ 32 \end{array}$
	*1			1878			10,413 99	6,022 96
	11	11		1879			11,301 53	8,809 77
11	*1	11	•	1880			11,516 22	12,377 74
11	11	11		1881 1882		31,796 41	13,950 47 $16,686$ 78	20,705 17 16,843 60
	11			1883		21,332 36	15,904 38	15,182 24
				1884		41,640 77	18,448 85	12,003 34
п	1 *	11		1885		21,049 23 14,547 27	18,378 55	13,046 95 11,999 77
1 *	11	9		1886 1887		17,911 17	19,501 28 19,053 62	20,071 37
n n		11		1888		65,536 64	20,073 60	11,823 74
n n	*7	11	٠.	1889		51,437 87	19,679 22	19,392 18
11	11	21		1890		23,221 48	19,655 38	14,399 93
11	"	"		$1891 \\ 1892$		43,344 41 38,353 99	$\begin{array}{c} 19,204 \ 76 \\ 19,665 \ 22 \end{array}$	11,399 93 12,976 48
11	11			1893		21,127 65	19,310 29	12,451 03
91	11	11		1894		8,567 78	19,040 93	11,779 12
II .	11	*1		1895		6,147 63	19,325 49	11,920 74
91		*1	• •	1896 1897		3,694 63 12,665 88	19,349 65 18,754 17	11,801 12 13,128 55
	11	"		1898		13,184 68	17,992 90	12,466 51
11	11			1899		15,255 42	18,336 50	11,997 51
11	11	11		1900		5,448 88	18,397 58	13,995 00
*1		11		1901 1902		1,195 09 19,132 80	18,529 48 18,832 25	17,572 35 17,313 02
"	11		• •	1903		8,977 43	19,286 10	21,745 65
11	- 11	11		1904		26,701 59	19,286 10 21,544 69	25,656 00
41	12	11		1905		33,066 50	26,970 79	19,896 57
11	18	11	• •	$1906 \\ 1907$		26,192 72 29,953 80	26,039 53 19,916 33	25,173 48 22,508 88
"	"	11		1908	157 90	34,264 31	28,375 21	30,627 72
41	11	11		1909	13.307 02	35,784 54	28,440 40	24,389 29
11	11	11		1910	30,479 41	8,207 00	29,198 76	22,825 53
Less proceeds of s	ale of piece of	land in 189	98		681,151 09 150 00			
7	Fotal				*681,001 09	688,055 18	741,745 76	689,623 21
Chambly Can	al and River F Chambly Canal St. Ours Lock,	Richelieu. , as above.				\$ 6	81,001 09 21,537 65	030,020 21
Accounts	ts deducted to 1868, part I, p Fovernment ex Chambly C St. Ours Lock,	page 9, penditure p anal, as al	nior ove	to Con	federation,		02.538 74	
I	Returned as an	asset in Pu	blic	Accou		756,249 41 433,807 83 3	22,441 58	
	Agreeing with				0, page 4			
DEPARTMENT O	F RAILWAYS	AND CAN	ALS	8,		W. C. 1	LITTLE,	

OTTAWA, July 23, 1910.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

MURRAY CANAL.

				Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ cts.	\$ cts.	\$ cts.	\$ cts.
•	enditure prior to Co			1000		100.00		
. 0	since	11		1868 1869		400 00		
11	" "			1870				
	11	11		1871				
11	11	11		1872				
- 11	11	1		1873				
	11	11		1874				
	11	- 11		1875				
U U	11	11		1876				
II II	11	11		1877				
11		11		1878		• • • • • • • • • • • • • • • • • • • •		
11	11	11	•	1879	• • • • • • • • • • • •			
"	11	11	• •	1880 1881				
	11			1882	7,135 63			
11	"		• •	1883	84,071 68			
"	11			1884	118,187 43			
11		11		1885	148,902 66			
- 11		11	• • •	1886	179,704 52			
1				1887	142,563 66			
i	11	11	· .	1888	146,754 37			
11	11	11		1889	215 326 46			
11	11	11		1890	106,760 35		494 31	
11	11	11		1891	61,260 49		5,137 03	173 53
11	11	11		1892	5,964 22		5,803 48	3,505 15
11	11	11		1893	30,838 79		5,499 62	5,341 34
11	11	11		1894			5,667 52	5,295 57
	11			1895			5,354 97	5,063 49
	0	11		1896			5,409 10	5,410 33
11	11	11		1897	•• •••••		5,526 87	3,966 41
11		11	• • :	1898			5,799 94	4,710 23
9		11	• •	1899			5,073 70	3,533 68
	41		• •	1900 1901			5,613 83	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	11	- 11	• • •	1902			5,175 74 5,254 51	1,138 15 6,377 19
"	"	11		1903	500 00		5,757 00	4,627 70
11	"	"		1904	750 00	2,521 13	5,291 43	6,075 94
"	17			1905	100 00	740 45	5,346 62	4,452 68
11				1906	100 00	293 75	5,183 61	2,840 91
				1907		10,423 00	2,788 14	1,710 55
	11	11		1908		37,334 70	1,244 42	2,953 23
11	11			1909	126 45	20,250 61	4,720 09	3,374 82
	11	11		1910			4,378 74	2,674 57
r	Total				*1,248,946 71	71,963 64	103,520 67	76,003 07

Agreeing with Public Accounts Balance Sheet, 1910, page 4.

W. C. LITTLE,
Accountant.

STATEMENT showing the amounts expended on Construction, Renewals. &c.—Continued TRENT CANAL.

	•			Year ending	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ ets.	\$ cts.	\$ cts.	\$ cts
overnment expend	itureprior to	Confederat	ion		309,371 31			
11	since	11		1868				
4	0.00	11		1869				
1		11		1870				
11		11		1871				
14	- 11	11		1872				
11	0	11		1873				
**				1874				
17		11		1875				
17	11	11		1876 1877				
-1	- 11	11		1878				
"	11			1879				
**				1880	561 50		1,188 92	3,568 8
"				1881			2,489 93	2,233 50
		11		1882		5,836 51	2,011 92	8,115 50
11	11	11		1883	40,767 16	9,303 66	2,235 50	3,047 43
n n	11	11		1884	120,393 91	6,198 57	2,208 64	5,264 3
94				1885	121,382 84		3,303 87	4,653 50
ь		11		1886	75,103 30		1,639 75	5,917 8
	11	11		1887	179,541 63		1,938 08	6,008 88
п	11	11		1888	114,879 35		1.770 29	5,151 4
10	11	11		1889	47,592 13	29,677 92	3,242 05	5,935 9
1	11	11		1890	58,644 50	11,522 65	3,450 99	730 5
1		11	•	1891	9,826 49	3,164 81	3,803 66	4,888 98
11	11	11		1892	4,457 28	6,506 97	3,695 85 3,739 86	4,721 St 2,087 1
11	11	11		1893 1894	5,962 47 $3,412 32$	10,838 90 20,403 93	3,785 47	4,988 5
11	11	11		1895	53,907 70	21,143 41	4,184 18	3,374 4
11	11	11		1896	392,976 08	6,185 75	4.349 34	3,329 9
"	11			1897	486,575 70	13,880 37	4,965 39	3,497 9
1		11		1898	351,273 31	8,991 54	5,034 60	4,998 8
"				1899	166,611 49	6,179 79	5,048 72	6,454 4
		- 11		1900	334,583 01	8,043 39	5,131 52	9,989 2
	91	- 11		1901	284,503 89	10,494 82	5,254 51	13,075 8
11	11	21		1902	449,075 45	26,165 93	5,575 52	14,984 88
11		11		1903	523,950 74	18,548 58	6,993 25	10,791 13
11	19	11		1904	489,038 44	21,228 55	7,237 05	21,179 13
11	11	- 11		1905	333,261 75	36,853 28	12,071 88	26,056 78
11	11	11		1906	319,789 49	26,030 36	17,440 68	33,398 83
11		11	٠.	1907	153,045 42	35,360 10	19,229 25	36,516 47
11	H	19		1903	343,176 05	96,315 87	32,826 38	33,382 9-
11	11			1909	1,099,836 38	80,517 65	32,028 57	44,849 8
11		11		1910	1,090,000 00	59,483 51	36,800 42	54,206 13
То	tal				*7,873,501 09	578,876 82	244,676 04	387,401 3

309,932 81

Agreeing with Public Accounts Balance Sheet, 1910, page 4. .... \$7,563,568 28

W. C. LITTLE,

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued. TAY CANAL.

				Year ending.	Capital.	Renewals Chargeable to Income,	Staff.	Repairs.
					S ets.	\$ cts.	\$ ets.	\$ cts
Government ext	enditure since Cor	federat	ion.	1868				
11	†I	11		1869				
11	ti	12		1870				
11	11	11		1871				
11	н	11		1872				
11	11	- 11		1873				
	II	- 11		1874				
11	II.	- 11		1875				
11	II.	11		1876	• • • • • • • • • • • • •			
11	Tr.	11	• • •	1877				
ti ti	ti .	- 11		1878				
If.	**	18	• • •	1879 1880				
H.	T†	- 11	• •	1881				
- 11	#	11		1882		748 65		
- 0		18		1883	4,831 80	140 00		
	"	11		1884	50,878 12			
11	17	11		1885	92,473 97			
11	11	11		1886	65,561 51			
	11			1887	49,617 92			
	H.			1888	54,166 57			
*1		11		1889	89,486 18			
11		11		1890	22,226 23		*	*
11	11	11		1891	17.114 78		*	*
11	11	11		1892	29,771 65		*	*
11	11	11	٠.	1893			* .	*
11	ři.	11		1894			*	*
H	11	11		1895			*	*
tt	ti	11		1896	]		*	*
lt.	It.	- 0		1897	10,720 50		*	*
11	11	- 11		1898			*	*
	11	11		1899			*	*
11	It .	11		1900_	2,750 00		*	*
	11	11	• • •	1901			* ·	*
11	Ħ	п	• •	1902				*
18	0	11	• •	1903				*
18	81	- 11	• •	1904			*	
11	ff 		• -	1905 1906	• • • • • • • • •		*	*
11	H		• •	1907	• • • • • • • • • • • • • • • • • • • •		*	*
ti	11		• •	1908			*	*
77 78	11	11		1909			*	4
11	11	"		1910			*	*
11	"	"		1010				
Tota	d				†489,599 <b>2</b> 3	748 65	*	*

W. C. LITTLE, Accountant.

<sup>\*</sup> Included in Rideau Canal since 1890. † Agreeing with Public Accounts 1910, page 4.

1 GEORGE V., A. 1911

Statement showing the amounts expended on Construction, Renewals, &c.—Continued.

SAULT STE. MARIE CANAL.

			1	Year ending.	Capital.	Renewals Chargeable to Income.	Staff.	Repairs.
					\$ ets.	\$ cts.	\$ cts	₿ et
overnment exp	enditure since	Confederatio	n.	1868				, ,
- 11	11	11		1869				
11	11	11		1870			• • • • • • • • •	
11	0	11		1871		0.00.05		
11	H	11		1872		949 35	• • • • • • • • • • • • •	
11	11	11		1873				
11	19	- 11		1874				
11	U	91		1875	• • • • • • • • • • • • • • • • • • • •			
11	11	- 11		1876				
11	- 11	- 11	• •	1877				
- 11	11	- 11		1878 1879				
11		11		1880				
11	11	- 11	11	1881				
11	"1	11		1882				
11	11	11		1883				
14	11	11		1884				
17	- 11	27		1885				
1	11	11		1886				
11	'1	"	**	1887				
1*		17		1888	8,145 06			
11		11		1889	34,018 95			
11	''	11		1890	176,568 55			
*1	"			1891	325,336 33			
"	"			1892	341,474 31			
		11		1893	589,801 25			
*1		11		1894	1,316,529 29			
				1895	466,151 50		3,432 73	
41				1896	189,986 59		16,074 70	2,650 1
**	14	11		1897	209,561 82		15,381 59	7,671 7
	11			1898	21,004 56		14,389 92	8,172 0
*1	11	11	.	1899	63,935 48		13,840 24	6,564 4
11	11	**		1900	27,157 98		13,901 40	13,219 8
11	11			1901	323,353 93	48 39	13,730 93	10,289 1
		41		1902	122,505 73		15,920 80	14,839 7
67	11	11		1903	65,933 43		16,077 22	10,855 7
*1	11	14		1904	32,029 54		14,653 35	9,491 4
61	11	11		1905	110,181 69		15,681 55	14,776 3
	11		-	1906	120,000 00		15,878 11	20,086 1
41	11	11		1907	95,504 63		12,290 94	11,520 5
11		11		1908	140,433 22		20,345,38	23,206 0
*1	11	11		1909	42,109 63	11,453 28	15,231 79	16,462 5
11	11	11		1910	46,809 13	147,147 52	18.976 64	20,300 7
'Fot	al				*4 868,532 60	159,598 54	235,807 29	190,106

<sup>\*</sup> Agreeing with Public Accounts, 1910, page 4.

W. C. LITTLE,

Accountant.

SESSIONAL PAPER No. 20

STATEMENT showing the amounts expended on Construction, Renewals, &c.—Continued.

SOULANGES CANAL.

	-				Year ending.	Capital.	Renewals Chargeable to Income,	Staff,	Repairs.
						S cts.	\$ cts.	\$ cts.	\$ et
overnme	ent expendit	ure prior to C	onfedera	tion		[	1	,	
	H	since	11		1868				
	11	11	11		1869				
	11	11	11		1870				
	11	11	11	• •	1871	* * * * * * * * * * * * * * * * * * * *			
	11	H	- 11		1872				
	11	11	- 11		1873				
	11	11	11		$\frac{1874}{1875}$				
	†1	17	11	• •	1876				
		11	11	• • •	1877				
	11	11	11		1878				
	11	11	11		1879				
	11	"	11		1880				
	11	. "			1881				
		11	"	• •	1882				
	11	11			1883				
	11				1884				
		11			1885				
			" "		1886				
	11		11		1887				
	11		11		1888				
	11	11	11		1889				
	11	ft.	11		1890				
	11	11	11		1891				
	11		11	11	1892	54,235 76			
	- 4	11	11		1893	210,336 24			
	11	10	11		1894	723,380 95			
	11		11		1895	752,016 53			
	11				1896	535,939 07			
	†1		11		1897	363,126 06			
	11 -	11	- 11		1898	1,016,401 00			
	11	10	11		1899	1,442,824 22			
	11		- 11		1900	693,806 24		6,711 84	5,000
	11	11	11		1901	462,626 36	115 00	25,154 78	5,888
	11		11	0	1902	235,021 79		22,672 50	2,267
	11	11	11	]	1903	248,929 10		31,987 06	10,362
	ft		11		1904	113,328 45	15,608 69	25,235 25	39,382
	ti .	11	11		1905	34,202 71	30,406 25	25,432 49	21,174
	11	0	11		1906	5,000 22	16,033 79	24,817 37	17,096
		††	11		1907	13,508 88	3,216 29	19,964 04	15,604
		11	†1		1908	50,634 01	4,245 18	28,988 36	35,687
	B	11	11	}	1909	17,795 79	12,363 78	32,324 20	34,802
	13	11	11		1910	153,022 23	2,299 93	32,851 69	46,287
	Tota	1				*7,126,135 61	84,288 91	276,139 58	233,552

<sup>\*</sup> Included in total cost of St. Lawrence River and Canals, see page 11.

W. C. LITTLE.

Accountant.

Statement showing amount expended on Construction and Enlargement of Canals, to March 31, 1910.

Canal.	Construction.	Enlargement.	Total.
St. Peter's Lachine Beauharnois. St. Lawrence River and Canals Lake St. Louis Lake St. Francis. Cornwall  Farran's Point Galops. Rapide Plat Williamsburg Welland. Ste. Anne's. *Carillon and Grenville. Culbute. Rideau	8 cts. 648,547 14 2,589,532 85 1,636,699 26 18,442 85  1,945,624 73  1,320,655 54 7,693,824 03 134,456 51 63,053 64 382,776 46 4,085,889 21		8 cts. 648,547 14 12,375,711 78 1,636,690 26 3,469,913 41 298,176 11 75,906 71 7,234,767 14 10,485,611 69 28,506,863 19 1,170,215 63 4,182,092 96 382,776 46 4,085,889 21
St. Ours Chambly. Murray Trent. Tay Sault Ste. Marie. Soulanges	121,537 65 637,214 66 1,248,946 71 7,873,501 09 489,599 23 4,868,532 60 7,126,135 61	43,786 43	121,537 65 681,001 09 1,248,946 71 7,873,501 09 489,509 23 4,868,532 60 7,126,135 61
Total	42,884,960 77	54,077,454 90	96,962,415 67

<sup>\*</sup> Construction by Imperial Government not included. Records relating to same were kept in Ordnance Office, Montreal, and were destroyed by fire in 1852.

W. C. LITTLE.

Accountant.

#### RECAPITULATION.

#### EXPENDITURE on Canals and Revenue received.

_		Year ending.	Capital,	Income.	Staff.	Repairs.	Revenue received.
Government e	xpenditi	ure	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ cts.
prior to Con							
eluding Imp			00 200 000 10	00.050.40			
ment expend			20,593,866 13	98,378 46			
Government e			33,784 06	95,347 79	113,084 50	101,646 44	403,879 19
since Confed	ration	1869	126,898 20	55 00		118,579 31	400,263 32
"	"	. 1870	120,000 20	90,355 96		150,176 70	414,687 02
		1871		116,429 54	135,040 81	140,467 52	488,538 76
11	11	1872	255,645 75	33,289 27	124,137 09	152,086 25	466,847 52
11	11	1873	256,547 27	127,369 55	148,581 18	186,573 13	486,433 26
11	11	1874	1,189,591 91	51,037 05	167,194 40	213,613 86	510,755 99
11	11	1875	1,714,830 37	479 00		203,226 85	414,979 59
11		1876	2,388,733 46	810 75 22 30		190,578 45	390,337 04
11	11	1877	4,131,374 30 3,843,338 62		179,661 40 187,521 31	$\begin{array}{c} 138,448 \ 51 \\ 122,251 \ 60 \end{array}$	390,857 37 373,814 17
"	"	1879	3,064,098 61		191,892 44	115,349 99.	337,675 13
	"	1880	2,123,366 31		195,039 33	147,167 52	341,598 14
4		1881	2,075,891 65	7,246 69	197,573 62	154,653 63	361,558 17
1	11	1882	1,593,174 09	55,025 03		187,399 02,	325,231 54
16	11	1883	1,763,001 97	62,503 14	269,415 01	178,617 86	361,604 01
11	11	1884	1,577,295 42	60,993 99	280,657 29	192,219 38	372,561 69
11		1885	1,504,621 47	58,297 59	280,226 20	201,708 47	321,289 47
q	1	1886	1,333,324 80	31,984 02	282,323 63	198,251 97	328,977 43
51	TC.	. 1887	1,783,698 16	65,983 06	285,172 62	198,888 84	321,784 88
	11	1888	1,033,118 34 972,918 43	= 120,561,59 $= 162,015,49$	$\begin{bmatrix} 292,458&76 \\ 301,040&23 \end{bmatrix}$	201,92893 $240,26136$	317,902 04 333,188 90
11	11	1890	1,026,364 24	146,853 54	290,516 63	176,089 00	354,816 92
		1891	1,318,092 15	165,843 87	294,562 12	204,768 45	349,431 90
q	11	1892	1,437,149 30	194,129 61	293,115 58	231,089 54	324,475 24
11	t)	1893	2,069,573 30	196,185-84	291,588 97	204,759 39	357,089 87
11	11	1894	3,027,164 19	109,216 33	294, 146-34	179,630 13	387,788 97
11	0	1895	2,452,273 65	216,057 58	281,477 04	164,033 71	339,890 49
11		1896	2,258,778 97	85,820 49	292,121 05	209,321 60	339,538 72
11	11	1897	2,348,636 91 3,207,249 79	101,205 74 82,400 55	$287,970 \ 36$ $280,872 \ 44$	178,385 47 203,478 86	384,780 53 407,652 81
"	0	1000	3,899,877 31	82,205 60	280,628 57	202,312 36	369,044 38
		1900	2,639,564 93	120,653 93	292,609 24	227,626 97	322,642 86
		1901	2,360,569 89	135,560 57	314,095 04	262,876 07	315,425 69
18	- 0	1902	2,114,689 88	213,044 91	317,838 61	263,768 27	300,413 68
11		1903	1,823,273 61	275,103 58	390,281 82	294,113 92	230,213 15
11	11	1904	1,880,787 20	298,678 23	381,016 82	350,278 54	79,536 51
11	11	1905	2,071,593 72	352,855 43	431,499 60	401,742 79	78,009 21
11	e e	1906	1,552,121 21	310,716 70	447,962 92	375,889 60	108,067 76
11		. 1907	887,839 61	254,423 18	329,629 63	287,231 03	105,003 15
11	11	1908	1,708,156 37	483,250 11	473,638 95	411,660 53	144,882 13
11	11	1909	1,868,834 45 1,650,706 64	690,304 73 459,835 62	475,515 04 515,585 16	433,958 10 491,793 02	199,501 26 193,384 28
п	17	1010	1,000,100 01		010,000 10	401,100 02	100,00% 20
Tota	al		96,962,415,67	6,221,471 41	11,695,850 15	9,488,902 94	14,156,354-14
			001.021120 01	,, 11 4 71		, , , , , , , , , , , , , , , , , , , ,	

 $<sup>^*</sup>$ This does not include expenditure which has been charged to Canals General but only the amounts expended on specified canals.

W. C. LITTLE.

Accountant.

CAVAL REVENUE STATEMENT FOR YEAR ENDING MARCH 31, 1910.

		•				1	GEC	RGE V., A.	1911
Cost of Stalf,	and Offices of collection chargeable to Revenue.	\$ cts. 208,741 59 2,601 29 2,151 48 13,906 01	227,400 37	11,708 30 1,708 30 1,708 47 2,417 89 11,742 59 1,486 97 589 70	159,673 97	59,533 99 1,289 40 1,590 95 700 35	63,114 69	42,815 88 623 35 802 55 875 85	45,117 63
	Total.	\$ cts. 4,580 40 37,321 92 12,061 46	53,963 78	16,691 50 8,863 20 5,210 00 1,153 53 95,913 74 3,092 00	130,953 97	51 00 147 00	198 00	13 00 104 00 30 00	00 21:1
DEPOSITS TO THE CREDIT OF THE LECTOR (GENERAL.	On Account Hydraulic and other Rents.	\$ cts. 4,528 80 37,010 98	41,539 78	16,691 50 7,669 50 5,240 00 85,672 56 3,067 00	118,340 56	12.1	198 00	5 00 104 00 30 00	139 06
DEPOSITE CREDIE RECEIVER	On Account Canal Revenue.	\$ cts. 51 60 310 94 12,061 46	12,424 00	1,193 70 1,153 53 10,241 18 25 00	12,613 41			## ## ## ## ## ## ## ## ## ## ## ## ##	æ
	Collication Divisions,	Weldand Canal Port Colborne Port Colborne Port Vollowise Port Colborne Elevator.	Totals	St. Lawrenec Canals Beauharnois Cornwall Cardinal Lachine Montreal Côtean Landing (Soulanges Canal), Kingston	Totals	Chambly Canal Chambly St. John's St. Ours	Totals.	Ottawa Ottawa Grenville Carillon Ste. Anne 8 Lock	Totals.
	Total.	\$ cts. 4,580 40 37,321 92 12,961 46	53,963 78	16,691 50 8,863 20 5,240 00 1,153 53 95,913 74 3,092 00	130,953 97	51 00 147 00	198 00	13 00 104 00 30 00	147 00
	Hydraulic and other Rents, &c.	4,528 80 37,010 98	41,539 78	16,691 50 7,669 50 5,240 00 85,672 56 3,967 00	118,340 56	51 00 147 00	198 00	5 00 104 00 30 00	139 00
K.,	Total Canal Revenue Accrued.	\$ cts. 51 60 310 94 12,061 46	12,124 00	1,193,70 1,153,53 10,241,18 25,00	12,613 41			8 00	90 %
CANAL REVENUE.	Elevator Receipts.	* cts.	12,061 46	1,193,77 1,153 5 10,241 25 0					
CA	Whurfage Storage, Harbour Dues, &c.	\$ cts. 51 60 31C 94	362 54	1,193 70 1,153 53 10,241 18 25 00	12,613 41				8 00

SESSIONAL PAPER No. :	20

SESSIO	NAL	PAPE	R No. 20	)							
147,368 89 1,655 97 490 78 198 45	150,014 09	3,871 33	7,542 91	91,006 55 100 00 100 00 50 00 107 88 150 00	91,514 43	40,908 81	1,089,158 23	21,887 93 5,097 26 2,990 44	1,119,133 86		
3,592 85 466 00 74 70	4,133 55	32 00	1 00	4,676 54	4,676 54	280 00	194,685 84		194,685 84 1,301 56	193,384 28	LITTLE, Accountant
3,071 05 391 00 54 70	3,516 75	32 00	1.00	1,596 54	4,596 54	530 00	168,893 63		168,893 63	193,384	W. C. L.
521 80 75 00 20 00	616 80			90 08	00 08	20 00	25,792 21		25,792 21		
Rideau Canal Ottawa. Kingston Mills Smith's Falls.	Totals	St. Peter's Canal St. Peter's	Murran Canal. Brighton.	Trent Canal. Bobcaygeon. Fenelon Falls. Hastings. Peterborough Young's Point.	Totals	580 00 Sault Ste. Marie Canal	Totals.	Dredge Vessels.  Inspection Department of Public Printing and Stationery. General.	Grand Total. LESS—Refunds.	Net Revenue	
3,592 85 466 00 74 70	4,133 55	32 00	1 00	1,676 54	4,676 54	580 00	194,685 84		194,685 84		
3,071 05 391 00 54 70	3,516 75	32 00	1 00	4,596 54	4,596 54	530 00	168,893 63		168,893 63		
521 80 75 00 20 00	616 89			90 008	80 00	20 00	25,792 21		25,792 21		
							12.061 46		12,061 46		P
08 98 98 92 129 80 129 80	ල 616 80			00 08	00 08	50 00	13,720 75		13,730 75		

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, July 23, 1910.

Totuls.	\$ cts. 104,856 65 11,316 17 15,509 87 23,659 34 124,545 16 1,075 84 8,455 70 8,456 70 27,107 83 77 00 3,007 00	524,922 00
Balance due March 31,1910.	<u> </u>	148,206 82
Paid into hands of the Collectors.	\$ cts. 41,539 78 5,240 00 7,6639 10 116,631 50 83,672 56 83,672 56 83,576 54 4,586 54 4,586 54 83,677 00 83,677 00	168,893 63
Deposited to the credit of the Receiver General.	\$ cts. 41,539,78 5,240,00 7,669,50 116,691,50 85,672,56 85,672,56 8,567,00 8,516,75 4,530,00 109,00 63,007,00	168,893 63
Abatement.	\$ cts. 101 64 2,000 00 5,275 96 373 50	7,761 60
1909-1910.	Welland William Comwall Beanhar Lachine Chambly Rideau ( Trent Ca Trent Ca Sault Ste	Totals
Totals.	\$ cts. 10,356 65 11,316 17 15,394 72 13,455 16 1,4755 16 1,4755 70 5,076 49 5,076 49 5,076 49 7,107 83 7,7 00 3,667 00	324,922 05
Accrued during the year ended March 31,1910.	\$ cts. 47,188 88 3,438 00 7,654 50 15,001 00 91,659 78 186 00 4,201 50 5,75 00 615 00 615 00 8,067 00	176,126 70
Balances due April 1, 1909.	\$ cts. 57,167,77 7,878,17 7,878,17 7,940,37 8,658,34 8,485,38 8,485,38 8,485,38 8,485,38 8,485,38 8,485,38 8,485,38 8,485,38 8,485,38 8,495,99 9,004,45 9,004,45	148,795 35

W. C. LITTLE,
Accountant.

Department of Railways and Canals, Ottawa, July 23, 1910.

#### INTERCOLONIAL RAILWAY.

(Including amounts paid to Nova Scotia Railway and European and North American Railway, N.B.)

	_	_		Year ending	Construction.	Income.	Working Expenses in- cluding Windsor Branch Ry.	Revenue received, in cluding Windsor Branch Ry
					\$ ets.	\$ cts.	\$ cts.	\$ et
Expenditure	prior to	Confederatio	n		10,766,725 54			
11	since	11		1868			359,961 08	420,752
11	12	11		1869			387,548 47	455,022
11	11	11		1870	1,729,381 49		445,208 75	471,245
11		11		1871	2,916,782 13		442,993 31	565,713
11	- 0	11		1872	5,131,141 51		595,076 22	622,900
11	11	11		1873	5,201,450 37		1,011,892 60	703,458
	- 11			$\frac{1874}{1875}$	3,614,898 81 3,426,099 55		1,847,175 24	893,430
	11		• • • • •	1876	1,108,321 59		1,532,589 62 1,277,197 79	861,593
11	11	11	• • • •	1877	1,318,352 19		1,661,673 55	848,861 1,154,445
11	11	29		1878	408,816 74		1,811,273 56	1,378,946
11	11	11		1879	226,639 19		2,010,183 22	1,294,099
11	11	11		1880	2,048,014 60		1,607,956 70	1,520,310
	11			1881	608,732 80		1,780,353 53	1,777,856
11	11	11		1882	585,568 79		2,080,592 37	2,100,315
11	11	31		1883	1,616,632 96		2,383,477 20	2,395,034
Ħ	11	11		1884	1,405,377 52		2,366,719 95	2,376,666
11	11	11		1885	1,195,363 08		2,460,229 87	2,392,605
14	11			1886	544,958 17		2,508,473 10	2,406,858
11	11			1887	823,070 86		2,854,158 91	2,621,337
11				1888	742,203 09 655,228 13		3,300,481 94	2,937,337
11	11	11		1889			3,174,785 19	2,923,736
"	11	11		1890 1891	365,246 $48$ $79,929$ $34$		3,500,455 80 $3,691,273$ 65	2,958,243 $3,007,630$
	11			1892	168,101 77		3,458,891 39	2,978,950
	11	11		1893	228,984 79		3,062,207 45	3,099,815
	11	ii ii		1894	166,362 43		2,999,317 07	3,020,485
0				1895	327,034 51		2,964,940 98	2,979,795
0		11		1896	259,105 23		3,029,304 08	2,994,201
	11	11		1897	145,142 00		2,936,789 71	2,906,631
11	11	11		1898	252,367 20	70,000 00	3,275,830 14	3,154,896
	11	11		1899	1,081,929 94	210,000 00	3,478,559 30	3,775,558
11	11	11		1900	1,796,348 29		4,444,296 25	4,599,423
31	11	11		1901	3,633,836 57		5,477,285 30	5,019,497
11	H	11		1902	4,621,841 05		5,596,939 57	5,720,990
31	11		• • • • •	1903	2,254,266 68		6,214,496 38	6,366,884
11	н			1904 1905	†1,880,856 60 3,937,621 93		7,264,263 13 8,535,689 91	6,392,865
**				1906	‡3,765,170 90		7,599,400 33	6,833,561 $7,693,282$
11	19	11	• • • •	1907	1,506,209 26		6,045,597 15	6,293,751
11	11	31 31		1908	4,363,494 01		9,195,347 64	9,229,989
"	11	31 31		1909	3,867,232 16		9,364,256 10	8,583,100
	11	11		1910	1,278,409 45		8,668,620 23	9,328,888

* Including \$296,872.90 charged to 'Consolidated Fund.'  † Expenditure for year	\$1,894,856 90 14,000 30
	\$1,880,856 60
‡ Expenditure for year	\$ 3,760,942 95
Add refunded cheque of 1901-2 paid during fiscal year 1905-6	4,227 95
	\$ 3,765,170 90

#### INTERCOLONIAL RAILWAY-Concluded.

Total cost of Construction as shown on page 35 Less amounts transferred from Capital to Consoli	dated Fund as	follows :—	. \$82,819,218 53
1868	va Scotia Ry. 16,800 99 34,403 45 50,405 69 106,899 59	European and American I \$ 11,302 88 1,749 2	Ry, ) 1
* *	208,509 72	\$ 88,363 1 208,509 7	
Cape Breton Railway, page 40 Oxford and New Glasgow Railway, page 39 Eastern Extension Railway, page 37 Montreal and European Short Line Railway, page 41 Drummond County Railway, page 45 Canada Eastern Railway, page 48		1,949,063 2 1,324,042 8 333,942 7 1,464,000 0	1 1 2 0
Total capital cost of Intercolonial Railway sy	stem		892,273,073 51

\* Agreeing, less outstanding cheques, with Public Accounts, 1908-1909, page 4. † Includes \$220.48 amount of an Exchequer Court award in 1907 against the Oxford and New Glasgow Railway.

W. C. LITTLE,

Accountant.

#### EASTERN EXTENSION RAILWAY.

Since					Year.	Capital.	Working Expenses.	Revenue Received.
Since   1868						\$ cts.	\$ cts.	\$ cts
Since   1869   1869   1870   1870   1871   1872   1873   1874   1874   1875   1875   1875   1875   1876   1877   1876   1877   1877   1878   1879   1889   1881   1881   1881   1881   1881   1882   1881   1883   1883   1883   1883   1883   1883   1883   1885	overnment ex en	diture prior to Co	nfederation			 		
1870		since			1868			
1871	19	11	11					
1872   1873   1874   1875   1876   1876   1877   1877   1878   1878   1879   1879   1881   1882   1883   1884   1284,311 97   10,033 77   30,767   1885   1886   1887   94,756 06   66,897   1886   1887   94,254 04   64,107   1889   34,235 73   90,719 04   72,436   1890   79,102 77   84,655   1890   79,102 77   84,655   1890   79,102 77   84,655   1890   79,102 77   84,655   1890   79,102 77   84,655   1890   79,102 77   84,657   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102 77   1890   79,102	1t	11	11		1870			
1873	11	+1	11		1871			
1874   1875   1876   1877   1878   1878   1879   1880   1881   1882   1883   1885   2,055 92   78,273 65   73,056   1887   1888   1888   34,235 73   90,719 04   72,436   79,102 77   84,658   1893   1893   1893   1893   1893   1893   1894   1895   1896   1896   1897   1898   1899   1899   1899   1900   1899   1900   1899   1900	н	19						
1875   1876   1877   1878   1878   1879   1880   1881   1883   1884   1,284,311 97   10,033 77   30,767   30,	ш	11						
1876   1877   1878   1879   1880   1881   1881   1882   1883   1884   1.284,311 97   10,033 77   30,765   1885   1885   2,055 92   78,273 65   73,056   1885   1887   94,756 06   66,833   1886   183 79   94,756 06   66,833   1887   94,254 04   64,100   1887   94,254 04   64,100   1888   34,235 73   90,719 04   72,436   1889   34,235 73   90,719 04   72,436   1890   79,102 77   84,658   1890		••			1874		- • • • • • • • • • • • • • •	
1877							,	
1878   1879   1880   1881   1881   1882   1882   1883   1884   1884   1885   1885   1885   1885   1885   1885   1885   1885   1885   1885   1885   1887   1886   1887   1886   1887   1887   1888				• •				
1879								• • • • • • • • • • •
1880				• • • •			• • • • • • • • • • • • • • • • • • • •	
1881				• • • • •	1880			
1882					1881			
1883								
1884   1,284,311 7								
1885	**	11				1.284.311 97	10,033 77	30,767 6
1886	11	11					78,273 65	73,050 0
1887	11:				1886	183 79	94,756 06	66,893 1
1889   34,235 73   90,719 04   72,436     1	11	11	11		1887		94,254 04	64,107 1
1890	11	11	11		1888		90,954 73	70,552 2
1890	tt.	ti ti	11			34,235 73	90,719 04	72,436 6
1892   *	11	11	11				79,102 77	84,658 9
1893	H	11	11		1891	3,255 40	*	†
1894					1892		1	†
1895							, , , , , , , , , , , , , , , , , , ,	†
1896				1			, , , , , , , , , , , , , , , , , , ,	†
1897						'	*	I
1898   *							*	I
1899							*	
1900							*	1
1901							*	<u> </u>
1902							*	<b>.</b>
" " " 1903							*	+
1904   *							*	+
1 1905	tt	11	11		1904		*	+
1906 * 1907 * 1908 * 1908 * 1908 * 1909 .	0	U U	11		1905		*	†
" " [ * 908   * † † 1909   * † † † † † † † † † † † † † † † †	P	81		1			*	+
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ħ	18	11				*	†
1010	li .	17	11				*	†
1910		11	11				*	ļ ţ
	H	11	n		1910		*	†

<sup>\*</sup>Included in Intercolonial Railway expenses. †Included in Intercolonial Railway revenue. ‡Included in total cost of Intercolonial Railway system, page 36.

W. C. LITTLE,
Accountant.

#### CARLETON BRANCH RAILWAY.

				Year.	Capital.	Working Expenses.	Revenue Received.
					\$ cts.	\$ cts.	\$ cts
overnment expend	liture prior to Con	federati	on				
' H	· since	11		1868			
п	D	18		1869			
11	n	11		1870			
1		11		1871			
11	H.	11		1872	• • • • • • • • • • • • • • • • • • • •		
11	99	11		1873			
	11	11		1874			
11	*1	11		1875 1876			
11	H	11		1877	******		
11	tt 11	11		1878			
11		11		1879		*******	
11	11	11		1880	••••		
11	11	11		1881			
"	11	- 11		1882			
tt.	11			1883			
11	11	11		1884			
11	11	11		1885	1		
11	H	- 11		1886	85,610 69		
11	11	11		1887	2,299 62		
H.	11	- 11		1888	500 17		
11	18	11		1889			
11	11	11		1890			
11	11	- 11		1891			
11	II.	11		1892			
0	11	- 11		1893			
D .		11		1894			
0	11	11		1895			
11		11		1896			
11	11	89		1897			
11	- 11	- 11		1898			
11	11	- 11		1899			
11	11	11		1900			
	II II	11		1901			
I7	II .	- 11	)	1902		' · · · · · · · · · · · · · · · · · · ·	
ti	11	11	• • • • • • • • • • • • • • • • • • • •	1903 1904			• • • • • • • • •
11				1905			
11	11	11		1906	**** ********		
11	17	11		1907			
11	U U	11		1908			
11	"	11	****	1909			
11	" "	11		1910			
- 11	"	11		1010			

\*Victoria, chap. 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.

W. C. LITTLE,

Accountant.

#### OXFORD AND NEW GLASGOW RAILWAY.

	_			Year.	Capital.	Working Expenses.
					\$ ets.	\$ cts.
overnment expendi	ture prior to Confe	ederation.				
11	since	11		1868		
11	11	11		1869		
11	11	- 11		1870		
11	11			1871		
11	11			1872		
	- 11	11		1873		
11	11		*******	1874		
11		11		1875		
ti	11	11		1876		
11				1877 1878		
		11		1879		
11	11	11		1880		********
ii.	**	"		1881		
11	11	"		1882		
" "		11		1883		
11		11		1884		
11		11		1885		
I†	41			1886		
п	ti.	11		1887		
11	ti ti	11		1888	280,932 35	
п	tt.	- 11		1889	840,553 57	
11	tt.	Er.		1890	434,074 60	
П	11	11	**** **** ****	1891	220,886 39	
1t	11	11		1892	48,745 23	
It.	11	11		1893	7,922 80	
II II	H H	10		1894	112,382 75	
11	11	11		1895	*	
11			*******	1896 1897	9 505 50	
17	11	11		1898	3,565 52	
11	11	"		1899		
it .	11		***************************************	1900		
H.	В.			1901		
11	ti.	If		1902		
11	11			1903		
tt.	It.			1904		1441 141111
ff.	11	#1		1905		
tt	It	11		1906		
11	11	†I		1907	*	
0	TI .	- It		1908		
11	lt .	11		1909		
11	II .	11		1910		
To	otal				‡ 1,949,063 21	†

\* Included in Intercolonial Railway capital. † Included in Intercolonial Railway working expenses. ‡ Included in total cost of Intercolonial Railway system, page 36. Add \$220.48 amount of Exchequer Court award paid in 1907 and included in Intercolonial Ry.

W. C. LITTLE,

Accountant.

#### CAPE BRETON RAILWAY.

					Year.	Capit	tal.	Worl Expe	king nses.
						\$	cts.	\$	cts.
overneme	ent expendi	tnre prior to C	onfederation	n					
	11	since	11		1868				
	11	11	18		1869				
	11	н	11		1870				
	11	11	* 11		1871				
	11	11	11		1872				
	11				1873		• • • • • •		
	11	H	H		1874		• • • • • •		• • •
	11	"	19		1875				
	11	11	- 11		1876		• • • • •		
	11	†#	11		1877		• • • • • •		
	11	11	11		1878				
		ы	11	• • • • • • • • • • • • • • • • • • • •	1879 1880				
	#1	"	11		1881		• • • • • •		
	1	"	11		1882		• • • • •		
					1883		• • • • •		
	11	"	11		1884				
	11	"	11		1885				
	11		11		1886				
	11		11		1887	76.5	01 89		
	11		11		1888	689,4	50 50		
	11	11	11		1889	1,083,2	76 60		
	11	11	11		1890	1,170,5	23 62		
	11	11	11		1891	521,4	41 - 62		
	11	11	**		1892	99,9	36 96		
	11	11	11		1893	59,9	82 74		
	11	11	11		1894	158,7	70 61		
	- 11	11	11		1895	*			
	11	11	11		1896	*			
	11	1			1897		$05 \ 00$		
	11		11		1898	3	89 60		
	11	11	11		1899				
	11	11	11		1900				
	11	11	11		1901		• • • • •		
	11	11	11	• • • • • • • • • • • • • • • • • • • •	1902		• • • • •		
	11	- 11	11		1903		• • • •		
	*1	11	- 11		1904				
	11		- 11		1905				
	11	11	- 11		1906				
	11	11	11		1907 1908				
	11	- 11	11		1908				
	11	11	11	************	1910				
	11		11		1010				

 $<sup>^*</sup>$ Included in Intercolonial Railway capital.  $\dagger$ Included in Intercolonial Railway working expenses.  $\S$  Included in total cost of Intercolonial Railway system, see page 36.

W. C. LITTLE,

Accountant.

#### MONTREAL AND EUROPEAN SHORT LINE RAILWAY.

	_	<del></del>		Year.	Construction	Working Expenses.
					\$ cts.	\$ cts
vernment expen	diture prior to	Confedera	tion			
11	since			1868		
17	11	11		1869		
11	н	11		1870		
11	11	H	• • • • • • • • • • • • • • • • • • • •	1871		
11	11	11	• • • • • • • • • • • • • • • • • • • •	1872		
81	11	11	• • • • • • • • • • • • • • • • • • • •	1873		
17	11	11	• • • • • • • • • • • • • • • • • • • •	1874		
11	11	11	• • • • • • • • • • • • • • • • • • • •	1875		
81	- 11	11	• • • • • • • • • • • • • • • • • • • •	1876		
11	U U	11	• • • • • • • • • • • • • • • • • • • •	1877		
П	u u	11	• • • • • • • • • • • • • • • • • • • •	1878		
11	11			1879		
10	11	11	•••••	1880		
11	11	- 11		1881		
11	11	- 11		1882		
11	11	11	• • • • • • • • • • • • • • • • • • • •	1883		
н		11	• • • • • • • • • • • • • • • • • • • •	1884		
11	11	11		1885	49,587 45	
11	11	11	• • • • • • • • • • • • • • • • • • • •	1886	135,214 38	
**	H	11		1887	24,157 32 397 35	
1	94	11	• • • • • • • • • • • • • • • • • • • •	1888	397 35	
11	11		• • • • • • • • • • • • • • • • • • • •	1889		
11	11	11	• • • • • • • • • • • • • • • • • • • •	1890		
0	11	11		1891	124,568 23	
11				1892		
11	11			1893		
-11	11	11		1894	17 99	
0	11	11	• • • • • • • • • • • • • • • • • • • •	1895		
11	H	11		1896		
- 11	11			1897		
11	11	11	• • • • • • • • • • • • • • • • • • • •	1898		· · · · · · · · · · · · · · · · · · ·
11	Н	- 11	• • • • • • • • • • • • • • • • • • • •	1899		
10	H	- 11		1900		
18	ч			1901		
11	11	11		1902		
Н	ч	11		1903		
H	- 11		• • • • • • • • • • • • • • • • • • • •	1904		
н	11	11	• • • • • • • • • • • • • • • • • • • •	1905		
11	TI TI	11		1906		
11	11	11		1907		
11	0	11		1908		
11	11	11		1909		
11	11	11		1910		

<sup>\*</sup>Included in total cost of Intercolonial Railway system, page 36.

W. C. LITTLE,

Accountant.

1 GEORGE V., A. 1911 PRINCE EDWARD ISLAND RAILWAY.

				<u>;</u>	Construction.	Working	Revenue
				Year.	Construction.	Expenses.	received.
				$\rightarrow$			
					\$ cts.	\$ ets.	\$ cts.
						0 000	
Government expen	diture prior to	Confederat	ion		3,114,735 11		
11	since	11		1874		750 00	
11	11	11		1875	46,086 63	49,344 62	24,493 99
11	11	11		1876	42,546 10	219,930 43	118,060 96
ti	11	11	* * *, * *	1877	200,000 00	228,595 25	130,664 92
- 11	11	11		1878	6,551 86	221,599 49	135,899 60
TT.	11	91		1879	40,129 05	223,313 12	125,855 91
11	ri .	17		1880	16,539 82	164,640 55	113,851 11
81	**	п		1881		203,122 88	131,131 43
11	tt	н		1882	402 03	228,259 97	137,267 54
ti	11	11		1883	57,186 02	252,808 41	146,170 42
ti	£1	9 11		1884	130,663 38	236,428 13	144,504 12
tt	H	11		1885	76,956 56	211,207 01	158,588 06
£1	11	12		1886	4,668 33	216,744 34	155,584 36
11	11	11		1887	5,800 00	204,237 45	155,303 37
11	£1	11		1888		229,639 95	158,363 62
11	11	н		1889 1890		247,559 44	171,369 56 160,971 78
11	11	11		1891		266,485 85 257,990 08	174,258 05
11		11		1892	8.300 49	289,796 38	157,442 69
11	11	11		1893	0,000 40	226,422 17	162,690 42
*1		1,		1894		226,891 06	158,533 83
.,				1895		232,905 19	149,654 78
ii.	19	11		1896		225,138 56	146,476 54
	12	11		1897		240,489 90	153,443 13
11	ri			1898	17,541 88	231,418 74	158,950 61
11	11			1899	22,000 00	218,053 01	165,012 03
11	11	11		1900	53,546 02	220,931 81	174,738 73
11	11	11		1901	280,173 93	261,766 24	193,883 48
tt	11	11		1902	475,997 94	270,159 97	197,999 93
11	11	11		1903	S29,414 18	259,637-82	217,714 24
11	Tr.	11		1904	698,877 47	335,695 44	234,390 03
tt	ri .	11		1905	591,412 65	370,464 44	217,330 61
13	11	11		1906	496,124 89	294,253 16	257,270 57
tt	*	28		1907	91,710 52	283,148 50	215,434 97
11	11	н		1908	390,461 S3	399,947 79	304,579 83
t	11	**		1909	561,206 90	400,330 41	311,319 63
11	н	11		1910	206,396 97	427,283 73	319,074 74
	Total				*8,465,430 56	9,077,301 29	6,238,279 59
					, , , , , , , , , , , , , , , , , , , ,	, ,	,

<sup>\*</sup>Agrees with Public Accounts Balance Sheet, 1909-1910, page 4.

W. C. LITTLE,

Accountant.

#### CANADIAN PACIFIC RAILWAY.

				Year.	Construction, including subsidy of \$25,000,000.	Working Expenses.	Revenue received.
					\$ ets.	\$ cts.	\$ c
overnment exp	enditure prior to C	onfederati	on				
11	since	11		1868			
11	11	11		1869			
11	11	11		1870			
11	11			1871	30,148 32		
11	If .			1872	489,428 16		
11	17	- 11		1873	561,818 44		
11	11	**		1874	310,224 88		
11	0	11		1875	1,546,241 67		
11	It.	11		1876	3,346,567 06		
11	It.	11		1877	1,691,149 97		
tt	11	11	1	1878	2,228,373 13		
It.	11	11		1879	2,240,285 47		
	11	11		1880	4,044,522 72	78,892 01	104,975
11	11	11		1881	4,968,503 93	236,944 98	291,498
11	tt .	11		1882	(1) 4,589,075 79	1,786 20	
11	n n	11		1883	(2) 10, 033, 800 04	266 09	
11	#	Tt.		1884	(3) 11, 192, 722 02	327 02	
11	11	11		1885	(4) 9,900,281 53		
0	11	11		1886	(5) 3,672,584 81		
11	11			1887	(6) 915,057 49		
11	- 0	U.		1888	52,098 65		
	10	I t		1889	86,716 07		
11	H			1890	40,980 54		
11	11	11		1891	37,367 00		
	11	11		1892	66,211 39		
11	II.			1893	413,836 49		
11	ti .			1894	146,539 87		
11	†I	11		1895	49,209 77		
	II.	11		1896	65,669 49		
11	11	11		1897	14,054 50		
11	II.	It .	• • •	1898	692 17		
- 11	II .	11	• • •	1899	8,418 53		
- 11	I†	11	• • •	1900	236 11		
- 11	11	11		1901	8,978 87		
11	1	11	• • •	1902	448 70		
11	11	11		1903	99 076 90		
11	H	- 11	• • • • • •	$\frac{1904}{1905}$	33,076 39		
"		11	• • • •	1905	* * * * * * * * * * * * * * * * * * * *		1
"	11	11		$\frac{1906}{1907}$			
11	0	11		1907	600 00		
"	11	11	• • • •	1909	937 77		
" "	11	"		1910	501 11		
"	"	"		1910	*****		
	Total				*62,786,857 74	318,216 30	396,473

\* Agrees with Public Accounts Balance Sheet, 1909–1910, page 8.

(1) Including. \$ 2,210,000 00 on account subsidy.

(2) " 5,323,076 60 "

(3) " 7,254,208 27 "

(4) " 6,862,201 00 "

(5) " 2,890,427 00 "

(6) " 460,087 13 "

†\$25,000,000 00

† See also statement page 54, for the expenditure.

W. C. LITTLE, Accountant.

#### ANNAPOLIS AND DIGBY RAILWAY.

					Year.	Capital.	Income Expenses.
Since   1868   1869   1870   1870   1871   1871   1871   1872   1873   1873   1875   1875   1875   1876   1876   1877   1877   1877   1877   1877   1877   1877   1877   1877   1877   1878						\$ ets.	\$ ct
1869   1870   1871   1872   1872   1873   1874   1874   1875   1875   1876   1877   1876   1877   1877   1878   1878   1878   1878   1878   1880   1881   1880   1881   1882   1883   1883   1884   1885   1886   1886   1886   1886   1886   1886   1886   1887   1887   1888				tion	1969		
1870   1871   1872   1873   1873   1875   1875   1876   1876   1877   1878   1878   1879   1880   1881   1882   1881   1882   1881   1882   1883   1884   1885   1886   1887   1886   1887   1888   1887   1888   1889   1889   1890				• • • • • • • • • • • • • • • • • • • •	1869		
1871   1872   1873   1874   1875   1876   1876   1877   1878   1878   1878   1879   1880   1881   1882   1882   1883   1884   1885   1886   1886   1887   1889   1889   1890							· · · · · · · · · · · · · · · · · · ·
1872   1873   1874   1875   1876   1876   1876   1877   1877   1877   1878   1879   1880   1881   1881   1882   1881   1882   1883   1884   1885   1886   1886   1886   1886   1887   1888							
1873							
1874   1875   1876   1876   1877   1878   1878   1878   1879   1880   1881   1882   1883   1884   1885   1886   1888   1889   1889   1889   1889   1890					1873		
1875   1876   1877   1878   1877   1878   1879   1880   1880   1882   1883   1884   1885   1885   1886   1885   1886   1885   1886   1885   1886   1885   1886   1887   1889   9,847 27   1880   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   1890   381,942 75   381							
1876   1877   1878   1878   1879   1880   1881   1882   1883   1884   1885   1886   1886   1886   1887   1886   1887   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1889   1890   1891   1962   1891   1896   1897   41,457   29   1898   1900   1890							
1877   1878   1879   1880   1880   1881   1881   1882   1883   1884   1885   1886   1886   1886   1887   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1889   1889   1890   1891   1965   1890							
1878   1879   1880   1881   1882   1883   1884   1885   1886   1887   1886   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1889   1890							
1879   1880   1881   1881   1882   1883   1883   1884   1885   1885   1885   1886   1886   1886   1886   1886   1887   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1888   1889   1889   1891   196,869   36   1891   196,869   36   1891   196,869   36   1891	11						
1880   1881   1882   1883   1884   1885   1886   1886   1886   1886   1886   1886   1888   1888   1888   1888   1888   1888   1888   1889   9,847 27   1889   381,942 75   1891   1966   1892   26,129 89   1893   2,190 62   1893   2,190 62   1893   2,190 62   1893   2,190 62   1894   1,675 36   1896   1896   1896   1897   41,457 29   1898   1899   1899   1899   1899   1899   1899   1899   1900   1890   1890   1890   1890   1890   1890   1890   1900   19	11	н	1;				
1882   1883   1884   1885   1886   1886   1886   1886   1887   1888   1889   1899	18	11	+1		1880		
1883   1884   1885   1886   1886   1886   1887   1888   1888   1888   1888   1888   1888   1888   1888   1889   1899   1890	11	t1	- 11		1881		
1884   1885   1886   1887   1888   1888   1888   1888   1889   1890	11	н					
1885   1886   1887   1888   1888   1888   1888   1888   1888   1889   1889   1891   196,869   36   36   36   36   36   36   36	н	* H					
1886   1887   1888   1889   9,847 27   1889   381,942 75   1891   1966   1891   1904   1904   1904   1906   1906   1906   1906   1906   1906   1906   1908   1909	11	11	11		1884		
1887   1888   1889   9,847 27   1890   381,942 75   1891   196,869 36   1892   26,129 89   1893   2,190 62   1894   1,675 36   1895   570 55   1896   1896   1896   1898   1898   1898   1898   1899	10	18	н				
1888   9,847 27   1890   381,942 75   1890   381,942 75   1891   196,869 36   1892   26,129 89   1893   2,190 62   1894   1,675 36   1895   570 55   1896   1896   1897   41,457 29   1898   1898   1898   1898   1898   1898   1898   1898   1898   1898   1898   1898   1890	H	11	18		1886		
1889   9,847 27   1890   381,942 75   1890   381,942 75   1891   196,869 36   1892   26,129 89   1893   2,190 62   1894   1,675 36   1894   1,675 36   1895   570 55   1896   1896   1898   1898   1898   1898   1898   1898   1898   1899   1899   1899   1899   1890   1	11	11	11				
1890   381,042 75   1891   196,869 36   1891   196,869 36   1892   26,129 89   1893   2,190 62   1894   1,675 36   1894   1,675 36   1896   1896   1896   1898   1898   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1890	18		11				
1891 196,869 36 1 1892 26,129 89 1 1893 2,190 62 1 1894 1,675 36 1 1895 570 55 1 1896 1 1897 41,457 29 1 1898 1 1899 1 1900 1 19	11	11	11			9,847 27	
1892   26,129   89   1893   2,190   62   1894   1,675   36   1894   1,675   36   1895   570   55   1896   1896   1897   41,457   29   1898   1898   1899   1899   1899   1899   1899   1900	11	H	11			381,942 75	
1893   2,190 62   1894   1,675 36   1895   570 55   1896   1897   41,457 29   1898   1900   1900   1904   1904   1905   1906   1906   1906   1906   1906   1907   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1909	d	ri e	11	• • • • • • • • • • • • • • • • • • • •		196,869 36	
1894	0	H H	11	• • • • • • • • • • • • • • • • • • • •		26,129 89	
1895   570 55   1896   1897   41,457 29   1898   1906   1906   1906   1906   1906   1906   1906   1906   1906   1906   1907   1907   1907   1908   1909	18	11	11			2,190 62	
1896   1897   41,457 29   1898   1899   1900   1900   1904   1904   1905   1906   1906   1906   1907   1907   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1909   19						1,675 36	
1897   41,457 29   1898   1898   1898   1900   1900   1901   1902   1904   1905   1905   1905   1905   1906   1907   1907   1908   1908   1909   19				• • • • • • • • • • • • • • • • • • • •		570 55	
1898   1899   1900	11	***	11			41 455 00	
1899						41,457 29	
1900   1900   8,381   1901   8,381   1902   1902   1903   1904   1904   1905   1906   1906   1907   1908   1908   1908   1909					1800		
1901 8,381 1902 1903 1 1903 1904 1 1905 1906 1 1907 1908							
1902 1903 1904 1905 1906 1907 1907 1908						!	0 201 6
1903   1904   1904   1905   1905   1906   1906   1907   1908   1908   1909							0,001 0
1904   1904   1905   1906   1907   1908   1908   1909							
1905 1906 1907 1907 1909							
1906 1 1907 1 1908 1 1908					1905		
1907 1908 1909							
1908							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1	
4010							
	11	11	11		1910		

 $<sup>^{\</sup>circ}$  Of this amount Parliament voted under 52 Vic., chap. 8, the sum of  $\$500,\!000$  as a subsidy to the Western Counties Railway.

W. C. LITTLE.

. Accountant.

#### DRUMMOND COUNTY RAILWAY.

					Year.	Construction.	Working Expenses
		-				\$ cts.	\$ c
overnment	expenditure	prior to	Confedera	tion			
11		since	11		1868		
11		11	11		1869		
- 11		11	11		1870		
		11	11		1871		
11		11	11		1872		
11		11	11		1873		1
			11		1874		
		<sub>2</sub> 11	11		1875		
11		0	11		1876		
11		tf	11		1877		
		tt	11		1878		
11		tt	11		1879		
**		11			1880		
ti		11	11		1881		
11		11			1882		
11		11	*1		1883		
11		tt			1884		
- 0			11		1885		
11		10			1886		
11		11	11		1887		
***		11	11		1888		
*1		11	11		1889		
***		11	11		1890		
		*1	11		1891		
		11			1892		
**		11			1893		
					1894		
		11			1895		
11			11		1896	[	
		11	- 11		1897		1
			- 11	••• • •••••	1898		• • • • • • • • • • • • • • • • • • • •
11		11	11		1899	1 150 000 00	
		11	11		1900	1,459,000 00	
"		**	11	**** *** / * * *	1901	F 000 00	
"		11	11		1902	5,000 00	
11		11			1903		
		11	lt.		1904		
11			11		1905 1906		
			11		1906 $1907$		1
-01			11	• • • • • • • • • • • • • • • • • • • •	1907		
			- 11		1908		• • • • • • • • • • • • • • • • • • • •
			11	**** **** **			
**		0.00			1910		

<sup>\*</sup>Included in total cost of Intercolonial Railway system, page 36.

W. C. LITTLE,

Accountant.

# YUKON TERRITORY WORKS. (Stikine-Teslin Railway.)

					$Y_{P3J}$	Construction
						\$ cts.
Government	expend	iture prior to	Confed	leration		
	11	since	11		1868	
	11	11	11		1869	
	11	11	11		1870	
	H	11	- 11		1871	
	11	11	11	***** **** **** ***********************	1872	
	Ħ	11	H		1873	
	11	11	11		1874	1
	11	H	11		1875	
	11	H	11		1876	
	11	**	11		1877	
	11	11	11		1878	
	11	11	11		1879	
	11	**	11		1880	
	11	11	11		1881	
	11	11	11		1882	
	11	11	11		1883	
	11	H	11		1884	
	10	II.	11		1885	
	18	11	11		1886	
	-1	11	11		1887	
	11	11	11		1888	
	U.	11	11		1889	
	11	11	11		1890	
	11	11	11	,,	1891	
	11	11	11		1892	
	11	11	11		1893	
	11	n n	11		1894	
	R	tr	11		1895	
	11	11	11		1896	
	н	11	11		1897	
	*1	11	11		1898	
	11	11	11		1899	
	11	13	11		1900	
	H	11	11		1901	
	H	11	11		1902	283,323 55
	11	11	19		1903	
		11	18		1904	
		11	11		1905	
	11	31			1906	
	*1	11			1907	
	11	11	11		1908	
	11	11	19		1909	
	11		11		1910	

<sup>\*</sup>Included in Public Accounts Balance Sheet, 1902-1903, page 6.

W. C. LITTLE,

Accountant.

#### NATIONAL TRANSCONTINENTAL RAILWAY.

				Year.	Construction
					\$ c
overnment expendi				1000	i
	since	- 11	************************	1868	
11	11	11	******	1869 1870	
11	n n	" "	**********************	1871	
11	11		**** ***** ****** ******	1872	
11	" "	11	****** ****** ****** *****	1873	
11		11		1874	
11	" "		***** *******************	1875	
" "	"			1876	
11		11		1877	
				1878	
11	- 11			1879	
11	11			1880	
	11	11		1881	
11	11	11	• • • • • • • • • • • • • • • • • • • •	1882	
	п	11		1883	
	11	11		1884	
11	11	11		1885	
11	Ti .	11		1886	
11	11	11	**** *** * ****************************	1887	
H H	11	11		1888	
11	п	11		1889	
O.	11	11		1890	
11	п	11		1891	
11	н	11		1892	
11	11	11	• • • • • • • • • • • • • • • • • • • •	1893	
11	tr .	- 11		1894	
11	tt.	ti		1895	
11	0	11		1896	
11	0	11		1897	
11	11	11		1898	
	0	10		1899	
11				1900	
11	11			1901	
Н	H	н		1902	
	11	11		1903	
, 11	11			1904	6,249
11	ti .	- 11		1905	778,491
*P	11			1906	1,841,269 9
11	11	- 0		1907	5,537,867 5
11	11	0	**** ************	1908	18,910,449
11	11			1909	24,892,422
11	11		*****************************	1910	19,968,126

 $<sup>^{*}\</sup>mathrm{Agrees}$  with Public Accounts Balance Sheet, 1909-1910, page 4.

W. C. LITTLE,

Accountant.

#### CANADA EASTERN RAILWAY.

				Year.	Construction.
					\$ cts
Government expendite	are prior to Co	onfederati	on		
11	since	18	1	1868	
n .	11	11		1869	
	11	11		1870	
H	H	11		1871	
n	H	11		1872	
	11	**		1873	
11	Ħ	11	1	1874	
ęr	ti	11		1875	
11	11	11		1876	
11	n			1877	
11	11	11		1878	
11	- 11			1879	
11	51	11		1880	
	11	11		1881	
11	11	11		1882	
14	#1	11		1883	
11	H	11		1884	
11	11	11	1	1885	
11	11	11		1886	
11	11	11		1887	
18	11			1888	
11	41	11	1	1889	
R	11	11		1890	
	11	11	1	1891	
11	H	11		1892	
11	11	11	1	1893	
n	t1	1		1894	
11	41	11		1895	
				1896	
11	11	11		1897	
"		11		1898	
11	11	11		1899	
	11	11		1900	
11	41	11		1901	
ti	11	11		1902	
11	11	11		1903	
	11			1904	
	11	11		905	800,000 00
"	11	11		1906	
"	"	.,		1907	
n n	11	11		1908	19,000 0
11	11		1	1909	20,000
" "	11	11		1910	

<sup>\*</sup>Included in total cost of Intercolonial Railway system, page 36.

W. C. LITTLE,

Accountant.

#### STATEMENT showing amount expended on Capital Account on Railways.

Railways.	_	_
	. \$ cts.	\$ ets.
Intercolonial. Cape Breton Oxford and New Glasgow. Eastern Extension. Drumnond County Montreal and European Short Line. Canada Eastern	82,522,345 63 3,860,679 14 1,949,283 69 1,324,042 81 1,464,000 00 333,942 72 819,000 00	92.273.073 51
Carleton Branch Prince Edward Island Canadian Pacific Annapolis and Digby Yukon Territory Works (Stikine-Teslin Ry.) National Transcontinental Governor General's car. Hudson Bay Railway Surveys.		92,213,073 51 48,410 48 8,465,430 56 62,786,857 74 660,683 09 283,323 55 71,934,877 08 56,538 82 145,470 51
Total		236,654,665 29
Memo. re Recapitulation—Railways.		
Total cost as per statement above	nial Railway, see	236,654,665 29 296,872 90
Agreeing with total of Construction, as per statement, page $50,\ldots$		236,951,538 19

W. C. LITTLE,

Accountant.

#### RECAPITULATION-GOVERNMENT RAILWAYS.

			Year.	Construction.	Working expenses.	Revenue.
				\$ ets.	S ets.	\$ ct
overnment expend	liture prior to (	Confederation		13,881,460 65		
11	since	11	1868	483,353 65	359,961 08	420,752 58
11	11	- 11	1869	282,615 18	387,548 47	455,022 76
11	11	11	1870	1,729,381 49	445,208 75	471,245 09
11	11	11	1871	2,946,930 45	442,993 31	565,713 52
н	11	H	1872	5,620,569 67	595,076 22	622,900 56
- 11	11	11	1873 1874	5,763,268 81	1,011,892 60	703,458 26
- 11		11	1875	3,925,123 69 5,018,427 85	1,847,925 24	893,430 17
11	11	11	1876	4,497,434 75	1,581,934 24 $1,497,128$ 22	886,087 42 966,922 43
11	"	11	1877	3,209,502 16	1,890,268 80	1,285,110 27
11	"	11	1878	2,643,741 73	2,032,873 05	1,514,846 38
11	11	н	1879	2,507,053 71	2,233,496 34	1,419,955 60
11	11	fi	1880	6,109,077 14	1,851,489 26	1,739,137 2
17	11	11	1881	5,577,236 73	2,220,421 39	2,200,486 23
11	It.	11	1882	5,175,046 61	2,310,638 54	2,237,583 39
11	11	11	1883	11,707,619 02	2,636,551 70	2,541,205 4
11	11	11	1884	14,013,074 89	2,613,508 87	2,551,937 97
11	11	11	1885	11,224,244 54	2,749,710 53	2,624,243 07
11		11	1886	4,443,220 17	2,819,973 50	2,628,336 38
H	11	Н	1887	1,846,887 18	3,152,650 40	2,840,747 88
H	11	11	1888	1,765,582 11	3,621,076 62	3,166,253 22
11	- 11	11	1889	2,709,857 37	3,513,063 67	3,167,542 67
15	11	11	1890	2,392,767 99	3,846,044 42	3,203,874 1
Н	It.	11	$\frac{1891}{1892}$	1,184,317 34	3,949,263 73	3,181,888 50
11	11	- 11	1893	417,425 73	3,748,597 77	3,136,393 5
11	11	11	1894	712,917 44 585,749 01	3,288,629 62 3,226,208 13	3,262,505 63 $3,179,019$ 57
11	"	11	1895	376,814 83	3,197,846 17	3,129,450 37
"	11	11	1896	324,774 72	3,254,442 64	3,140,678 47
11	" "	11	1897	204,624 31	3,195,959 58	3,060,074 38
11	11	11	1898	270,990 85	3,507,248 88	3,313,847 10
11	11	11	1899	1,112,348 47	3,696,612 31	3,940,570 13
11	11	11	1900	3,309,130 42	4,665,228 06	4,774,161 87
11	11	11	1901	3,922,989 37	5,739,051 54	5,213,381 2
H .	11	11	1902	5,386,611 24	5,861,099 54	5,918,990 43
11	11	1)	1903	3,083,680 86	6,474,134 20	6,584,598 77
	ft	H .	1904	2,619,059 86	7,599,958 57	6,627,255 5
	11	11	1905	6,125,481 79	8,906,154 35	7,050,892 11
11	11	Н	1906	6,102,565 74	7,893,653 49	7,950,552 97
	11	11	1907	7,174,370 17	6,328,745 65	6,509,186 49
11	11	11	1908	23,684,005 25	9,595,295 43	9,534,569 04
11	11	П	1909	29,414,227 34	9,764,586 51	8,894.420 42
П	11	11	1910	21,505,975 91	9,095,903 96	9,647,963 71
To	tal			*236,991,538 19	158,650,055 35	147,157,192 85

W. C LITTLE,

Accountant.

<sup>†</sup> Agreeing with amount expended on Capital Account on Railways, see page 49.

STATEMENT showing Miscellaneous Expenditure yearly, by the Department of Railways and Canals.

Year ending.	Chargeable to Capital.	Chargeable to Income.			Chargea	вье то Ве	VENUE.	Total Yearly
Year	Canals.	Canals.	Railways.	General.	Canals.	Railways.	General.	Expenditure
	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ cts.
1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1881. 1882. 1881. 1882. 1883. 1884. 1885. 1886. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1899. 1899.		1,860 00 2,561 55		20,049 50 36,891 74 40,098 84 35,579 24 42,920 10	323 16 5,535 22 9,826 23 6,978 54 8,305 41 1,210 61	1,400 00	6,889 20 5,428 98 5,620 17 5,690 28 34,388 59	20,722 32 21,367 52 34,231 70 46,792 70 32,258 26 55,880 38 58,487 07 53,246 84 48,696 46 43,691 84 36,804 59 
1902. 1903. 1904. 1905. 1906.		3,658 23 2,491 84 3,730 79 1,498 14 9,160 44	21,752 58 15,570 43 85,353 17 97,507 00 99,018 80	34,138 50 35,398 00 36,262 32 38,660 52 37,484 64	$\begin{array}{c} 61,333 \ 61 \\ 65,770 \ 65 \\ 63,175 \ 19 \\ 66,067 \ 30 \\ 64,515 \ 07 \\ 62,171 \ 45 \end{array}$			136,832 06 125,319 96 116,635 46 191,413 58 202,180 73 207,835 33
1907. 1908. 1909. 1910.	14,999 70 5,034 00	9,687 55 24,760 08 28,819 54 29,421 06	92,115 62 178,266 39 604,483 02 212,117 54	34,183 75 45,115 99 20,912 04 4,706 79	66,251 27 105,518 99 106,065 87 111,755 68			202,238 19 368,661 15 765,314 47 358,001 07
	20,033 70	346,078 68	1,810,672 53	740,647 27	1,594,204 03	45,039 97	69,711 05	4,626,387 23
						*** O T	TOTAL TA	

W. C. LITTLE,
Accountant.

Capital Account ...

1 GEORGE V., A. 1911

#### RECAPITULATION-RAILWAYS AND CANALS, TO MARCH 31, 1910.

#### EXPENDITURE.

Chargeable to Capital Account— Railways, see Statement page 49		000 000 114 00
Chargeable to Consolidated Fund— *Railway Subsidies as per Statement page 54 to 63		333,637,114 66
Income Account—         Intercolonial Railway       see page 35.       \$ 280,000 00         Add transferred from Capital       " 36.       296,872 90         Railways       " 51.       1,810,672 53         Canals       " 31.       6,221,471 41         " 51.       346,078 68         General, Railways and Canals       " 51.       740,647 27		
Revenue Account—         Canals—Operating and maintaining staff, see page 31.8 11,695,850 15         Canals—Repairs, see page 31       9,488,902 94         ""       51       1,594,204 03         Railways—Working expenses, see page 50       158,650,055 35         ""       51       45,039 97         General—Railways and Canals       51       69 711 05	9,695,742 79	232,689,622 56
Total expenditure on Railways and Canals		566,326,737 22

#### EXPENDITURE AS ABOVE SEPARATED AS BETWEEN RAILWAYS AND CANALS.

## RAILWAYS. ...... \$ 236,654,665 29

Consolidated Fund.	202,532,757 03 	439,187,422 32
Canals,		
Capital Account	96,982,449 37 29,346,507 21	126,328,956 58
Total		565,516,378 90
General, Common to both.		
Consolidated Fund		810,358 32

#### REVENUE, SEPARATED AS BETWEEN RAILWAYS AND CANALS.

Total expenditure on Railways and Canals......\$ 566,326,737 22

Railways- Canals	-Revenue receiv	ed from July 1	, 1867, to	March 31,	1910 (for (	details see	page 50). \$ 31).	147,157,192 85 14,156,354 14
	Total revenue,	Railways and	Canals.				s	161,313,546 99

<sup>\*</sup> This amount does not include the subsidy of \$25,000.000 to the Canadian Pacific Railway, nor the amount \$660,683 09 expended on the Annapolis and Digby Railway, both of which are included in Capital Account, 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 up to 1905, granted by 47 Vict., cap. 8 (1884) and the annual payment of \$107,730 being interest at the rate of 4½ per cent since and including 1905 on the said sum of \$2,394,000 for the line between Ottawa and Quebec which sum was transferred to the Public Debt as a liability, and is dealt with by the Finance Department (sec Public Accounts, 1898-1910, and page 79, 1908).

W. C. LITTLE,

Accountant.

### STATEMENT

SHOWING SUBSIDIES VOTED FOR RAILWAYS AS TO WHICH CONTRACTS HAVE BEEN ENTERED INTO AND PAYMENTS MADE FROM JULY 1, 1883 TO MARCH 31, 1910.

1 GEORGE V., A. 1911 Statement showing subsidies voted for Railways as to which Contracts

Authority. Amount.		Railways.	July 1, 1883, to June 30, 1903.
	\$ cts.		S ets.
46 Vic., chap. 25		Letomotional Dailmon On hos	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	384,000 00 80,000 00 96,000 00 186,295 00 28,800 00	International Railway, Quebec	156,800 00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	96,000 00 64,000 00 30,000 00 5,250 00 44,800 00 89,600 00	Quebec and Lake St. John Railway, Quebec	1,006,743 50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	70,000 00 12,800 00 32,000 00 64,000 00	Kingston, Napanee and Western Ry., formerly Napanee, Tamworth and Quebec Ry., Ontario	208,732 80
47 " 8 3 51 " 3 2	$\begin{array}{c} 272,000 & 00 \\ 41,000 & 00 \\ 24,000 & 00 \end{array}$	Pontiac Pacific Junction Railway, Quebec	193,578 00
46 " 25 47 " 8 50-1 " 24 47 " 8	115,200 00 76,800 00 32,000 00 32,000 00 57,600 00	Caraquette, Railway, N.E	224,000 00
49 " 10 52 " 3 53 " 2 56 " 2 57-8 " 4	22,400 00 48,000 00 48,000 00 70,400 00	Canadian Northern Quebec Ry. Co., formerly Great Northern Ry., Quebec	557,788 31
47 , 8	48,000 00	Kingston and Pembroke Railway, Ontario	48,000 00
45 11 14 46 26 53 11 2 47 11 8	660,000 00 660,000 00 128,000 00	Northern and Pacific Junction Railway, Quebec	1,320,000 00
48-9 " 59 49 " 10 48-9 " 59 51 " 3 57-8 " 4 62-3 " 7	19,200 00 32,000 00 24,439 84 140,800 00 35,200 00 *	Canada Eastern Ry., formerly Northern and Western Ry., N.B., including also Chatham Branch Ry	374,839 84
47 " 8 51 " 3 53 " 2	60,342 00 288,000 00	Quebec Central Railway, Quebec	348,342 00
48-9 II 59 53 II 2	72,000 00 40,000 00	Montreal and Sorel Railway, Quebec	93,757.57
48-9 " 59 50-1 " 24 51 " 3	30,000 00 64,000 00 9,600 00	Montreal and Champlain Junction Railway, Quebec.	103,600 00
46 " 25 51 " 3	38,400 00 44 252 82	Elgin, Petitcodiac and Havelock Railway, Quebec	82,652 82
47 ii 8 48-9 ii 59	22,400 60 96,000 00	St. Louis and Richibucto Railway, N.B	22,400 00
49 " 10 50-1 " 24 47 " 6	$\begin{array}{c} 38,400 \ 00 \\ 180,000 \ 00 \\ 750,000 \ 00 \end{array}$	Esquimalt and Nanaimo Railway, B. C	282,355 20 750,000 00
47 " 8 46 " 25	96,000 00 320,000 00	Erie and Huron Railway, Ontario	96,000 00
47 n 8 52 n 3	200,000,00		620,000 00
		Carried forward	6,489,590 04

SESSIONAL PAPER No. 20

have been entered into and Payments made up to March 31, 1910.

Payments.								
1903-1904.	1904-1905.	1905-1906.	1906-1907.	1907-1908.	1908-1909.	1909-1910.	Total March 31, 1910.	
\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	
							156,800 00	
							•	
	*** *****	86,016 00	67,712 00	73,472 00			1,233,943 50	
					Ì			
••••							208,732 80	
`							102 578 00	
							193,578 00	
				••••••		• • • • • • • • • • • • • • • • • • • •	224,000 00	
				256,870 40	55 110 60	164 179 90	1.094.000.00	
			• • • • • • • • • • • • • • • •	200,010 40	55,445 00	104,172 29	1,034,280 60	
••••							48,000 00	
							1,320,000 00	
					İ			
	• • • • • • • • • •	• • • • • • • • •	······································				374,839 84	
				EE (90 (90)			100.000.00	
	*********	* * * * * * * * * * * * * * * * * * * *	• • • • • • • • • • •	55,638 69			403,980 69	
***			**********				93,757 57 103,600 00	
							82,652 82	
							22,400 00	
							282,355 20	
	•••••						750,000 00 96,000 00	
							620,000 00	
•••••		86,016 00	67,712 00	385,981 09	55,449 60	164,172 29	248,921 02	

1 GEORGE V., A. 1911 Statement showing Subsidies Voted for Railways as to which Contracts have

SUBSIDIES VOTED.		Danimara	July 1, 1883
Authority.	Amount.	Railways.	June 30, 1903.
	\$ ets.		\$ cts
		Brought forward	6,489,590 0
8-9 Vic., c. 59		New Brunswick and Prince Edward Island, Ry. N. B., Laurentian Railway, formerly St. Lawrence, Lower	113,440 0
9 10 10		Laurentian and Saguenay Ry., Quebec  L'Assomption Railway, Quebec	217,600 0 11,200 0
9 11 10 60-1 11 24 66 11 2 63 11 2	32,000 00 96,000 00 64,000 00 37,500 00	Great Eastern Railway, Quebec	40,345 0
17 " 8 52 " 3	160,000,00	Irondale, Bancroft and Ottawa Railway, Ontario	144,000 0
9 10 10 10 10 10 10 10 10 10 10 10 10 10		Buctouche and Moucton Railway, N.B	101,600 0
7 " 8	)	Albert Southern Railway, N B	50,460 0
6-1 " 24 7-8 " 4	$\begin{array}{c} 65,200 \ 00 \\ 274,940 \ 00 \end{array}$	Lake Temiscamingue Colonization Railway, Quebec.	310,335 9
19 " 10 50-1 " 24	38,400 00 4,000 00	Joggins Railway, N.S	37,500 0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 240,000 & 00 \\ 258,000 & 00 \\ 100,000 & 00 \\ 51,200 & 00 \end{array}$	Témiscouata Railway, N.B., and Quebec	645,950 0
18-9 ii 59 50-1 ii 24	44,800 00 6,400 00	Leamington and Saiut Clair Railway, Ontario	51,200 0
19 " 10 50-1 " 24	16,000 00	Torontc, Grey and Bruce Railway, Ontario.  Dominion Liune Co., Quebec	14,656 0 15,360 0
9 1 10 2		West Ontario Pacific Railway and Ontario and Quebec Railway	256,000 0
50-1 11 24 52 11 3 53 11 2 57-8 11 4	96,000 00 14,400 00 76,800 00 96,000 00	Drummond County Railway, Quebec	423,936 0
18-9 " 59 3 " 2	199 000 00	D. od oth. Work on and Sould See Marie Ru. Onk	105 900 0
54-5 " 8 57-8 " 4	00 000 40	Brockville, Westport and Sault Ste. Marie Ry., Ont.	105,200 0
19 " 10 53 " 2	$\begin{array}{c} 32,000 & 00 \\ 10,200 & 00 \end{array}$	Montreal and Lake Maskinonge Kanway, Quebec	41,280 0
50-1 " 24 50-1 " 24		South Norfolk Railway, Ontario Guelph Junction Railway, Ontario	54,400 0 46,000 0
18-9 11 59 19 11 10	22,400 00	Belleville and North Hastings Railway, Ontario	21,888 0
19 " 10 52 " 3	108,800 00 48,000 00	Hereford Railway, Quebec	155,200 0
50-1 " 24 55-6 " 5 62-3 " 7	118,400 00 224,000 00 *	Lake Erie and Detroit River Railway, Ontario	475,851 0
50-1 1 24	62,400 00	Beauharnois Junction Railway, Quebec	62,400 0
50-1 " 24 55-6 " 5	138,400 00 108,000 00	St. Catharines and Niagara Central Railway, Ontario	38,400 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Fredericton and St. Mary's Railway Bridge Co., N. B Harvey Branch Railway Co., NB	30,000 0 5,553 5
55-6 1 5	1	Nova Scotia Central Railway Co., N. S	235,200 0
50-1 24 52 3	44,800 00	Cumberland Railway and Coal Co., N. S	39,850 0 13,600 0
52 1 3 3 63-4 1 8	54,400 00	Thousand Islands Railway Co., Ontario	29,840 0
		Carried forward	10,277,835 5

SESSIONAL PAPER No. 20 been entered into and Payments made up to March 31, 1910—Continued.

Payments.							Total
1903-64.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.	1909-10.	March 31, 1910.
\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ ets.
		86,016 00	67,712 00	385,981 09	55,449 60	164,172 29	248,921 02
							113,440 00
		*					217,600 00 11,200 00
					• • • • • • • • • • • • • • • • • • • •		40,345 00
	•••••				• • • • • • • • • • • • • • • • • • • •		144,000 00
							101,600 00
							50,460 00
	• • • • • • • • • • • • • • • • • • • •					• • • • • • • • • • • • • • • • • • • •	310,335 95
	• • • • • • • • • • •						37,500 00
							645,950 00
							51,200 00
							14,656 00 15,360 00
							256,000 00
	• • • • • • • • • • • • • • • • • • • •						423,936 00
	• • • • • • • • • • •	••• •••	35,600 00	e	* * * * * * * * * * * * * * * * * * * *		140,800 00
* * * · • • • • • • • •							41,280 00
						•••	54,400 00 46,000 00
							21,888 00
						*********	155,200 00
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	****		475,851 00
	•••••						62,400 00
				• • • • • • • • • • • • • • • • • • • •			38,400 00
							30,000 00 5,553 57
							235,200 00
							39,850 00 13,600 00
							29,840 00
••••		86,016 00	103,312 00	385,981 09	55,449 60	164,172 29	11,072,766 54

1 GEORGE V., A. 1911 Statement showing the subsidies voted for Railways as to which Contracts have

Subsidies Voted.		Railways.	July 1, 1883,
Authority.	Amount.	Halbu als.	June 30, 1903
	8 c.		S cts
}		Brought forward	10,277,835 5
52 Vic., chap. 3	96,000 00	Quebec. Moutmorency and Charlevoix, Ry. Co. Quebec	96,000 0
56 u 3 52 u 3	J.	St. Clair Froutier Tunnel Co., Ontario	375,000 0
50-1 " 24		Brantford, Waterloo and Lake Erie, Railway, Ontario-	57,600 0
51 1 3	287,200 00	Port Arthur, Duluth and Western Railway, Ontario	271,200 0
50-1 . 24	ì		
53 " 2 54-5 " 8	192,000 00	Montreal and Ottawa Railway, Ontario	192,000 0
57-8 " 4 50-1 " 24	} } 44.800 00	Cornwallis Valley Railway, N.S.	44,800 0
52 " 3	320,000 00		,
57-8 " 6 50-1 " 4 47 " 8	64,000 00		292,320 0
51 " 3	83,612 54	100	
53 " 2 57-8 " 4 61 " 1	142,400 00 48,000 00	Central Railway, N.B	226,012 5
32-3 n 1 33 n 2		Moutreal and Western Railway, Quebec.	361,270 0
52 11 3 57·8 11 4 52 11 3	64,000 00 163,200 00		152,800 0 163,200 0
$egin{array}{cccccccccccccccccccccccccccccccccccc$	89,600 00 35,200 00	)	134,016 0
5-6 " 5	9,600 00		88,800 0
53 n 2 53 n 2 53 v 2	35,200 00	Waterloo Juuction Railway, Ontario. Orford, Mountaiu Railway, Quebec	32,800 0 84,800 0
3 " 2	57,600 00		149,481 6
5-6 " 5	25,024 00 *40 000 00	New Glasgow Iron, Coal and Railway Co., N.S	39,840 0
6 " 2	102,400 00	United Counties Railway Onebec	188,816 0
57-8 " 4 55-6 " 5 55-6 " 5		Philipsburg Juuction Ry. Quarry Company, Quebec Ottawa, Arnprior and Parry Sound Railway, Ontario	23,712 0 779,712 0
56 " 2 7-8 " 4	67,200 00 38,400 00		167,440 0
0-61 " 4 5-6 " 5	66,000 00 48,000 00		
7-8 11 4	48,000 00	Lotomiere and Megantic Ranway, Quebec	96,000 0
5-6 1 5	80,000 00	Grand Trunk, Georgian Bay and Lake Erie Ry., Ont Canadian Pacific Ry., B.C., Revelstoke to Arrow Lake.	39,744 0 80,000 0
7-8 11 4	121,600 00	Nakusp and Slocan, Railway, B.C.	117,760 0 87,808 0
5-7 11 5	22,400 00	Dominion Coal Company, N.S. Oshawa Railway and Navigation Company, Outario.	87,808 0 22,400 0
7-8 11 4	*51,200 00	Tilsonburg, Lake Erie and Pacific Railway, Ontario	113,431 4
66 " 2	*38,400 00	St. Stephen's and Milltown Railway, N.B	$14,848  0 \\ 53,699  2$
7-8 4	9,000 00	Cap de la Madeleine Railway, Quebec	7,424 0
56 # 2	32,000 00 *	Ontario, Belmont and Northern Ry. Company, Ont Coast line of Nova Scotia, now Halifax and Yarmouth R.	$30,720 \ 00$ $150,400 \ 00$
*	*	Ottawa and New York Railway Company, Ontario	262,384 00

been entered into and Payments made up to March 31, 1910 -Continued.

			P	'AYMENTS.			Total
1903-04.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.	1909-10.	March 31, 1910.
\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
* * * * * * * * * * * * * * * * * * * *		86,016 00	103,312 00	385,981 09	55,449 60	164,172 29	11,072,766 54
			 				96,000 00
							375,000 00
							57,600 00
• • • • • • • • • • • • • • • • • • • •							271,200 00
					}		192,000 00
							44,800 00
118,368 00				4,243 20			414,931 20
* * * * * * * * * * * * * * * * * * * *	•						226,012 54
			1				361,270 00
							152,800 00
• • • • • • • • • • • • • • • • • • • •							163,200 00
*******	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *					134,016 00
•••••							\$8,800 00 32,800 00
	38,250 00	45,764 50		24,123 00			192,942 50
• • • • • • • • • • • • • • • • • • • •							149,481 60
							39,840 00
							188,816 00
							23,712 00 779,712 00
		 					167,440 00
							96,000 00
							39,744 00
							80,000 00
							87,808 00 22,400 00
4,000 00							117,431 48
							14,848 00 53,699 20
							7,424 00 30,720 00
,							[ 160,000 00
* * * * * * * * * * *	***********						262,384 00
131,968 00	38,250 00	131,780 50	103,312 00	414,352 29	55,449 60	164,172 29	16,323,359 06

1 GEORGE V., A. 1911 STATEMENT showing Subsidies Voted for Railways as to which Contracts have

Subsidies	VOTED.	Railwaes.	July 1, 1883, to June 30, 1903.
Authority.	Amount.		June 30, 1503.
	\$ c.		\$ ets.
		Brought forward	15,276.074 38
60-61 Vic., e, 5	3,630,000 00	Canadian Pacific Railway Co, B.C. (Crow's nest Pass).	3,381,774 00
60-61 H 4	500,000 00	Grand Trunk Ry. Co., 'Victoria Jubilee Bridge,' Que.	500,000 00
*	*	International Ry, of New Brunswick, formerly Resti-	10,000,00
*	*	gouche and Western Ry. Co  East Richelieu Railway Co , Quebec	46,930 00 69,952 00
74	*	South Shore Railway (Quebec, Montreal and Southern)	119,290 19
*	*	South Shore Railway (Quebec, Montreal and Southern) Pembroke Southern Railway, Ontario.  Massawippi Valley Railway Co., Quebec.	64.000 00 5,376 00
*	*	inverness and recombined Co., A.S., now inverness ity.	
*	*	and Coal Co.  Canadian Northern Railway Co., Ontario, Manitoba	311,375 53 1,534,976 00
*	*	and N.W.T Canadian Pacific Railway Co. (Pipestone Branch)	160,000 00
*	*	Central Ontario Railway Co., Outario.  Midland Railway Co., N S	$\begin{array}{c} 67,200 \ 00 \\ 360,450 \ 30 \end{array}$
62-3 Vie., c. 7	1 000 060 06	Quebec Bridge Co., Quebec.	374,353 33
62-3 Vie., c. 7	*	St. Mary River Railway Co., N.W.T	75,000 00
60-1 Vic., c. 4	212,500 00	Pontiac and Pacific and Ottawa and Gatineau Ry.	
63–4 " 2 1 Ed. VII, c. 7	*	'   Co. (Interprovincial Bridge over Ottawa River) Atlantic and Lake Superior Railway Quebec	212,500 00 67,153 98
1 7	*	Montreal and Province Line Railway, Quebec	58,560 00
62-3 Vic., c. 7	,	York and Carleton Railway, N.B	18,336 00
63-4 " 8 1 Ed. VII, c. 7	*	Algoma Central and Hudson Bay Railway, Ontario	583,536 00
*	*	Cape Breton Extension Railway, N.S.	65,280 00
*	*	Can. Pacific Ry. Co. (Kootenay and Arrowhead Br'ch).  (Selkirk Branch)	42,771 00 83,200 00
*	*	(Dyment Branch)	23,336 00 50,480 00
*	*	(Waskada Branch)	32,000 00
*	*	Bay of Quinté Railway Ont	19,200 00 28,800 00
*	*	Bruce Mines and Algoma Railway, Ont	3,552 00
*	*	The Canadian Northern Quebec Ry., formerly Chateau-	
*	*	guay and Northern Ry., Quebec. Canadian Pacific Ry. Co. (Pheasant Hill Branch)	
*	*	Halifax and Southwestern Railway Co., N.S Northern Colonization Railway Co., Quebec	
*	*	New Brunswick Coal and Railway Co., N.B	
*	*	Schomberg and Aurora Railway Co., OntLindsay, Bobcaygeon and Pontypool Ry. Co., Out	
*	*	Middleton and Victoria Beach Ry. Co., N.S	
3 Ed. VII, c. 57	*	Beersville Coal and Railway Co., N.B	
4 ,, 34	*	Canadian Pacific Railway (Staynerville Branch).,	
6 " 43	*	Canadian Pacific Railway (Staynerville Branch)., Klondike Mines Railway. Kettle River Valley Ry. Co., B.C.	
6 11 431	*	Colchester Coal and Ry. Co., N.S	
3 " 57 6 " 43	*	Minudie Coal Co., N.S. Atlantic, Quebec and Western Ry. Co., Quebec	
6 " 43	*	Napierville Jct. Ry. Co., Quebec. Edmonton, Yukon and Pacific Ry. Co., Alberta	
6-7 n 40 6-7 n 40	*	Canadian Northern Ontario Ry. Co., Alberta.  Bay Ry. Co., Ontario	
		Carried forward	
1		Carried forward	

<sup>†</sup> Of this amount \$16,164.43 were in connection with subsidy to Montreal and Sorel Railway.

SESSIONAL PAPER No. 20

been entered into and Payments made up to March 31, 1910 -Continued.

		PA	YMENTS.				Total March 31,
1903–1904.	1904-1905.	1905-1906.	1906–1907.	1907-1908.	1908-1909.	1909-1910.	1910.
\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ ets
131,968 00	38,250 00	131,780 50	103,312 00	414,352 29	55,449 60	164,172 29	16,323,359 06
• • • • • • • • • • • • • • • • • • • •					• • • • • • • • •		3.404,720 00
							500,000 00
30,208 00		50,070 07	51,200 00		189,849 60	187,494 40	555,752 07
80,494 16	3,456 46				43,414 55	184,320 00	$\begin{bmatrix} & 69,952 & 00 \\ & †430,975 & 36 \end{bmatrix}$
							$\begin{array}{c} 64,000 \ 00 \\ 5,376 \ 00 \end{array}$
57,170 44							368,545 97
							1,909,132 00
				76 961 96	35,404 64		160,000 00 179,466 00
1,750 00			4,967 70	31,892 40	33,404 04		399,060 40
		• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • •	374,353 33
40,960 00							148,094 00
37,000 00	42,336 86		‡1,521 82				212,500 00 $a144,969 02$
				14.560 00			58,560 00 32,896 00
	341.440 00						924,976 00
117,120 00							196,800 00
17,842 85	4,176 15	89,076 00					153,866 00
************				• • • • • • • • •			83,200 00 22,336 00
13,520 00	• • • • • • • •						64,000 00 32,000 00
49,920 00	25,120 00		72,602 45				141,722 45 53,920 (x)
• • • • • • • • • • • • • • • • • • • •		•••		*			3,552 00
191,595 00 378,624 00	56,576 00	116,000 00					391,819 75 435,200 00
185,422 00 58,384 00	291,842 00		268,107 20	316,567 73	68,320 00	152 190 00	1,238,450 93 355,200 00
48,000 00					08,520 00		48,000 00
46,144 00	185,173 06	**********					46,144 00 185,173 06
• • • • • • • • • • • • • • • • • • • •	47,789 00 20,736 00		27,667 20				125,760 00 20,736 00
• • • • • • • • • • • • • • • • • • • •		110,592 00	9,600 00				300,800 00 13,024 00
			96,000 00	101,184 00 97,771 52			197,184 00 97,771 52
				12,800 00 18,544 00			12,800 00 18,544 00
				64,000 00	92,672 00	208,896 00	365,568 00
• • • • • • • • • • • • • • • • • • • •				173,440 00 91,200 00			173,440 00 91,200 00
		651,264 00	420,608 00	244,224 00	556,864 00	250,982 40	2,123,942 40
1 900 950 45	1 000 000 ***	1 450 074 27	1 126 767 19	1 951 000 20	1 041 074 20	1 100 905 00	32,087,456 23

a Amount actually paid after deductions amounting to \$1,521.82 made in 1905-06 (being for refunds, duplicate claims, &c,) from the total of \$146,490.84, previously reported, for which cheques had issued. ‡ Refunds for duplicate claims and claims still unpaid.

1 GEORGE V., A. 1911 STATEMENT showing Subsidies voted for Railways as to which Contracts

Subsub:	Amount.	Railways.	July 1, 1883 to June 30, 1903.
	\$ ets.		S cts.
		Brought forward	23,657,402 71
7-8 6 6 6 6 6	* * * * * * * * * * * * * * * * * * *	Maritime Coal and Ry. Co. St. Mary and Western Ontario Ry. Co. North Shore Ry. Co. St. Maurice Valley Ry. Co. Grand Trunk Pacific Ry. Co. Canadian Pacific Ry. Co., Teulon to Icelandic River. Canadian Pacific Ry. Co., Moosejaw northwesterly.	
			23,657,402 71
37 Vic., ch. 3 46 " 47 " 48-9 "	2 1,525,250 00	Atlantic and Northwestern Railway.  Canada Ceutral Railway  Canadian Pacific, extension	1,525,250 00
		Totals	29,295,052 71

<sup>\* 60-61</sup> Victoria, Cap. 4, 62-63 Victoria, Cap. 7, 63-64 Victoria, Cap. 8, 1 Edward VII., Cap. 7, 40, and 7-8 Edward VII., Cap. 63, authorize \$3,200 per mile subsidy if the cost does not average of the average cost of the mileage subsidized as is in excess of \$15,000 per mile, such subsidy not

DEPARTMENT OF RAILWAYS AND CANALS, OTTAWA, July 23, 1910.

SESSIONAL PAPER No. 20

have been entered into and Payments made up to March 31, 1910 - Concluded.

	Payments,						Total March 31,
1903-1904.	1904-1905	1905-1906.	1906-1907.	1907-1908.	1908-1909.	1909-1910.	1910.
\$ ets.	\$ cts.	\$ cts.	\$ ets.				
1,860,278 45	1,089,029 53	1,450,974 37	1,136,767 48	1,851,029 30	1,041,974 39 3,200 00	1,163,385 09	32,087,456 23 3,260 00
					$\begin{array}{r} 67,344 \ 00 \\ 6,880 \ 00 \\ 112,640 \ 00 \end{array}$		67,344 00 6,880 00 112,640 00
					367,249 00	550,551 96 30,800 00 303,360 00	30,800 00
1,860,278 45	1,089,029 53	1,450,974 37	1,136,767 48	1,851,029 30	1,599,287 39	2,048,097 05	34,695,866 28
186,600 00	186,600 0)	186,600 00	186,600 00	186,600 00	186,600 00		3,732,000 00 1,525,250 00
							1,500,000 00
2,046,878 45	1,275,629 53	1,637,574 37	1,323,367 48	2,037,629 30	1,785,887 39	2,048,097 05	41,450,116 28

<sup>3</sup> Edward VII., Cap. 57, 4 Edward VII., Cap. 34, 6 Edward VII., Cap. 43, 6-7 Edward VII., Cap. more than \$15,000 per mile, if over that amount, a further sum of fifty per cent on so much exceeding in the whole the sum of \$6,400 per mile.

W. C. LITTLE,

Accountant.



# PART II

# STATEMENTS

OF THE

# DEPARTMENTAL SOLICITOR

# FOR THE YEAR 1909-10

# SHOWING

- (1) Money subsidy agreements with railway companies.
- (2) Contracts entered into during the year.
- (3) Leases of water-powers and properties granted.
- (4) Property conveyed by the Crown and lands conveyed to the Crown.
- (5) Damages released.

1 GEORGE V., A. 1911 Subsidy Agreements for the construction of Railways

No. of Contract.	Date of Signature. Railway Company.		Railway Company. or				ilway Company. or					
							_					
	19	909.							190	9.		
17992	Oct.	20	Atlantic, Quebec and Western Ry. Co.	2S bridges on line of company's railway.	Can.,	190S,	c.	63.	July	29		
17631*	April	5	Canadian Northern Quebec Ry. Co.	From or from near Garneau Jct, to Quebec, with branch lines towards Quebec bridge.	Can.,	1908,	c.	63.	Feb.	1		
17792	June	<b>2</b> 8	46 46	From Hawkesbury to Ottawa, 60 miles.	Can.,	1908,	c.	63.	March	9		
17802†	July	7	Cape Breton Ry. Co., Ltd.	From Point Hawkesbury or Point Tupper on Strait of Canso to St. Peters.	Can.,	1908,	c.	63.	Мау	15		
17831	July	22	Matane and Gaspé Ry. Co.	From point at or near Ste. Flavie on I.C. Ry. to Matane in lieu of subsidy granted by c. 43 of 1906.		1908,	c.	63.	April	16		
	1								19	08.		
18053‡	Nov.	23	The Manitoulin and North Shore Ry. Co.	(a) From a point on the said line of railway, between Little Current and Sudbury westerly towards the Algoma Central and Hudson Bay Railway, 100 miles; (b) from Little Current crossing C.P.R. at or near Stanley and thence to Sudbury, 64 miles, (c) from point near Sudbury, northerly 30 miles in lieu of the subsidies granted by Cap. 43 of 1906, S. 1, item 1, not exceeding in all 194 miles.	Can.,	1908,	c.	63.		21		
18069	Dec.	7	Oueher Central Ry Co.	From St. George to or towards	Con	1908	C	63		<b>2</b> 9		
20000	200.		quesco ocuviai rey.oo.	St. Justine.	Carry	2000;		our.	- aij			
18082	Dec.	14	Tobique & Campbellton Ry. Co.	From point on Canadian Pacific Railway at or near Plaster Rock to Riley Brook.	Can.,	1908,	c.	63.	Nov.	1		
	19	910.										
18114	Jan.	10	Quebec and Lake St. John Ry. Co.	From end of 35th mile of La Tuque branch on St. Maurice river, to La Tuque Falls.	Can.,	190S,	c.	63.	Dec.	9		

<sup>\*</sup>Assigned to Canadian Northern Ontario Railway Company by Assignment No. 17931, dated Aug. 30, 1909. †Cancels and supersedes No. 13948 of Sept. 15, 1900. ‡Cancels and supersedes No. 14690 of May 15, 1902.

SESSIONAL PAPER No. 20 entered into during the Fiscal Year ended March 31, 1910.

AMOUNT O	F Subsidy.	Miles ed.	Grade Mile.	Curva- less	learing e.	Jutting.	ent.	l bs.		=
Per Mile.	Not exceed- ing	Number of Miles Subsidized.	Maximum Grade Feet per Mile.	Radius of Curva- ture not less than	Width of Clearing each Side.	Width of Cutting.	Embankment.	Steel Rails, lbs. per lineal yard.	Date for Completion.	•
\$	\$		Feet.	Feet.	Feet.	Feet.	Feet.	Lbs.		
	250,000								Aug. 1, 19	12
3,200	6,400	83	152.80	955	50	20	15	56	July 31, 19	10
3,200	6,400	60	26	955	50	20	15	56	Aug. 1, 19	10
3,200	6,400	31	80	819	50	20	15	56	Dec. 31, 19	10
3,200	6,400	38	42	955	50	20	15	56	Aug. 1, 19	12
3,200	6,400	194	79	12°	50	20	15	56	Nov. 30, 19	11
3,200	6,400	30	63	955	50	20	15	56	Dec. 1, 19	
3,200	6,400	28 80		819 or 7°	50	20	15	56	Dec. 1, 19	11
3,200	6,400	5	152.80	717	50	20	15	56	Sept. 1, 19	10

H. F. ALWARD,

Departmental Solicitor.

# CONTRACTS entered into during the Fiscal Year ended March 31, 1910.

# INTERCOLONIAL RAILWAY.

No. of Con- tract.	Da o Signa	f	Contractors.	Description.
	196	09.		
17625	April	Ι	New Brunswick Wire Fence Com-	Erection of fencing on line of Intercolonial Railway.
17632	44	16	pany, Ltd. Wm. Hood & Sons	Repairs to railway between Indiantown and Blackville
17653 17673	64	16	Rhodes, Curry & Company, Ltd The Vaughan Electric Company, Ltd.	Deliver 150 hox cars.  Install fire alarm box, &c., for yard station grain elevators and sheds at St. John, N.B.
17689 17690	May	4	Farquhar Brothers Bahcock & Wilcox, Ltd	Electric wiring of passenger station, &c., at Maccan, N.S. Complete installation of present 500 h.p. and install additional Bahcock boiler of 500 h.p., &c. Replacing of telephone instruments in the several
17693	"-	4 .		
17694 17704	46	5 12	Rhodes, Curry and Company, Ltd Canada Foundry Company, Ltd	the towns and cities along company's long line system in New Brunswick. Deliver 2,500 33-inch car wheels, 5-in. core. Supply, &c., 15-inch lap-welded steam heater for the hoilers in power house at Moncton, N.B.
17705	и	10	Canada Iron and Foundry Company, Ltd.	Deliver 1,500 33-inch car wheels, 4½-inch core.
17707	и	12	Emil A. Wallberg.	Supply, &c., fan system of heating for machine shop, erecting shop, &c., at Rivière du Loup, Que. Electric wiring of round house, &c., at Newcastle, N.B.
17709	u	12 25	Ino L. Richardson & Company	Deliver LUGO 33-inch car wheels, b-inch core.
17710 17738 17786	June "	3 11	Jno. L. Richardson & Company, A. A. Portugais A. Charles Thompson	Install hot water heating plant at Amqui, Que. Install plumhing and heating system in Iona station, N.S.
17787	**	21	Wm. Gall as (The Shade Electric Co.)	Electric wiring of new train service building at Chaudiere Junction, Que.
17790 17791	46	$\frac{24}{26}$	Crossen Car Mfg. Co. of Cohourg Wm. A. and John M. Skidd	Deliver three (3) baggage cars. Install ten 16 c.p. incandescent lamps at new freight
17823	July	23	F. A. Ronan & Company	shed at Bathurst, N.B. Erect fencing on Intercolonial Railway in district No. 10, Dartmouth to Windsor.
17827	94	22	Montreal Steel Works, Ltd	Install mechanical interlocking switch and signal plant with electric lock on machine at Buctouche Junc-
17869	Aug.	7	George II, Evans	tion, on line of Intercolonial Railway. Supply, &c., one 10-ton, 3 motor electric travelling crane in Intercolonial Railway shops at Rivière du
17874	64	10	W. C. Wetmore & Company	Loup, Que. Install hot water heating apparatus in station building at Maccan, N.S.
17917 17918	Sept.	1	Hiram G. V. Farrar	Electric wiring freight shed at Campbellton, N.B.
17919 17920	"	1	Goulette & Laviolette	Construct and erect freight shed at Loggieville, N.B. Supply and install necessary equipment in Intercolonial Railway oil houses at Kempt Road yards, Halifax.
17921	14	1,.	Fred Forrester	N.S. Erect, &c., combined baggage, coal and oil building at Hampton, N.B.
17922	ш			Erect, &c., combined haggage, coal and oil building at
$\frac{17923}{17924}$	16	1	T. A. Barnhill & Company. C. E. Fish Frank W. Wilson	Montmagny, Que. Erect rest house at Point Tupper. Extension to water system at Harcourt, N.S.
17925	66	1	Frank W. Wilson	Extension of water system at Marcourt, N.B. Deliver one (1) haggage car.
17945 17955	40	22	Preston Uar & Coach Co., Ltd	Extension to water works at St. Charles Junction and
17956 17963	Oct.	18	Cloutier & GaudreauZenon Ouellet	Little Metis, Que. Erect comhined station, &c., at Carmel, Que. Erect addition to existing freight shed and baggage
17965	44		Zenon Quellet	Construct combined station and dwelling combined
17986	64	11	Chappel Bros. & Co., Ltd	freight and haggage huilding and a combined coal oil and privy huilding at Daveluyville, Que, Erect addition to freight shed on wharf at North Sydney, C.B.
17999	46	28	Frank W. Wilson	Erect 50,000 gallon water tanks at Windsor Junction.
18009	P4			N.S., Rogersville and Beaver Brook, N.B., and Cedar Hall, Que. Addition to freight office and installation of hot water
-	1	,		heating in freight shed at New Glasgow,

CONTRACTS entered into during the Fiscal Year ended March 31, 1910—Continued.

#### INTERCOLONIAL RAILWAY.

		ure.	Contractors.	Description.
	190	9.		
18025 18026	Nov.	8 2	H. Boulay et Cie Dumont & McLean	Erect freight shed, &c., at Lac au Saumon, Que. Construct addition of six (6) stalls to brick engine house at Rivière du Loup, Que.
18033	44	8	Corporation of the Town of Stellar-	
18041	44	17	Provincial Steel Company	For the rerolling of used rails weighing 110 lbs. per yard His Majesty furnishing the used rails.
18042	Nov.	17	H. Boulay & Cie	Ercct and complete extension to existing freight shed at St. Alexis, Que.
18052 18070 18071	Dec.	7	Rhodes Curry & Company, Ltd	Erect car repair shop at St. John, N.B. Delivery of 5,500, 33 in. car wheels. Install toilet accommodation and plumbing in station
18085 18104	"	14 27	Rhodes, Curry & Co	at Dorchester, N.B. Deliver six (6) 80,000 lbs. box-baggage cars. Construct and complete 6 in, terra cotta drain for station building at Dorchester, N.B.
1	191	0.		
18112	Jan.	7	Canadian Locomotive Company, Limited.	10 simple consolidation locomotives.
18119	"	10	Henry Swim	Erect, &c., combined station and dwelling at Cross Creek station, county of Northumberland, N.B.
18183	и			Supply and install electric power plant in Tower bouse
18210	Feb.	15	Lacbance & Fils	Addition to freight shed and enlarging of office at Rivière du Loup, Que.
18211	"	15	Montreal Locomotive Works, Limit-	Deliver one (1) 'Pacific Type' passenger locomotive.
18239	Oct.	8		For repeating of messages at Quebec.
18240	March	7	Laura M. McManus	Extension of water service pipe line and construction of dam at Cedar Hall, Que.
18250	44		Limited	Erect combined passenger station and freight room
18253 18254 18271	Feb.	19	Louis E. Couture Laura M. McManus	at Renous, N.B. Construction of siding at Lévis, Que. Erect fencing from Campbellton, &c. Supply water at Richmond street station, Deep Water Terminus and Willow Park yards, all in Halifax.

#### PRINCE EDWARD ISLAND RAILWAY.

	190	9.		
17624	April	1	John M. Clark	Erect extension to railway wharf at Souris.
	190	8.		
17675*	Aug.	15	E. A. Wallberg	Erection of power house and a chimney at Charlotte- town, P.E.I.
	190	9.		
17826	July	23	Tbomas Campbell	Erect extension to railway wharf at Charlottetown, P.E.I.
17832 17926	" Cont	26	J. M. Clark	Erect freight shed on wharf at Charlottetown, P.E.I. Construct branch line of railway from Harmony sta-
17944	sept.			tion to Elmira.
				foundation, &c., at Charlottetown, P.E.I.
18043	Nov.	17	Canada Foundry Co., Ltd	Deliver one (1) 55-foot steel through turntable at Charlottetown, P.E.I.

#### QUEBEC BRIDGE.

	191	0.		
18113	Jan.	10	M. P. and J. T. Davis Substructure of Quebec bridge.	

<sup>\*</sup> Too late for last year's report.

CONTRACTS entered into during the Fiscal Year ended March 31, 1910—Continued.

# BEAUHARNOIS CANAL.

No. of Contract.	Date of Signature.	Contractors.	Description.
17981	1909. Oct. 5	Alfred Cossette	Crushed stone for macadamizing portion of public road on Hungry Bay Dyke, county of Beauhar- nois, Que.
		CHAMBLY	CANAL.
18101	1909. Dec. 27	Phœnix Bridge and Iron Works, Limited.	Structural steel work for new power house at Chambly Canton, Que.
		CORNWALL	CANAL.
18038 18242	1910.	Gordon R. Phillips	Extension of concrete wall across wash-out in south bank of canal at lock No. 18. Deliver 1,000 barrels of cement.
	· · · · · · · · · · · · · · · · · · ·	FARRAN'S	POINT.
18248	1910. March 15.	Canada Cement Company, Limited .	Deliver 3,350 barrels of cement for Ontario St. Lawrence Canals.
		GALOPS	CANAL.
17868	1909. Aug. 6	McCoy and Wilford	Removal of old wooden piers and bridges above and below lock 27 of canal, and rebuild same with concrete and steel.
_		LACHINE	CANAL.
17766 17825 18247 18280	1910. Mar. 15	Canada Cement Company, Limited.	Furnish tug for towing of vessels through lock No. 2. Supply and erect roller lift bridge over canal.  Deliver 34,750 barrels of cement. Construct concrete walls to improve the approach to the St. Gabriel locks.
		RIDEAU	CANAL.
	1909.	1	
17706 17822 17824 18023	July 20.  " 22.  Nov. 4.  1910.	Limited	at Kingston Mills, Ont.  Erect highway bridge at Kingston Mills lock station.  To lay rectangular steel plate covering required on timber retaining dam at Black Rapids lock station.

CONTRACTS entered into during the Fiscal Year ended March 31, 1910—Continued.

# SAULT STE. MARIE CANAL.

			SAUDI SIE, MAR	IE CANAL.
No. of Con- tract.	Date of Signati		Contractors.	Description.
17957 17992 17998	Oct. 1 1910	18 16 23	J. J. Collins	Rebuild north pier of upper entrance to canal. Construct 7 pairs of gates for lift lock of canal. Deepen and widen channel way of upper entrance of canal.  Deliver 250 barrels of cement.
	l .			1
			SOULANGE	S CANAL.
-	1909			
17736	June	3	The Hall Engineering Works	Construct, &c., 2 winches on deck of gate lifter.
		`	TRENT (	DANAL.
	1909			
17703	May	7	Herbert B. Collier	Deliver 96 operating machines, 96 sets of anchorage fittings and 96 pivots for lock gates.
17938			ed.	Deliver metal-works for lock gates of Rosedale and Lindsay locks.
18086	Dec. 1	14	Bishop & Buchanan	Concrete metal-works for lock gates of Rosedale and Lindsay locks.
	1910	•	•	
18245	Mar. 1	5	Canada Cement Company, Limited.	Deliver 102,000 harrels of cement.
			WELLAND	CANAL.
	1909.			
17616 17746	April June	1	David Walker and Wm. Walker	Repair foundation at lock No. 2. Placing of stone protection along certain portions of
				summit level of canal, between Thorold and Port Colborne, Ont.
17959	Sept. 2	3	Hamilton Bridge Works Company, Limited.	Erection of steel highway bridge over raceway near old lock No. 2 of Old Welland canal, St. Cath-
	1910.			arines, Ont.
18118 18246	Jan. 1 Mar. 1	0 5	M. Beatty & Sons, Limited Canada Cement Company, Limited.	Construct steel pontoon gate lifter. Deliver 800 harrels of cement.

H. F. ALWARD,

Departmental Solicitor.

# Water Power and other Public Property leased by the Department of

INTERCOLONIAL

No. of Lease.	Da o Signa	Ĺ	Lessec,	Lands or Rights demised.
	190	)9,		
17672	April		missioners.	Re granting permission to cross Intercolonial Railway by Transcontinental Railway at mileage 4.65, county of
17754 17801 17838	June July	9 30 23	Emile Paturel	Lévis, Que  Land at Point du Chene, N.B.  Land at Glen Emma, Bonaventure county, Que.  Privilege to lay, &c., 1 inch iron pipe across lands and under tracks of railway about 2 miles north of Dur-
17870 17927	Aug. Sept.		h a ma	ham station.  Land at Aulac, N.B.  Land at Shediac station, N.B.
$\frac{17932}{17934}$	69	10 1	Louison Lumber Co., Ltd E. A. Goodwiu	Land at Nashes Creek, Restigouche county, N.B Privilege to lay, &c., a 14-in. gas pipe along railway lands at Moncton, N.B. Land on Dalhousie St., Campbellton, N.B Priviledge to lay, &c., 8-in, terra cotta sewer by eaross
17935 17946	4	$\frac{10}{22}$ .	Angus McLellan	Land on Dalhousie St., Campbellton, N.B Priviledge to lay, &c., S-in, terra cotta sewer pipe across
17967 17988	Oct.	29 9	Ronald Chisholm	lands and tracks of railway at Dartmouth, N.S Land at Yankee Grant, N.B The right, &c., to lay, &c., 6-in, terra cotta sewer pipe across Intercolonial Railway right of way at Camp- bellton, N.B
17989	5.5	11	S. H. Dimock	To erect, &c., telephone line over and across Intercolonial Railway right of way about 3 miles east of Camp- bellton, N.B
18002	44	23	Transcontinental Railway Commissioners.	Right and privilege to lay 6 in. cast iron water pipe across Intercolonial Railway right of way at McGivney's Junction, N.B Privilege to lay and maintain 1 in. water pipe across lands
18004	77	23	James Jocelyn	Privilege to lay and maintain 1 in. water pipe across lands and under tracks of the Intercolonial Railway at
18012 18027 18031	Nov.			and under tracks of the Intercolonial Railway at Antigonish, N.S.  Land at Assametquaghan, Que.  Land at North Sydney, C.B., N.S.  Laud at Fraserville, Que.
18046 18056	77	17 23	Wilfred Irvine	Land at Assametquaghan, county of Bonaventure, Que Two parcels of railway land at Underhill, county of North- umberland, N.B Land at Rivière du Loup, county of Temiscouata, Que
18063 18073 18074	Dec.	26 $1$ $24$	Ernest Charette	umberland, N.B. Land at Rivière du Loup, county of Temiscouata, Que. Lay 6 in, water pipe at New Glasgow, N.S. Land at Windsor Junction, N.S. Land at Moneton, N.B. Land at Falleigh Statiou, county of Colchester, N.S. Land at Falleigh Statiou, county of Colchester, N.S. Land at Sydney, N.S. Privilege to pass and repass over strip of land on Campbell Road, city and county of Halifax, N.S. Land and right of way over 1006 source feet of land on
18083	Dec.	14	Jas. D. LeBlanc.	Land at Moncton, N.B
18084 18089 18099	u	18 . 9 .	The MacKay Mining Co., Ltd Imperial Oil Co., Ltd	Land at angle N.S Privilege to pass and repass over strip of land on Camp-
18100	Sept.			
*18102	Dec.	27	Spence McLean	Campbell Road, city and county of Halifax, N.S Land on west side of Stanley St., St. John, N.B.; and sale of dwelling house thereon
	19	10.		
18116	Jan.	$\frac{7}{22}$	R. W. Scribner	Land at Anagance, Kings county, N.B
18173 18174	"	22 .	Blaise Vaillancourt	Land at St. Fabien, Rimouski
18175 18176	16	22 22		Land at Anagance, Kings county, S.B., Land at St. Fabien, Rimouski. Land at St. Fabien, Rimouski. Land at St. Fabien, Rimouski. The right, &c., to lay 1 in. galvanized iron water pipe across railway right of way, about one-half mile west of St. Simon, county of Rimouski, Que.
18177 18178	66	22 ·		Land at St. Fabien, county of Rimouski, Que
18179	11	22	Theophile Michaud	Land at St. Fabien, county of Rimouski, Que.  Land at St. Fabien, county of Rimouski, Que.  Land at St. Fabien, county of Rimouski, Que.
18180 18184	"	22 · 22 ·	Joseph Michaud	Land at St. Fabien, county of Rimouski, Que. Privilege to lay, &c., 18 in, sewer pipe under tracks of rail- way on line of Cottage St

<sup>\*</sup> Price of house \$450.

Railways and Canals during the Fiscal Year ended March 31, 1910. RAILWAY.

			Con	nmenc			TERM	s of 1	Рачме	NT.		
Area.	Amount of Water Power.	Term.	ment of Term.			Annual Re	Annual Rental.		ue ch ar.	First Instalment Due.		ent
						\$	ets.		1			
1,667½ sq. ft 547 sq. ft	· · · · · · · · · · · · · · · · · · ·	During pleasure.	April May Jan.	1, 1 1, 1 1, 1	909 <b>.</b> 909. 909.		1 00 1 00 1 00	April May Jan.	1 1	April May Jan.	1,	1909 1909 1909
5,000 sq. ft 6,824 sq. ft		44	May Dec. Nov.	1, 1 1, 1 1,	909. 908. 1906		1 00 2 00 5 00	May Dec. Nov.	1 1 1	May Dec. Nov.	1.	1909 1908 1906
1,210 sq. ft		44	Feb.	1, 19			1 00	Feb.	1	Feb	1,	1909
2.07 acres			July Aug.	$\frac{1,19}{1,1}$	09 909. <sub> </sub>		$\begin{array}{ccc} 1 & 00 \\ 0 & 00 \end{array}$	July Aug.		July Aug.	1,	$\frac{1909}{1909}$
465 sq. ft			July	1, 1	909. 909.		1 00 1 00	July	1 1	July	1, 1,	1909 1909
			Sept.	1, 1	009.		1 00	Sept.	1	Sept.	1,	1909
• • • • • • • • • • • • • • • • • • • •		46	и	1, 1	909.		1 00	44	1	44	1,	1909
• • • • • • • • • • • • • • • • • • • •		44	и	1, 19	909.		1 00	"	1	64	1,	1909
10,000 sq. ft 0.1891 acre 903 sq ft		64	July	1, 19 1, 19 1, 19 1, 19	009. 909.		1 00 1 00 1 00 1 00	July July	1 1 1	July "	1,	1909 1909 1909 , 1909
0.22 acre			Sept.	1, 1	909.		1 00	Sept.	1	Sept.	1,	1909
7,925 sq. ft 3,893 sq. ft 0.22 acre 120 sq. ft 6,409 sq. ft 4,440 sq. ft		44	Oct. Nov. Oct. Nov.	1, 19 1, 19 1, 19 1, 19 1, 19	909. 909. 909.		1 00 4 00 1 00 1 00 1 00 1 00	Oct. Nov. Oct. Nov.	1	Oct. Nov. Oct. Nov.	1, 1, 1,	1909 1909 1909 1909 1909
			44	1, 1	009.		5 00	14	1	66	i,	1909
		21 yrs., renewable	Jan.	1, 1			1 00	Jan.		Jan.		1909
2,960 sq. ft		During pleasure	Nov.	1, 19			2 00 5 00	Nov.	1	Nov.		1909 1909
							3 00	Trov.	1	}		
750 sq. ft		44	Dec. Nov.	1, 19 1, 19 1, 19 1, 19	909. 909.		1 00 1 00 1 00 1 00	Dec. Nov.	1 1 1	Dec. Nov.	1,	1909 1909 1909
0,116 acre. 0,135 acre. 0,007 acre. 0,054 acre.		44	44 44 44	1, 19 1, 19 1, 19 1, 19	)09. )09. )09.		1 00 1 00 1 00 1 00	66 66 66 66	1 1 1	44	1, 1, 1,	1909 1909 1909 1909
			July	1, 1			1 00		1	July	,	1909

<sup>\*</sup> Cancelled.

# WATER POWER and other Public Property leased by the Department of

### INTERCOLONIAL

No. of Lease.	Da o Signa	f	Lessee.	Lands or Rights demised.
	191	10.		
18186	Jan.	25	Imperial Oil Company	Privilege to lay, &c., 9 wrought iron pipes across railway right of way at Fairview, N.S
18212 18213 18214 18241	Feb.	15 15	Trustees Y.M.C.A. of Campbellton. George St. Pierre & Co Sterling L. Stockton	Land at Campbellton, N.B Land at Rivière du Loup, Temiscouata county, Que Land at Petitcodiac, N.B. Privilege to lay, &c., 2-12 in. sewer pipes, at Ferry Slip Crossing, Dartmouth, N.S.
18255	и	18	Corporation of the City of Sydney.	Right to lay, &c., 20 in. salt glazed vitrified clay sewage pipe over railway right of way at Sydney, C.B
18256 18273	44		Emile Paturel The Swedish-Canadian Lumber	Land at Point du Chêne. Westmorland county, N.B Land at Kent Junction, N.B.
18274	и	30	Co., Ltd. J. H. Stewart	Land at Antigonish, N.S.

#### PRINCE EDWARD

	190	09.		
18005	Oct.	20	J. T. Arbing	Land in Souris, county of Kings, P.E.I.  Land in lot No. 67, Queen's county, P.E.I.  Land Lot No. 1, county of Prince, P.E.I.

### BEAUHARNOIS

18078	190 Dec.	 Valleyfield E	Electric Co.,	Ltd	Valle	eyfield, Qu	ie., and	surplus v	Beauharnoi vater from lake, &c	River St.
					ł					

#### CORNWALL

	190	9.										
17982 17983	Oct.	7	Montreal and Richelieu and	Cornwall Ontario	Nav. Co Nav. Co	Land Land	on south on south	side of side of	Water Water	street, street,	Cornwall, Cornwall,	Ont Ont

### GALOPS

	190	9.	4	
	June	17	Customs Department	Certain buildings at Old Lock No. 26, Cardinal, Ont
17785			and Jas. W. Leacy.	Two parcels of canal reserve, village of Cardinal, town- ship of Edwardsburg, county Grenville, Ont
17933	Sept.	1	George Robinson	Land and land covered with water on north side of public highway on west half lot 30, concession 1, township
				of Matilda, county of Dundas, Ont
17947	64	22	Mahlon F. Beach	Privil ge to erect, &c., electric transmission line at the village of Iroquois.

Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

RAII	WAY	ĭ—Conci	uded.
------	-----	---------	-------

	Amount		Commence- ment of Term.			TERMS OF PAYMENT.						
Area.	Amount of Water Power.	Term.				Annual Rental.		Due each Year.		Ins	First talme Due.	ent
						\$	ets					
0·29 acres 5·540 sq. ft 1,800 sq. ft		During pleasure 21 yrs., renewable During pleasure	May Oct. July	1, 1, 1,	1909. 1909. 1909. 1909.	10	1 00 0 00 5 00 0 00	May Oct. July	1	May Oct. July	1,	190 190 190 190
		64	Dec.		1909.		00	Dec.		Dec.		190
3,197 sq. ft 3, 015 sq. ft			May Jan.	Ι,	1909. 1910. 1910.		00 1 00 5 00	May Jan.	1	May Jan.	1, 1, 1.	190 191 191
13,100 sq. ft			Oct.		1910.		2 50	Oct.		Oct.		1909
ISLAND RAII	LWAY.	ı	1					1	1			
1,800 sq. ft 270 sq. ft 1,200 sq. ft		During pleasure	Sept. July Sept.	1, 1, 1,	1904. 1909. 1909.	1	. 00	Sept. July Sept.	1 1 1	Sept. July Sept.	1, 1, 1,	190- 1909 1909
CANAL.												
2,700 sq. ft	135 h.p	9 years	Jan.	1,	1910.	250	00	Jan. &	July	Jan.	1,	1910
CANAL.												
1,980 sq. ft 980 sq. ft		10 years	Aug.	1, 1,	1909. 1909.	18 10	5 00 00	Aug.	1	Aug.	1,	1909 1909
CANAL.					_							
		During pleasure	June "		1909.		00	June "		June "		1909
12		• •			1909.		00		1			1909
1 · 43 acres			July		1909.	1	. 00	July	1	July	1	1909

# WATER POWER and other Public Property leased by the Department of

LACHINE

No. of Lease.	Dą or Signa	f	Lessee.	Lands on Rights demised.
	190	99.		
17634	April	13	Ottawa Forwarding Co., Ltd	Space in flour shed No. 1 between flour basins Nos. 3
17654	66	14	Montreal Water and Power Co	and 4. Privilege to lay, &c., 14 in. cast iron pipe across land
17696	44	28.	Philomene Decarie	and under canal in St. Henri. Privilege to lay, &c., 1 in. water pipe from canal to lot 1011, Lachine, and draw water
17697	May	3.,	The Davies, Limited	Privilege to lay, &c., S in. iron water pipe from canal at Wellington basin, St. Ann's ward, Montreal.
17698 17699	April May	28	Mcssrs, Latour & Dupuis	Canal reserve on south side of canal, above Côte St. Paul
17714	и	21	Dominion Guarantee Co., Ltd	bridge, Montreal, P.Q Privilege to lay, &c., 3 in. iron conduit under canal west
17755	June	9	Parish Priest, parish of Holy An-	of Seigneurs street bridge, &c Land forming south bank of old abandoned entrance to
17784	May	1	gels of Lachine. Canadian Pacific Railway Co	canal. Land on south side of canal, town of St. Paul, parish of Montreal, Que.
17818	July	5	Jno. H. Hutchison	Privilege to erect, &c., overhead travelling cranc on canal lands in St. Henri, Montreal
17820	June	30.,	Pariseau Freres	Land between St. Gabriel basins 2 and 3, St. Ann's Ward, Montreal.
17834	July	21	Farquhar Robertson	Part of northeast wharf, St. Gabriel basin, No. 3, St. Ann's ward, Montreal
17835 17837	July July	21 21	Merchants Cotton Co L. Monette and H. Cardinal	Land on north side of canal in town of St. Henri, Montreal.
17839	July	22	Capt. Zephirin Leroux	parish of Montreal, Que
17871	Aug.	3	Montreal Street Ry. Co	thereon. Privilege to lay, &c., railway siding on north side of canal between Wellington street bridge and Seminary st
17873	44	3	Montreal Warehousing Co	Wharf lot on west side of Flour basin No. 4, St. Ann's ward, Montreal.
17876	"	4	Grand Trunk Ry. Co. of Canada	Privilege to maintain, &c., railway siding on north bank of canal from main track opposite Canada Car Com- pany's works at Montreal, west
17878	a	10	F. E. Hall & Co	Privilege to erect and maintain two-ton derrick on north west wall of Flour basin No. 4
17936	и	18	Montreal Rolling Mills Company.	Two parcels of land on north bank of canal in town of St. Henri, Montreal
17958	Sept.		Joseph Touzin	Wharf lot on northeast side of St. Gabriel basin No. 1,
17968	"		D. G. Loomis & Sons	Land on south side of canal, above Côte St. Paul bridge, parish of Montreal, Que
17987 17990 18013 18024	Oct. Sept. Oct. Nov.	25 22 4	Molsons Bank. Inland Navigation Co., Limited., Canadian Lake Transportation Co. Canadian Pacific Ry. Co	Land along north side of old basin No. 1.  Space in St. Gabriel shed No. 1, St. Gabriel basin No. 1.  Substituting for land leased to the Canadian Pacific Railway by lease dated August 15th, 1904, but required in connection with the widening of the canal at Côte
18029 18030 18040	66	9 9 8	Dominion Bridge Co., LtdAdolph GoldwaterJ. H. Redfern	St. Paul, certain other land in the vicinity; also granting permission to lessee to use bridge across entrance to basin.  Land on north side of canal, parish of Lachine, Que.  Land on St. Joseph street, town of Lachine, Que.  Land on south side of canal, St. Gabriel ward, Montreal,
18044	44	10	The Bishop Construction Company, Ltd.	Que
	19	10.		
18120 18172	Jan.	13 14	J. T. Steel & Co R. MacFarlane & Co., Ltd	Land at Boulevard St. Paul, Montreal, Que
18185 18251	Mar.	29 1	Canadian Oil Company, Ltd Montreal Stock yards Company	Wharf lots Nos. 1, 2 and 3, Montreal, Que
18289	и			Land on north side of canal in town of St. Henri, Montreal, and privilege to erect coal elevator thereon.
			* *	

SESSIONAL PAPER No. 20

Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

# CANAL.

	Amount		Con	mme	n.eo-	Т г	RM	s of ]	Payme	ENT.		
Area.	of Water Power.	Term.	ment of Term.			Annual Rental.		Due each Year.		First Instalment Duc.		
						\$	cts.					
12,355 sq. ft		During pleasure	May	1,	1909.	1,087	24	May	1	May	1,	1909
. <b></b>		44	Mar.	18,	1908.	5 (	00	Mar.	18	Mar.	18,	1908
		56	May	1,	1909.	10	00	Мау	1	May	1,	190
13,500 sq. ft		46	Ton-	1,	1909. 1909.	360		" Y	1	- "	1,	190
26,507			Jan			135 (		Jan.		Jan.		190
1,870 sq. ft.			May		1909. 1909.	225 (		May		May "		190
101,246 sq. ft		21 yrs. renewable.			1908.	10 (			1			190
7,000 sq. ft		During pleasure	u u		1909.	140		May	1	May		
,,000 34, 10, , , ,		a a	Mar.		1909 .			Mar.		Mar.		1909
2,500 sq. ft		"	June		1909.			June		June		1909
7,300 sq. ft		"	May		1909.			May		May		190
3,745 sq. ft	ļ	4	June		1909.			June		June		190
5,200 sq. ft		11	May		1909.			May		May		190
							00			, and	٠,	1909
325 sq. ft	• • • • • • • • • • • • • • • • • • • •	69	May	1,	1909.	13	00	May	1	Мау	1,	190
		44	July	1,	1909.	50	00	July	1	July	1,	190
7,275 sq. ft		"	May	1	, 1909	291	00	May	1	May	1,	190
		17 years	Jan.	1,	1908.	166	00	Jan.	1	Jan.	1	190
ſ	[]	During pleasure	June		1909.			June		Jun		190
$\begin{cases} 2,100 \text{ sq. ft.} \\ 2,400 \text{ sq. ft.} \end{cases}$			May	1,	1909.			May		May		190
2.375 sq. ft		"	July	1,	1909.	C		July		July		190
$\begin{cases} 2,200 \text{ sq. ft} \\ 1,750 \text{ sq. ft} \end{cases}$	}	"	July	1.	1909.	90	76	July		July		190
6,875 sq. ft 1,269 sq. ft 34,802 sq. ft	}	21 yrs. renewable.	Oct.	1,	1909.	12	69	Oct.	1	Oct.	1.	190
34,802 sq. it 22,000 sq. ft		During pleasure	July Oct.	1,	1908. 1909.	1,376 1,856	$\frac{08}{25}$	'July  Apl0	1	July	1,	190 190
			}									
								} 				
107,580 sq. ft 1,046 sq. ft		During pleasure	April	i,	1909.	645	54	April	i	April	··;	190
18,475 sq. ft		44	Oct.		1909.			Oct.	1	Oct.	1,	190
6,000 sq. ft		"	Oct.	1,	1909. 1909.	369 60	90	Nov. Oct.	1	Nov. Oct.	1,	190 190
1,935 sq. ft		44	May	1.	1909.	0	22	May	1	May	1	100
2.500 sq. ft 2.37 acres	1	44	Jan.	1,	1910.			Jan.		Jan.		190
			May	î,	1910.	2,300	00	May		May	1,	1910 1910
22,443 sq. ft		44	Mar.	1,	1909.	2,000	00	Mar-S	ep. 1.	Mar.	1,	1909
3,600 sq. ft			Mar.	1.	1910.	144	00	March	ı. 1	May	1,	1910

# WATER POWER and other Public Property leased by the Department of

### RIDEAU

No. of Lease.	Date of Signature.		Lessee.	Lands or Rights demised,
	1909	).		
17763	June 1	11	Ridcau Canoe Cluh, Limited	Submerged land, part of lot 'I', concession 'C,' town ship Nepean, county of Carleton, Ont.
17793 17819	June I	3	Henry K. Wampole & Co., Ltd Elgin-Cbaffey's Lock Telephone Company.	Lay and maintain water pipe in town of Perth, Ont. Privilege to lay, &c., telephone line on canal lands at Chaffey's lock station and to place telephone in lock house of each section.
18003	Oct. 2	23	E. P. McGrath	2.25 acres of land at Long island lock station on Nichol's island, part north half of lot No. 8, 1st concession
18054	Nov. 2	23	Canadian Northern Ontario Rail-	of the township of Nepean, county of Carleton, Ont. Land at south end of 'deep cut,' lot 'F.' concession 'D.' township of Nepean, county of Carleton

	190	9.		
17829	July	8	Jno. G. G Kerry	All surplus water at Stepben's mill site, dam 1, section 5, of canal and right of way
17872	Aug.	6	Crusbed Stone, Limited	Parts of lots 32 and 48, concession 8, township of Eldon, county of Victoria, Ont.
18094 18095 18096 18097	Dec. Dec	21	Henry Pierce. The Fenelon Falls Milling Co H. A. McIntosh. L. L. Arnold.	Land west of Colhorne street, Fenelon Falls, Ont. Land west of Colhorne street, Fenelon Falls, Ont. Land west of Colhorne street, Fenelon Falls, Ont. Land west of Colborne street, Fenelon Falls, Ont.
	191	10.		
	Jan. Jan.		Jas, Healey	Land in city of PeterhoroughLots 1 and 2, concession 12, township of Douro, county of Pcterborough, Ont
	190	9		
18115	Dec.	25	Town of Campbellford	Part lot 15, concession 6, township of Seymour, county of Northumberland, Ont., surplus water at point "X" on plan
1910.		.0.		
18117	Jan.	11	William Kean	Part of lot No. 6, concession 11, township of Thorold, county of Ontario, Ont
18275	Mar.	30	Edward Mayhew	Part of lot 49, concession 'A', township of Eldon, Victoria county, Ont.
18276	Mar	30	Wm. H. Gryles	Part of lot 49, concession 'A' townshp of Eldon, Victoia county, Ont

# WELLAND

	190	9.		*
17633	April	6	Reuben Hains	Parts lots Nos. 143 and 186, in township of Thorold, County of Welland, Ont
17636	44	7	Bell Telephone Company	Privilege to lay, &c., telephone cable across canal lands and under canal between 6tb and 7th concessions, township of Crowland.
17676	44	23	Niagara, St. Catbarines and Tor- onto Railway Company	Privilege to lay, &c., railway siding on canal lands, from
17737	June	3	Samuel Lambert	Parts lots 25 and 26, concession 'S,' township of Crow-
17836				land, county of Welland, Ont Land on west side of canal, between George and Haney streets, Humberstone, Ont
17877	Aug.	12	C. T. Ware	Part of lot 14, township of Thorold, county of Welland, Ont

SESSIONAL PAPER No. 20

Railways and Canals during the Fiscal Year ended March 31, 1910-Continued.

### CANAL.

		Amount		Con	2 770 01	nce-		TE	RM	s or P.	AYME	NT.	
Area.		of Water Power.	Term.	ment of Term.		Annual Rental.		1.	Due each Year.		First Instalment Due.		
						•	\$	(	ets.				
21,0	00 sq. ft		During pleasure	June "	1, 1,	1909. 1909.		1 1	00 00	June "	1	June	1, 1909 1, 1909
			66	64	1,	1909.		6	00	66	1	и	1, 1909
2.25	ac		66	Oct.	1,	1909.		5	00	Oct.	1	Oct.	1, 1909
0.57	'3 ac	,	99 years	Oct.	1,	1909.		50	00	u	1	ı	1, 1909

CANAL.

_			

	 21 years	Nov.	1,	1909.	2 00 per h.p.	Nov. 1	Nov. 1	, 1909
	 During pleasure	June	1,	1909.	10 00	June 1	June 1	, 1909
700 sq. ft 0·32 ac 0·35 ac 0·47 ac	 44	Jau. Jan. "	1.	1909. 1909. 1909. 1909.	50.00	Jan. 1	Jan. 1	1909 , 1909 , 1909 , 1909
1·11 ac 10·64 ac		Dec.				Dec. 1 Jan. 1	1	, 1909 , 1910
6·5 ac	 21 years	44	1,	1910.	1 00	" 1	" 1	, 1910
5,922 sq. ft	 During pleasure	u	1,	1910.	1 00	" 1	" 1	, 1910
4.91 ac	 • •	Mar.	1,	1910.	10 00	Mar. 1	Mar. 1	, 1910
1.65 ac	 •	**	1,	1910.	15 00	1	" 1	, 1910

#### CANAL.

10.25 5.06 }acres		During pleasure	April	1, 1909.	10 (	April	1 April	1, 1909
• • • • • • • • • • • • • • • • • • • •		£ £	July	1, 1909.	5 (	July	1July	1, 1909
	 		April	1, 1909.	50 (	00 April	1April	1, 1909
1·21 ac		16	и	1, 1909.	60 (	00 "	1 "	1, 1909
0.8 ac		16	July	1, 1909.	10 (	00 July	1 July	1, 1909
14.06 ac			June	1, 1909.	14 (	00 June	1June	1, 1909

# WATER POWER and other Public Property leased by the Department of

# WELLAND

No. of Lease.	Date of Signature.		Lessee.	Lands or Rights demised.
	1909.			
17937	Sept. 1	1	The Hedley Shaw Milling Company, Limited.	Land and land covered with water on Port Colborne har- bour, county of Welland, Ont
17976	Oct. 5	5	Joseph Battle	Part of lot 26, concession 6, township of Crowland, county
18010	" 29	9	Western Co-operative Grape Ship-	of Welland, Ont
18028	Nov. 8	3	Thorold Natural Gas Co., Limited.	county of Lincoln.  Right to lay, &c., 6 in. gas pipe line along Welland canal reserve land, in Dunnville, Ont.
18036	" 12	2	Canadian Portland Cement Com-	Land on west pier at Port Colborne, Ont., and privileges.
18055	" 20	)		Part of lot 25, concession 5, township of Crowland, county of Welland, Ont., and water power
18072	Dec. 7	7	W. J. Aikins	Land on south side of feeder, Dunnville, Ont., and 25 h.p. surplus water.
	1909.			
18076	Dec. 1	١	Ontario Power Co., Ltd	Privilege to lay, &c., cable across canal land and under canal, together with a short transmission line on canal lands near Thorold, Ont
18077	" 7	7	Ontario Hydro-Electric Power Commission.	Privilege to lay, &c., telephone cable across canal lands and under new and old canal at Allanburg, county of Welland, Ont.
18098	Nov. 1	١	Provincial Natural Gas and Fuel Co, Ltd.	Privilege to lay, &c., 4 in. gas pipe across reserve land and under canal at Welland, Ont
	1910.			
18252	Mar. 12	2	of Christ Church, village of	
18277	" 23	3	Marshville.	land, Ont The right and privilege to lay and maintain a 15 in. sewage pipe across the Welland canal feeder at Dunnville, county of Haldimand, Ont.

SESSIONAL PAPER No. 20

Railways and Canals during the Fiscal Year ended March 31, 1910—Continued..

CANAL-Concluded.

		Amount		Con	amer			TERM	ns of I	Paymi	ENT.		
Ar	rea.	of Water Power.	Term.	ment of Term.			Annual Rental.		eac	Due each Year.		First Instalment Due.	
				i			\$	e ts					
6·43 a	ıc		20 years	May	1,	1909.	1,0	00 00	May	1	May	1, 1909	
0 · 12 ac			During pleasure	Aug.	1,	1909.		25 00	Aug.	1	Aug.	1, 1909	
0·15 ac		44		Sept.	1,	1909.		10 00	Sept.	1	Sept.	1, 1909	
			"	Nov.	1,	1909.		10 00	Nov.	1	Nov.	1, 1909	
1 · 15 ac			21 yrs., renewable	June	1,	1909.	1	67 00	June	1	June	1, 1909	
0·13 ac		100 cu. ft. per second.	21 "	Nov.	1,	1909.	4	13 00	Nov.	1	Nov.	1, 1909	
•0•05 ac		25 h.p	During pleasure	Мау	1.	1909.	. 1	.00 00	May	1	Мау	1, 1909	
			During pleasure	Nov.	1.	1909.	1	0.00	Nov.	1	Nov	1. 1909	
			,		-,				2.0		2.00.	1, 1000	
		• • • • • • • • • • • •	"	Sept.	1,	1909.		5 00	Sept.	1	Sept.	1, 1909	
		• • • • • • • • • • • • • • • • • • • •	64	Nov.	1,	1909.		5 00	Nov.	1	Nov.	1, 1909	
			"	Jan.	1,	1910.		1 00	Jan.	1	Jan.	1, 1910	
			"	ee .	1,	1910.		5 00	"	1	N	1, 1910	

# Property leased to the Department of Railways and Canals by intercolonial

No. of Lease,	Date of Signature.	Lessor.	Lands or Rights demised,
17715 17966 18103	Sept. 27	Montreal Board of Trade  Town of Campbellton  Town of Amherst*	Rooms 6, 7, 8, 9 and 10 ground floor, building (Board of Trade), Montreal, Que.  To lay, &c., 6 in, water main along Sugar Loaf street, in Campbellton, N.B.  Permission to connect sewer pipe of Intercolonial Railway with those of the town at a point at the intersection of the centre lines of Crescent avenue and Station street.
			QUEBEC
17695	1909. May 4.	Quebec Board of Trade	The east half of the first floor of the Board of Trade building, Quebee
			TRENT
		Jno. Collins  Jno. Jos. English, Ernest F. Mason and the Randolph McDonald Co., Ltd.	Land in village of Hastings, county of Northumberland, Ont Certain tracks of land in village of Hastings, county of Northumberland, estimated at two or three-quarter acre, composed of park lots 2 and 3, for storage purposes re contract No. 17156.

<sup>\*</sup>Consideration certain work by the Intercolonial Railway.

SESSIONAL PAPER No. 20

various parties during the Fiscal Year ended March 31, 1910.

		Terms of Payment.						
Area.	Term.	Commence- ment of Term.	Annual Rental.	Due each year.	First Instalment due.			
			\$ ets.					
	3 years	May 1; 1909.	1,896 00	Quarterly	May 1, 1909			
465 sq. ft	During pleasure	July 1, 1909.	1 00	July 1	July 1, 1909			
	In perpetuity	Apr. 20, 1909.						
BRIDGE.	,							
	2 years	May 1, 1909.	600 00	May 1	May 1, 1909			
CANAL.	CANAL.							
	3 years	Mar. 1, 1909.	25 00	Mar. 1	Mar. 1, 1909			
	To March 31, 1910	Nov. 20, 1909.	1 00	Nov. 20	Nov. 20, 1909			

H. F. ALWARD,

Departmental Solicitor.

# PROPERTY CONVEYED to the Department of Railways and Canals and INTERCOLONIAL

**17897         Mar.         30.         M. MacDonald et ux.         Land at.           17915         Aug.         20.         Town of Drummondville.         Public road in north ward.           17943         June         11.         Jno. Morris et ux.         Land at.           *17961         Feb.         22.         James McNeil et ux.         Land at.           *17962         May         17.         Ida Woodworth.         Land at.           *17964         April         29.         Minnie S. King et vir.         Land at.           *17965         July         22.         Isaac Creigbton et ux.         Land an north suburb of.           *18065         "3.         Geo. H. Taylor, assignee, et al.         Land in north suburb of.           *18059         May         12.         Na Brown et vir.         Land at Afrieville, city of Halifax.           *18059         May         12.         Na Brown et vir.         Land at Afrieville, city of Halifax.           *18064         Jan.         31.         Jno. Greenaway.         Land on southwest side of Gottinger St., Halifax.           *18079         Oct.         12.         Alex. McKay et ux.         Lots 14, 21 and 23.           *18080         "14.         Alex. C. Hamilton et ux.         Land on C				
17896	of	of	Grantor.	Lot.
*17897   Mar. 30.   M. MacDonald ct ux.   Land at.   Land at.   17915   Aug. 20.   Town of Drummondville   Public road in north ward.   Land at.   La		1909.		
1908.   1908.   1908.   1909	*17897 17915 17943	Mar. 30 Aug. 20 June 11	M. MaeDonald et ux	Land at. Land at Public road in north ward. Land at Land at Land on Campbell road.
*17964 April 29. Minnie S. King et vir. Land at		May 17	James McNeil ct ux	Land atLand in north suburbs of
1909.   17970				
17969	*17964	April 29	Minnie S. King et vir	Land at
17970   "		1909.		
*18065	17970 18051 18059 18060	4 3	Con H Taylor assignee et al	Lend in north suburb of
1909.   18079   Oct. 12. Alex. McKay et ux.		1907.		
18079   Oct.   12   Alex   McKay et ux   Lots   14, 21 and   23	*18065	Jan. 31	Jno. Greenaway	Land on west side of Upper Water St
18080		1909.		
18080	18079	Oct 12	Alex McKay et ur	Lots 14, 21 and 23
1908.   1906.   1906.   1906.   1906.   1908.   Robt. A. Lowerison.				
*18111 Mar. 26. Isaie Laplante Part of lot 529  *18168 June 30 and Oct. 1  1908.  *18218 Mar. 11. Precille Blanchard. Part of cadastral lots 172 and 176  *18219 May 6. Ulric Belisle Parts of cadastral lots 172 and 176  *18220 General Alfred Dufresne General Info  *18221 General Alfred Dufresne General Info  *18222 General Alfred Dufresne General Info  *18223 General Alfred Dufresne General Info  *18224 Feb. 18 Edmond Simard General Info  *18225 Mar. 11. Dieudonne Vertefeuille General Info  *18226 July 7. David Cameron et ux. Land on north east side of Kempt road  *18226 Nov. 30. Jno. Fulton et ux. Land near Campbell road  *18259 July 31. Harry Lynds General Info  *18261 General	18090 18105		James White et ux.  Hannab Spurr.  Edwin E. D. Record et al.	Land on Campbell road. Land at Moneton. Land on north side of Mountain road.
*18168 June 30 and Oct. 1 1 1908.  *18218 Mar. 11. Precille Blanchard. Part of cadastral lots 172 and 176. Railway with water. Parts of cadastral lots 172 and 176. Parts of cadastral lot 167. Parts of cadastral lots 172 and 163. Parts of cadastral lots 172 and 163. Parts of cadastral lots 172 and 163. Parts of cadastral lots 172 and 164. Parts of cadastral lots 172 and 176. Parts of cad		1908.		
*18168 June 30 and Oct. 1   Robt. A. Lowerison.	*18111	Mar. 26	Isaie Laplante	Part of lot 529
*18218       Mar.       11.       Precille Blanchard.       Part of cadastral lots 172 and 176.         *18219       May       6.       Ulric Belisle.       Parts of cadastral lot 167.         *18220       6.       Samuel Langelier       " 179.         *18221       6.       Alfred Dufresne.       " 162 and 163.         *18222       6.       Philias Benoit.       " 165.         *18223       6.       Isaie Desmarais.       " " 130.         *18224       Feb. 18.       Edmond Simard.       " " 163.         *18225       Mar.       11.       Dieudonne Vertefeuille       " 168.         1909.       1909.         18226       July 7.       David Cameron et $ux$ Land on north east side of Kempt road.         18257       Aug. 17.       Ed. Clayton et al.       Land on north east side of Kempt road.         18258       Nov. 30.       Jno. Pulton et $ux$ Land at Truro.         18260       " 31.       Jno. C. McDonald.       "         18261       " 30.       Peter McLean.       "	*18168	$\left\{ \begin{array}{c} \text{June} & 30 \\ \text{and} \\ \text{Oct.} & 1 \end{array} \right\}$	Robt. A. Lowerison	Of certain rights and privileges for installation of a water system at Milton Mill Brook, to supply Intercolonial Railway with water
*18219 May 6. Utric Belisle Parts of cadastral lot 167.  *18220 " 6. Samuel Langelier " " 179 " 162 and 163 " 18222 " 6. Philias Benoit " 165 " 165 " 18223 " 6. Isaie Desmarais " " 130 " 130 " 18224 Feb. 18. Edmond Simard " " 163 " 163 " 168 " 18225 Mar. 11. Dieudonne Vertefeuille " " 168 " 168 " 1825 Aug. 17. Ed. Clayton et al Land on north east side of Kempt road 18257 Aug. 17. Ed. Clayton et al Land near Campbell road Land at Truro 18259 July 31. Harry Lynds " Land at Truro Land at Truro 18260 " 31. Jno. C. McDonald " " " 18261 " 30. Peter McLean " " " " " " " " " " " " " " " " "				
18226       July       7       David Cameron et ux.       Land on north east side of Kempt road.         18257       Aug.       17       Ed. Clayton et al.       Land near Campbell road.         18258       Nov.       30       Jno. Fulton et ux.       Land at Truro.         18259       July       31       Harry Lynds.       """         18260       "31       Jno. C. McDonald.       """         18261       "30       Peter McLean.       """	*18219 *18220 *18221 *18222 *18223 *18224	May 6 6 6 6 6 7 6 8 6 Mar. 11	Ulric Belisle Samuel Langelier Alfred Dufresne Philias Benoit Isaie Desmarnis Edmond Simurd.	Parts of cadastral lot 167
18257   Aug.   17   Ed. Clayton et al.	4000			
18201 30. Feter McLean	18257 18258 18259	Aug. 17 Nov. 30	Jno. Fulton et ux	Land near Campbell road Land at Truro
		" 30 Nov. 23	Peter McLean	

<sup>\*</sup>Too late for last year's report.

Letters Patent granted during the Fiscal Year ended March 31, 1910. RAILWAY.

***************************************				
District	County.	Area.	.Amount.	Remarks.
Durham North Sydney Drummondville Mulgrave Halifax Sydney Halifax		U.USI acre	\$ cts. 175 00 342 82 1,300 00 300 00 240 04 900 00 367 60	
Lakeview	et	0,105 acre	56 50	
Halifax	14 44 45 46 46 41 41	0.022 acre	93 99 100 00 125 39 150 00 394 37 300 00	
и	4	860 sq. ft	1,100 00	
North Sydney  Halifax Monoton	a	2,484 sq. ft 2,461 sq. ft 4,663 sq. ft 42,649.2 sq. ft 920 sq. ft 0.322 acres 3,795 sq. ft	671 37 1,100 00 82 80 2,000 00 150 00	
Mitchell	Nicolet, Quc	0.3 acre	50 00	
}	Sackville, N.B		1,100 00	
St. Rosalie.	44 44 44 44 44 44 44 44 44 44 44 44 44	0.09 acre	1,000 00 3,000 00 75 00 1,500 00 3,500 00 1,200 00 250 00 2,000 00	
Halifax Truro " " North Sidney and Sydney Mines.	Halifax, N.S.  Colchester, N.S.  " Cape Breton.	4,225 sq. ft	1,161 94 78 33 334 49 227 56 757 94 270 54 750 00	

# PROPERTY CONVEYED to the Department of Railways and Canals and Intercolonial

No. of Deed.	Date of Dece	_	Grantor.	Lot.
*18264	1908 Sept. 2	1	James S. Byron et al	Land at, and courses of water pipes through other lands.
*18265 *18266 *18267 *18268 *18269 *18270	May Dec. May June	6 16 14 14	Zacharie Belisle Irence Bilodeau et al. Mrs. M. Tanguay Hector Girard Henri Girard	Parts cadastral lot 166. Land in. Part cadastral lot 176. " 170.
	1909	9.		
			Geo. Aikenhead Clarencc Hay et ux	Land near Campbell road
	1906	3.		
*18301	Sept.	25	Eunice Smith et al	Land on west side of Upper Water St
	1909	Э.		
18302	Dec. 3	30	Onésime Poulin	Of privilege to take water for railway purposes from Lake Beaumont, situated between parishes of St. Charles and de Beaumont
18417	Nov.	13	Alphonse Lauzier	Part of lot 279, and privilege to lay water pipe.
18418	"	13	Etienne Couture	Right of entry in and upon lands and privilege to lay, &c., water pipe
	1905	5.		
*18436	Mar.	11	Mrs. J. F. Rioux	Part of lot 613
	1916	).		
18437 18438 18439	" "	29	James Adams et ux	Land at Land on Kempt Road. Land in north suburbs
	1909	9.		
18440 18441 18442 18443			Frank Stanfield et ux	Land at
	1910			
18444		1	Donald McDougal et ux	Land at Loggieville.
	1909			
18445			Alex, T. McCrae	Land at
				SOULANGES

	190	09.		
17899	May	25	Nerce Moreau	Parts lots 423 and 425
	l.			

<sup>\*</sup>Too late for last year's report.

Letters Patent granted during the Fiscal Year ended March 31, 1910—Continued.

RAILWAY-Continued.

District.	County.	Area.	Amount.	Remarks.
rt Et	44	5:000 sq ft 1.91 acres 5.83 arpent. 0.28 acre. 0,766 acres. 1.3 acre. 4,1 acres	\$ ets.  350 00 3,000 00 1,800 00 150 00 152 00 300 00 927 50	
Halifax Harcourt	Halifax, N.S	1,607 sq ft 0.1762 acre	151 05 400 00	
Haiifax, N.S	Halifax, N.S	2,553 sq. ft	3,896 96	
Hall).	BellechasseRimouski.		4,000 00 200 00	
66 64	56	10,000 sq. ft	50 00	s ·
Fraserville, Que			800 00	
Loggieville	Northumberland, N.B Halifax, N.S	0·29 acres 9,870 sq. ft 39,726 sq. ft	294 43 1,950 65 258 08	
Truro	Colchester, N.S	2·3 acre 1·05 acre 7·10 acre 1·15 acre	2,012 82 2,173 56 532 50 402 50	
Loggieville	Northumberland, N.B	$\begin{bmatrix} 0.37 \\ 0.28 \end{bmatrix}$ acre	276 28	. ••
Glengarry	Pictou, N.S	9,830 sq. ft	10 00	
CANAL.				
Posich of Ct. Invest. 1. C.		0.65	1	

			1
Parish of St. Joseph de Sou- langes.	Soulanges	$\left\{\begin{array}{c} 0\cdot65\\ 3\cdot02\\ 1\cdot18 \end{array}\right\}$ acres	2,424 79
	<u></u>		

# PROPERTY CONVEYED by the Department of Railways and Canals by

### TRENT

No. of Deed.	Da o Dec	f	Grantor.	Lot.
	190	9.		
17778	May	3	Corporation of the township of Seymour.	Part allowance for road between lots 5 and 6, concession 14, township of Seymour, county of Northumher-
17828 17898	June		John G. G. Kerry et ux	land, Ont. Parts of lot 13, concession 7
17942	Aug.	11		of Seymour, county of Northumberland
17972	June	14	Co. B. W. Powers and J. S. Dench	sion 12 Island in River Trent, opposite shore, between Radeski and Wall streets.
17971 *18016	Feh.	$\frac{24}{17}$	B. W. Powers and R. Powers et al.	South part of Lecaus island, town of.  Nos. 7 and 8, north side of Bridge street, village of Frankford.
*18017 18018 18019 18020 *18049	Mar. May June Aug. Mar.	13 22 12	Charles Gallagher et ux	No. 7, south side of Bridge street, village of Frankford. No. 8, south side of Bridge street, village of Frankford. No. 9, south side of Bridge street, village of Frankford. Parcels Nos. 3 and 4, Lecaus island. Parts of No. 4, &c., concession 5.
18061 18171 18227 18228 18231 18232 18262	June Oct. Dec. Sept. Dec. Aug.	20 30 20	Wm. Foster et ux Eleanor Jane Forsyth Tina Smith et al Jas. T. Howard et ux.	Part of lot 1, concession 2.  Lot No. 6, south side of Bridge street, Frankford Part of lot 4, concession 5 Part lots 1 and 2, concession 4. Part lot No. 2, concession 3. Part lot No. 5, concession 6 Lots 4, 5 and 6, north side of Bridge street, Frankford
	190	08.		
*18299	May		Corporation of town of Seymour	Parts of lots 12, 13 and 14, concession 7, and of lot 14, concessions 8 and 9, township of Seymour, county of Northumberland, Ont
18434	July	5	Town of Camphellford	Parcels Nos. 1, 6, 7, 8, 9, 10, 11, 12 and 13, parts lot 14, concession 9, lots 14 and 15, concession 8, and six islands in Trent river, township of Seymour, county of Northumherland.
18435	Nov.	9	Roht. Eli. Westcott	Part lot 10, township of Thorah, county of Victoria, Ont.

#### WELLAND

	190	10						
	190	,,,						
17779	June	12	Aaron Vandevere et ux					
17842	May	1	Daniel Philip Perlet et ux	Part	of lot 2	8, concession	2, township	of
17843	44		Emma Margaret Perlet		44	66	"	
17844	44		Ahram Frederick Perlet et ux		44	44	64	
17845	44		Sarah Josephine Schlehr et mar		44	4	и	
17846	44		Catharine Jones		44		640	
17847			Theodosia Suess et mar		4	"	"	
17848			Mary Williard et mar		14	44		
17849	- 1	21	Otto Louis Perlet et ux					3,
17850	July	12	Duncan Armstrong et ux					
			* B.		horne			
17900	July	29	Jane Peterson	Lot				village of Port Col-
	***				norne		• • • • • • • • • • •	
	191	10.						
18187	Jan.	8	Mary A. Pringle	Part	of lot N	To. 1, north s	ide of Sugar	Loaf street

<sup>\*</sup> Too late for last year's report.

SESSIONAL PAPER No. 20

Letters Patent during the Fiscal Year ended March 31, 1910—Continued.

### CANAL.

District.	County.	Area,	Amount.	Remarks.
			\$ cts.	
			0	
Seymour	Northumberland .	0.06 acre	1.00	
4	Northumberland	14.83 acres	1 00 1 00	
44	66	0.15 acre	100 00	
44		19.37 acres	1 00	And lease of surplu:
Trenton	Hastings		700 00	water.
4		4 acres	600 00	
Sydney	4		2,350 00	
и	44		1,075 00 1,500 00	
Trenton	44		\$00 00 250 00	
4	[ u		6,252 50	
Sydney	44	0.6 acre	50 00	
Sydney	66	0.16 acre 6.8 acres	50 00 225 00 1,700 00	
46 46	4	6·10 acres 13·89 acres	444 00	
44 *	44	7.6 acres	555 60 900 00 2,500 00	
Syd ney	Hastings	0.48 aere	2,500 00	
Seymour	Northumberland	6.55 acres	1 00	Exchange, see 18182.
44	66		1 00	I N- 10115 dated
***************************************	•••••		1 00	Lease No. 18115, dated Dec. 29, 1909, Tin perpetuity, of 6.5 acres of land and all
				perpetuity, of 6.5
				surplus water at dam at Middle Falls; to-
				gether with right of way for electrical
				way for electrical transmission line.
Thorah	Victoria	0.75 acre	100 00	
			•	
CANAL.				
Port Colborne	Welland, Ont	0.25 acres	2,000 00	
Humberstone		0.16 acres	275 00	
	"	0·16 acres	275 00 275 00	
4	"	0.16 acres	275 00 275 00 275 00	
4	4	0·16 acres 0·16 acres	275 00	
44	16	0.16 acres 0.16 acres	275 00 275 00	
Welland, Ont	и		350 00	
"				
• • • • • • • •			1,600 00	
Port Colborne	ч	0.75 acres	1,800 00	
			-1000 00	

# PROPERTY CONVEYED by the Department of Railways and Canals by Letters INTERCOLONIAL

No. of Deed.	Date of Deed.	Grantor.	Lot.
18034	1909. Oct. 19	The Imperial Oil Company, Ltd	Land on south shore of Bedford river
	1 -		TRENT
18182	1910. Jan. 10	The Corporation of the Town of Seymour.	Parts of lots 12, 13 and 14, concession 7, and lot 14, concession 8 and 9, township of Seymour, county of Northumberland.

Letters Patent during the Fiscal Year ended March 31, 1910—Continued. RAILWAY.

District.	County.	Area.	Amount.	Remarks.
Halifax	Halifax, N.S.	16,988 sq. ft	\$ cts.	Letters patent.
Seymour.	Northumberland	0·62 acre 4·46 acres 4·00 acres 0·84 acre 3·2 acres		Letters Patent Ex- change. See No. 18,299.

H. F. ALWARD,

Departmental Solicitor.

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910.

### INTERCOLONIAL RAILWAY.

No. of Re- lease.	Date of Release.	Grantor.	Description.	Amount.
	1000		_	
	1909.			\$ cts.
17973	Aug. 25	Amelia Groslet (widow F. Savary, employee Inter- eolonial Railway.	Of all claims arising out of the death of her late busband, Francois Savary.	250_00
18035	Oct. 25	A. F. Jardine	Injuries sustained at station of Derby Junction,	3,000 00
18110	Dec. 29	J. M. Slayter	N. B., whilst travelling as a passenger.  For all claims for damages, &c., that may at any time arise in exercise of privileges to travelling on I. C. Ry, engines for purpose of acquiring	200 00
17683	April 6	George Foster	knowledge of engine driving.  For damages to property consequent upon the erection of the Stanley street bridge, St. John, N.B.	200 00
	<u>,</u>	SO	ULANGES CANAL	
	1000			
1S0 <b>6</b> 7	1909. Oct. 20	Quebec Transportation and Forwarding Co., Ltd.	For damages to barge Ad, by striking of swing bridge against said barge.	55 00
		201,141444	bridge against old barger	<del></del>
		W	ELLAND CANAL	
	1909.			
17702	May S	Chas. E. Stewart	For damages consequent upon injuries to a borse	50 00
		Qt	UEBEC BRIDGE.	
	1910.			\$ cts.
18242	Mar. 12	Phœnix Bridge Company.	Releasing the company from all liability in connection with the collapse of the Quebec bridge.	100,000
			TRENT CANAL.	
	1909.			
17649	April 6	Jno. O'Kecfe et ux	Damages by water to lot 10, concession 4, and to lot 10, concession 5, township of Otonabee, county	200 00
17650	" 10	Robt. A. Robertson et ur	Daniages by water to part of west half of lot 5, concession 8, township of Monaghan, county of	50 00
17790	4 21	Annie Davis et al	Peterhorough, Ont.  Damages by water to lots 1, 2 and 3, concession 18, township of Harvey, county of Peterborough.	210 00
17701	" 16	Jas. Kiley et ux	Ont.  Damages by water to lot No. 3, block 'A' and part of lot 4, Lot 'A', Hiawatha, Indian reserva- tion, township of Otonabee, county of Peter-	135 00
17718			Release for damages by water to lot 6, concession 9, township of Otonabee, county of Peterborough,	460 00
17719	April 15	Wm. T. Smith et al	Ont.  Damages by water to east half of lot No. 2 and west half of lot No. 3, concession 5, township of Monagban, county of Northumberland, Ont.	180 00
17720	" 15	Edmund C. Foley et al	Damages by water to east half of lots 11 and 12, concession 4, township of Otonabee, county of Peterborough, Ont.	380 00
17722	May S	Jno. J. Lundy	Damages by water to lots 5 and 6, concession 11, township of Ennismore, county of Peterborough, Ont.	50 00

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

# TRENT CANAL-Continued.

No. of Re-lease.	of		Grantor.	Description.	Amoun	at.
	19	09.	í		\$	cts.
17725	April	27	Robt. J. Adamson et al	Damages by water to east half of lot 8, concession 9, township of Otonabce, county of Peterborough,	200	00
17727	u	9	Herbert A. Cairnduff, et al.	Ont.  Damages by water to north three-quarters of lot 20, concession 16, township of Harvey, county of	100	00
17728	44	28	Quintin Moore et ux	Peterborough, Ont. Damages by water to east half of lot 21, concession 17, township of Harvey, county of Peterborough,	200	00
17729	May	8	Raglan Richmond et al	Or.t.  Damages by water to part of lot 19 and west half lot 20, concession 15, township of Harvey, county	100	00
17730	"	13	Wm. P. Chase et ux	20, concession 15, township of Harvey, county of Peterborough, Ont. Damages by water to lot 'A' in the 16th concession of the township of Harvey, county of Peter-	175	00
17731	44	1	Jane Coward et al	borough, Ont.  Damages by water to part of lot 10, concession 11, and broken lots 7 and 8, concession 12, townsbip of Otonabee, county of Peterborough, Ont.	320	00
17732	April	9	Francis McElroy et ux	Damages by water to north half of lot No. 2 and east, balf of lot No. 3, in concession 5, and to lot 3, concession 6, township of Carden, county of	180	00
17733	64	10	Selena Jane McQuade et al.	Victoria, Ont.  Damages by water to south half of lot No. 9, southeast quarter lot 8, concession 5, and to northeast quarter of lot 8 and west balf of lot 9, in 4tb concession of township of Emily, county of Victoria Ont	400	00
17734	и	13	Wm. E. Burke et ux	Victoria, Ont.  Damages by water to lot No. 2, concession 4, townsbip of Carden, county of Victoria, Ont.	120	00
17753	"	27	Micbael F. Lynch et ux	Damages by water to east balt of lots Nos. 1 and 2 in the 2nd concession, and to lot No. 1 in the 3rd concession of the township of Aspbodel, county	1,050	00
17760	66	11	Jno. D. McGregor et al	of Peterborough, Ont Damages by water to west balf of lots 9 and 10, concession 7, township of Otonabee, county of	200	00
17761	May	20	Pbœbe Wedlock	Peterborough, Ont.  Damages by water to parts of broken lot No. 18, concession 2, township of South Monaghan,	20	00
17762	April	27	Adam A. Humphries $\epsilon t \ ux$ .	county of Northumberland, Ont. Damages by water to block 'A' in 1st concession, block 'A' and west part of lot No. 1, concession 2, township of Asphodel, county of Peter-	911	00
17769	46	30	James D. Byers	horough, Ont. Damages to south 50 acres of No. 35 in 9th concession	180	00
17770	и	30	D. Heaslip	of Hamilton, county of Northumberland, Ont. Damages to north balf lot No. 34, concession 9 of township of Hamilton, county of Northumber- land, Ont.	675	00
17771	44	29	H. Allen	Damages to west half lot 3, 14th concession of Harvey, county of Peterborough.	120	00
17774	May	26	Mary Ann Scriver et al	Damages to an island in the Trent River, north of lot No. 7, in the 11th concession, township of Percy, county of Northumberland, Ont.	36	00
17775	April	24	John Kerr et al	Damages to lots 18 and 19, concession 3, township of South Monaghan, county of Northumberland, Ont.	1,000	00
17776	"	2	Roland M. Waddell	Damages to north balf lot 3, and east half lot 2, concession 3½, township of South Monagban, county of Northumberland, Ont. Damages to south cast quarter lot 4, concession 2,	700	00
17777	May	i i		land Ont.	64	00
17782	ee	31	Jas. & Francis McCulloch	Damages to parts lots 2 and 3, concession 9, township of Hamilton, county of Northumberland, Ont.	304	00
17797	и	8	Alexander Thompson et at.	cession of the township of Harvey, county of	60	00
17798	June	19	Wm. J. Laing et al	Damages to east two-thirds of west balf of lot 5, concession 8, township of North Monaghan, county of Peterborough, Ont.  Damages to lots 32 and 33, concession 9, township of Hamilton, county of Northumberland, Ont.	100	00
17799	ee	19	Julia A. Kent	Damages to lots 32 and 33, concession 9, township of	240	00
17800	44	19	John C. Lypeb	Damages to west half of lot 3, concession 6, town- sbip of Asphodel, county of Peterhorough, Ont.	40	00

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

### TRENT CANAL-Continued.

No. of Re- lease.	Date of Signature.		Grantor.	Description.	Amount.
	1909.				\$ cts,
17S03	May	19	Garrett Galvin et ux	Damages by water to lot No. 1, concession 16, town- ship of Harvey, county of Peterborough, Ont.	400 00
17804	June	22	Wm. J. Isaac et ux	ship of Harvey, county of Peterborough, Ont. Damages by water to lot 1, concession 9, township	400 00
17805	June	23	Alexander E. Kennedy et ux	Damages by water to lot 1, concession 9, township of Hamilton, county of Northumberland, Ont. Damages by water to lot No. 23 in the 15th concession	75 00
				of the township of Smith, county of Peter- borough, Ont.	
17S06				Damages to west half of lot 11, concession 11, town- ship of Percy, county of Northumberland, Ont.	48 00
17807	4	19	Jno. Breckenbridge et ux	Damages to west half of lot 5, concession 3, township 1 of Asphodel, county of Peterborough, Ont. Damages to west balf of lot 6, concession 1, townthip of Asphodel county of Peterborough, Ont.	60 00
17808	64	23	Charles Fox et ux	Damages to west balf of lot 6, concession 1, town- thip of Asphodel county of Peterborough, Ont.	360 00
17809	44	23	Fowlds Co., Ltd	east of William St. and west of New St., Hast-	150 00
17851	May	S.,	William Graham et al	Damages to block 'A', township of South Burleigh.	300 00
17852	July	17	Wm. J. Johnston et ux	county of Peterborough, Ont.  Damages to lot 1 and part of north half lot 2, concession 1, township of Alnwick, county of Northumberland, Ont.	340 00
17853	"			Damages to north half lot 7, concession 3, and to lot 8, concession 4, township of Alnwick, county of Northumberland. Ont.	600 00
17854	June	30	Peter Nicholls et al	Damages to lot 27, concession 15, township of Smith, county of Peterborough, Ont.	90 00
17855	ul	e 26	James A. Fife et ux	Damages to lots 4 and 5, concession 5, township of Smith, county of Peterborough, Ont.	50 00
17856	66			Damages by water to north part of lot 35, concession 9, township of Hamilton, county of Northum-	400 00
17857	July	3	Robert Hill et al	Damages to part of lot 9, concession 9, township of	S0 00
17858	June	26	Nixon D. Timlon et al	Damages to part of lot 9, concession 9, township of Harvey, county of Peterborough, Ont. Damages to lot 8, concession 3, township of Alnwick, county of Northumberland, Ont.	492 00
17859	66	23	Alhert A. Hollingshead $\epsilon t$ al	Damages by water to part of lot No. 3, township of	65 00
17860	July	6	John James Howden $\epsilon t ux$ .	Damages to lots 11 and 12, concession 11, township of Otonshee county of Peterborough Out.	440 00
17861	June	30	John Dowler et al	Damages to south half lot 7, concession 3, township	216 00
17862	May	7	Margaret Burrison	county of Northumberiand, Ont. Damages by water to part of lot No. 3, township of Smith, county of Peterborough, Ont. Damages to lots 11 and 12, concession 11, township of Otonabee, county of Peterborough, Ont. Damages to south half lot 7, concession 3, township of Alnwick, county of Northumberalnd, Ont. Damage to south half of lot 9, concession 3, town- ship of Alnwick, county of Northumberland, Ont.	400 00
17863	June	30	David Conroy et ux	Damages by water to north half of lot No. 10, and to west 55 acres of south half of lot No. 10, con-	100 00
17864	May	29	Richard Corkery et al	cession 16, and lot 9, concession 17, township of Harvey, county of Peterborough, Ont. Damages to part of lot 19, concession 4 township of	150 00 ,
				South Monaghan, county of Northumberland, Ont.	
*17865				Damages to parts of lots 7 and 8, concession 9, town- ship of North Monaghan, county of Peter- borough, Ont.	800 00
17866	June	12	Louis Whitfield	Danages to part of lot 8, concession 8, and part of lot 10, concession 10, township of North Mona-	480 00
17867				Damages by water to part of lot 15, concession 3, township of South Monaghan, county of North-	80 00
17879	July	27	S. A. Northey et al	umberland, Ont. Damages to lot 26, concession 14, township of	60 00
17880	May	20	John P. Ayotte et al	Umberland, Ont.  Damages to lot 26, concession 14, township of Smith, county of Peterborough, Ont.  Damages to lots 20 and 21, concession 12, township of Smith, county of Peterborough, Ont.	250 00
17881	April				30 00
17882	June	26	John Weatherup et al	ship of Ennismore, county of Peterborough, Ont. Damages to west half of south 100 acres of lot No. 4, part of northwest half of lot 4, concession 2 of the township of Alnwick, county of Northum-	120 00
17883	July	24.	F. B. Herald et al.	berland, Ont.  Damages to lot 16 in the broken lot of the township of South Monaghan, county of Northumberland,	200 00
				Ont,	

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

No. of Re- lease.	0	ite f iture.	Grantor.	Description.	Amount.
	190	09,			\$ ets.
17884			Alfred E. Saunders $\epsilon t$ $al.$ .	Damages to part of lot No. 11 in the 11th concession	75 00
17885	June	10	John Carleton Read et al	of the township of North Monaghan, county of Peterborough, Ont.  Damages to lots Nos. 10 and 11 in the 12th concession of the township of Otonabee, in the county of	200 00
17886	April		John Riddell et al	of the township of Otonabee, in the county of Peterborough, Ont. Damages to west half of lot 13 in the 4th concession of the township of South Monaghan, in the county	500 00
17887	June	26 .	Albert T. Reid et al	of Northumberland, Ont.  Damages to lot 3 in the 3rd concession of the township of Burleigh, in the county of Peterborough,	120 00
17888	July	24	Alex. M. Laing	Ont. Damages to the northeast quarter of lot No. 2 in the Sth concession of the township of North Mona-	40 00
19889				ghan, in the county of Peterhorough, Ont.  Damages to the east half of lot No. 3, 17th concession, and to northwest part of lot No. 2 in the	50 00
17890	June	17	John C. Taylor et al	county of Peterborough, Ont.  Damages to the east half of lots 7 and 8 in the 10th concession of the township of Harvey, county of Peterborough, Ont.	620 00
17891	Aug.			Damages to north half of lot 17 in the 7th concession, and southcast part of lot 17 in the 8th concession of the township of Otonabee, county of	230 00
17892	June	30	Alexander Nicholls et al	Peterborough, Ont. Damages to islands 'C,' 'D' and 'E' in Buck-horn Luke, in the township of Harvey, county of	120 00
17893	Aug.	5	Robert II. Johnson	Peterhorough, Ont, Damages to the southwest quarter of lot No. 8 in the 5th concession, and the southeast quarter of lot No. 8 at West Pigeon River in the town-	120 00
17894	4	5	Thomas H. Fce et al	of lot No. 8, at West Pigeon River, in the town- ship of Emily, county of Victoria, Ont. Damages to the northwest quarter of lot No. 12 in the 6th concession, and northeast quarter of lot No. 12 in the 6th concession, and southeast quarter of lot No. 13 in the 7th concession of the	140 00
17895	June	25.	William O. Harvie et al	township of Emily, county of Victoria, Ont. Damages to lot No. 7 in the 4th concession, and part of lot No. 7 in the 3rd concession of the town- ship of Alnwick, county of Northumberland, Ont.	240 00
17901	Aug.	7	Peter Brady	Damages to the east half of lot No. 10 in the 11th concession of the township of Percy, county of	64 00
17902	14	12	John J. Lamb	Northumberland, Ont. Damages to park lot No. 3, in the village of Omenee, county of Victoria, Ont.	20 00
17903	44	6.,	George A. Balfour	Damages to park lot No. 2, in the village of Omenee, county of Victoria, Out.	20 00
17904	May	4	John S. Matchett et al	Damages to the east half of lot No. 7 and part of lot No. 8 in the 8th concession of the township of North Monaghan, county of Peterborough, Ont. Damages to lot No. 9 in the 11th concession of the	2,000 00
*17905	Feb.	1	Thomasina F. Orde et al	North Monaghan, county of Peterborough, Ont. Damages to lot No. 9 in the 11th concession of the township of Otonabee, county of Peterborough,	500 00
17906	Aug.			Ont. Damages to the northwest quarter of lot No. 9 in the 5th concession, and to the southeast half of lot No. 9 and northeast quarter of lot No. 9 in	220 00
17907	44	3	O. Stewart et al	lot No. 9, and northeast quarter of lot No. 9 in the northwest of Pigeon River, township of Emily, county of Victoria, Ont.  Damages to lots Nos. 12, 13, 14, 15 and 16, in the 18th concession, and lot No. 15 in the 17th concession, in the township of Otonabee, county of	1,200 00
17908	44		i i	Damages to part of lot No. 16, in the 7th concession of the township of Emily, county of Victoria,	30 00
17909	Aug.	11.	John McCarrell et ux	Ont.  Damages to the southeast quarter of lot No. 21 in the 4th concession of the township of Fmily,	130 00
17910	34	6	John Caroll et al.	Damages to part of lot No. 16 in the 7th concession	100 00
17911	ee	7	Samuel F. Fee et al	of the township of Emily, county of Victoria.  Damages to the north half of lot No. 12 in the 5th concession of the township of Emily, county of Victoria.	90 00

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

No. of Re- lease.	of		Grantor.	Description.	Amount.
	19	09.			\$ ets.
17912	May	3	Benjamin N. Harris et al	Damages to lot No. 20 in the 17th concession of the township of Harvey, county of Peterborough,	60 <b>0</b> 0
17913	June			Ont.  Damages to broken lot No. 6 and north part of lot  No. 8 in the 11th concession of the township of	136 00
17914	July			Percy, county of Northumberland, Ont.  Damages to the west half of lots Nos. 2 and 3 in the 3rd concession of the township of Asphodel,	380 00
17930	Aug.	11	Mosom Boyd Company	county of Peterborough, Ont.  Damages to lots Nos. 12 and 13 in the 19th concession of the township of Verulam, county of Vic-	280 00
17939	44	21	David F. Weir et al	toria, Ont.  Damages to the south half of lot No. 18 and the north half of lot No. 19, in the 8th concession of the township of Emily, county of Victoria.	100 00
17949	"	21	Wm. A. Nurse et al	Damages to the west half of lot No. 17 in the 2nd concession of the township of South Monaghan, county of Northumberland, Ont.	150 00
17950	44	19	James Kerr et al	Damages to lot No. 1 in the 10th concession of the	80 00
17951	46	31	Francis McGuire et ux	township of Verulam, county of Victoria Ont. Damages to the east half of lot No. 11 in the 11th concession of the township of Percy, county of	24 00
17952		30	Martha Chamhers	Damages to the east half of lot No. 20 and south- west half of lot No. 21 in the 4th concession of	300 00
17974	June	23	Joseph Harrington et al	Northumberland, Ont.  Damages to the east half of lot No. 20 and southwest half of lot No. 21 in the 4th concession of the township of Emily, county of Victoria, Ont. Damages to part of island 'A' and whole island 'B' in the township of Harvey, county of Peterhorough, Ont.	500 00
17975	Sept.			Damages to southeast quarter of lot No. 19, concession 4, township of Emily, county of Victoria,	40 00
17984	Aug.	16	Mary Atwell et al	Damages to south half of lot No. 11, concession 7,	48 00
17985	и	16	Thos. Atwell ct ux	Damages to south half of lot No. 11, concession 7, township of Emily, county of Victoria, Ont. Damages to southwest quarter of lot No. 12, concessions of the concession of th	32 00
17995	Sept.	18	Thomas Woods e ux	sion 7, township of Emily, county of Victoria, Ont. Damages to the north part of lot No. 11 and south half of lot No. 12, in the 6th concession of the township of Emily, county of Victoria, Ont.	180 00
17996	Aug.	9	I nomas J. Wallace et at	No. 10. in the 7th concession of the township of	70 00
17997	July			Otonabee, county of Peterborough, Ont. Damages to lot No. 31 and part of lot No. 35, in the 9th concession of the township of Hamilton,	120 00
18007	ee			county of Northumherland, Ont.  Damages to part of lots Nos. 28 and 29, in the 10th concession of the township of Hamilton, county	60 00
18014	-66	30	William G. Brown et al	of Northumberland, Ont.  Damages to part of lots 7 and 8 in the 8th concession of the township of Otonabec, county of Peterborough, Ont.	340 00
18015	46	31	John E. Curtis et al	Damages to lot No. 5, 3rd concession of the town- ship of Alnwick, county of Northumherland, Ont.	376 00
18048	Oct.	23	Wm. Wedlock ct al	Damages to part of lot 15 and part of lot 13 in the 6th concession of the township of Otonabee, county of Peterhorough, Ont.	140 00
18066				For damages to south quarter of lot No. 13 in the 7th concession of the township of Emily, county	40 00
18081	Nov.	- 1		of Victoria, Ont.  Damages to lot No. 2 and west half of lot No. 3 in the 5th concession of the township of Asphodel,	110 00
18188	July	- 1		county of Peterborough, Ont.  Damages to park lots 1 and 'N' in the village of Omemee, township of Emily, county of Victoria Ont.	20 00
18189	66	22	James Middleton	toria, Ont.  Damages to lot No. 21 in the 15th concession of the	25 00
18229	April	23	Austin Sherwin	township of Smith, county of Peterborough, Ont. Damages to 40 acres of land: east half and east part of west half of lot No. 3 in the 2nd concession of the township of Alnwick, county of North-	40 00
				For damages to part of north half of lot No. 19 in the 16th concession of the township of Harvey,	30 00
			,	county of Peterborough, Ont.	

20 - 7

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

No. of Re- lease.	Date of Signature.	Grantor.	Description.	Amount.
	1909.		٠	\$ cts
*18233	Feh. 16	Jas. R. Boate et al	For damages to north half of lot No. 21, in the 4th concession, and to lot No. 22 in the 5th concession of the township of Emily, county of	300 00
18234	May 22	Thos. G. Gihhs et ux	Victoria, Ont.  For damages to south half of lot 18 and to northeast quarter of lot No. 17 of the 16th concession of the township of Otonahee, county of Peter-	400 00
18235	Aug. 18	Sndy Matchett et ux	For damages to part of lot No. 19, concession 16, of the township of Otonahee, county of Peter-	255 00
18236	July 23	John McCauley et al	Damages to west part of lot No. 3 in the 5th concession of the township of South Burleigh,	128 00
18237			Damages to lots 8, 9 and 10, in the 7th concession of the township of Otonahee, county of Peter-	88 00
18238	July 10	John Riddell ot al	horough, Ont.  Damages to east half of lot No. 13, concession 4, and east half of lot No. 13, concession 5, of the township of South Monaghan, county of North-	200 00
18291	Dec. 4	Matthew McIlmoyle et ux	umherland, Ont. For damages hy water to south half of lot No. 19, concession 16, of the township of Harvey, county of Peterhorough, Ont., also part of west half of north half of said lot No. 19.	12 00
	1910.			
18450	Mar. 19	Bruce Savigny et ux	Damages to the east half of lot No. 15, 17th concession of the township of Otonahee, county of Peterhorough, Ont.	156 00
	1909.			
18451			Damages to island 'A' in the township of Harvey, county of Peterhorough, Ont.	133 00
18452			Damages to lot No. 20, in the 7th concession of the township of Alnwick, county of Northumherland Ont.	30 00
			Damages to lot No. 22 and to the north half of lot	100 00
18454	Sept. 23	Wm. F. Trude et al	Smith, county of Peterhorough, Ont. Damages to lots Nos. 24 and 25 in the 15th concession of the township of Smith, county of Peterhorough, Ont. Damages to lot No. 22 in the 7th concession of the	240 00
18455			township of Alnwick, county of Northumber-	40 00
18456	Nov. 13	Samuel Tate et al	Damages to lots Nos. 16 and 17 in the 14th concession, and the east half of lot No. 18 in the 15th concession of the township of Harvey, county of Peterhorough, Ont.	64 00
18457	June 26	Patrick Crowley et al	Damages to lot No. 3 in the 5th concession of the township of Asphodel, county of Peterhorough, Ont.	320 00
18458	Aug. 7	Patrick English	Damages to west half of lot No. 9 in the 11th concession of the township of Percy, county of Northumherland, Ont.	56 00
18460			Damages to west quarter of lot No. 4 in the 3rd con-	100 00
18461			Peterborough, Ont.  Damages to lot No. 6 in the 2nd concession of the township of Asphodel, county of Peterborough, Ont.	45 00
18462		Richard Byrnell et al	Damages to part of lot No. 23 in the 8th concession and part of lot No. 23 in the 9th concession of the township of Fenelon, county of Victoria, Ont.	40 00
18463	1910. Jan. 10	Elizabeth A. Fowler et al.	Damages to lots Nos. 15 and 16 in the 9th concession	16 00
J			of the township of Smith, county of Peter- horough, Ont.	10 00
	oo late for l:	ast year's report.		

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

No. of Re- lease.	Date of Signatur	e.	Grantor.	Description.	Amount.
			•		
	1909.				\$ cts.
18464 J	July -	٠	David J. Ball et al	Damages to west half of east half of lot No. 7 in the 10th concession of the township of Harvey, county of Peterborough, Ont.	12 00
18467 X	May 8		William S. Rutherford et al.	For damages by water to north three-quarters of lot No. 6 in the 3rd concession of the township of South Monaghan, county of Northumberland,	220 00
18470 J	July 17		Archibald Johnston	Unt. For damages by water to lots Nos 1 and 2 and to	200 00
18472				lot 'A,' in the 14th concession of the township of Harvey, county of Peterhorough, Ont. For damages by water to the east half of lot No. 3, in the 14th concession of the township of Harvey,	96 00
18473 J	July 27		Michael D. Wallace et ux	county of Peterborough, Ont.  For damages by water to the north half of the southwest quarter of lot No. 8; the north half of the southwest half of lot No. 9; the north half of the southeast quarter of lot No. 9, and the south half of the northwest quarter of lot No. 8, in the 7th concession of the township of Otonabee, county of Peterborough Ont.	144 00
18471 I				the 7th concession of the township of Otonabee, county of Peterborough, Ont.  Damages by water to part of lot No. 3, in the 4th concession of the township of South Burleigh, in the county of Peterborough, Ont.	120 00
	1910.			<b>,</b>	
18474 F	Feb. 2€	s	James Gilchrist Burnham et al.	Damages by water to northeast quarter of lot No. 11, and to parts of lots 12, 13 and 14, concession 6, township of Otonabee, county of Peterhorough, Ont.	424 00
	1909.	1		norodgii, Oitt.	
*18475 F	Feb. 5	; <sub> </sub>	Darius G. Hall et al	For damages by water to lot No. 2, in the 11th concession of the township of Harvey, county of	130 00
18476 N	May 15	; .! 	Isabel Eastwood et al	Peterborough, Ont.  Damages by water to island No. 78, in Stoney lake, in the township of Burleigh, in the county of Peterborough, Ont.	200 00
*18477 F	Feb. 10		George W. Bennett et al	For damages by water to island No. 56, of the town- ship of Peterborough, Ont.	150 00
18478	-			Damages by water to parts of broken lots 12 and	500 00
*18479 J	Jan. 26	3	William James Northey et ux.	Otonabee, county of Peterborough, Ont. Damages by water to lot No. 27, in the 14th concession of the township of Smith, in the county of Peterborough, Ont.	42 00
18480 J	June 21	1:.	Archibald Wilson et al	For damages by water to lot No. 2, in the 16th con- cession of the township of Harvey, county of Peterborough, Ont.	245 00
	1910.				
18481 H				For damages by water to the west half of lot No. 22, in the 16th concession of the township of Har-	300 00
18482 J	June 24	١	George Walford Hatton	vey, county of Peterborough, Ont.  For damages by water to part of lot No. 3, in the 7th concession, and to the east half of lot No. 2,	192 00
	1910.			Burleigh, in the county of Peterborough, Ont.	
18483 J	Jan. 29	), .	Martha Perrin $\epsilon t \ al$ ,	For damages by water to parts of lots Nos. 17 and 18, in the 2nd concession of the township of South Monaghan, county of Northumberland, Ont.	240 00
10101			D 1 + 1 - 0 - 1		800 0
18484 J	June 19			For damages by water to parts of west half of lot No. 8, and to parts of west half of lot No. 7, in 10th concession of the township of Otonabee, in the country of Potenburguel, Opt.	500-00
18485	May 22	2	James Carlington Foley et al	in the county of Peterborough, Ont. Damages by water to the west half of lot 11, and to the west half of lot No. 12, in the 4th con- cession of the township of Otonabee, county	320 00

<sup>\*</sup> Too late for last year's report.

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Continued.

		1	,	
No. of Re- lease.	Date of Signature.	Grantor.	Description.	Amount.
	1909.			\$ ots.
18486		John Moncrief et ux	Damages by water to the southwest quarter of lot No. 13, in the 1st concession of the township of South Monaghan, county of Northumber- land, Ont.	40 00
18487	)	John Brandon Beatty et al.	For damages by water to the south half of the west half of lot No. 25, in the 16th concession of the township of Harvey, county of Peterborough, Ont.	75 00
18488	Aug. 14.	William Mellmoyle et ux	Damages by water to part of lot 21, in the 15th con- cession of the township of Smith, county of Peterborough, Ont.	25 00
18489	]	William Beatty et al	Damages by water to the south quarter of lot No. 20, concession 16, of the township of Harvey, county of Peterhorough, Ont.	24 00
18490	Oct. 23	William Wedlock et al	Damages by water to part of lot No. 13, parts of the southwest quarter of lot No. 14, part of the east half of lot No. 14, and parts of lot 15, in the 6th concession of the township of Otonahee, county	600 00
*18491	Mar. 2	Bruce Johnston et al	of Peterhorough, Ont.  For damages hy water to part of lot No. 10, in the 10th concession of the township of North Monaghan, county of Peterborough, Ont.	720700
	1910.		1	
18492	Feh. 26	Morgan Adam et al	For damages by water to east half of lot No. 28, in the 14th concession of the township of Smith,	24 00
18493	" 11	George Whittington et al.,	county of Peterborough, Ont.  For damages by water to lot No. 17, and part of lot No. 16, in the 3rd concession of the township of South Monaghan, county of Northumberland, Ont.	240 00
	1909.			
18494		David Bardow et al	For damages by water to the west half of lot No. 24, in the 16th concession of the township of Harvey, in the county of Peterborough, Ont.	50 00
10405	1910.	n 1 77 - 10 to 1	D	05.00
18495	Jan. 15	al.	Damages by water to part of the east half of lot No. 15, in the 17th concession of the township of Ottablee county of Peterborough Out.	65 00
18496	" 15 1909.	Thomas Thomson et ux	15, in the 17th concession of the township of Otonabee, county of Peterborough, Ont.  For damages by water to lot No. 4, and part of lot No. 1, hlock 'A,' township of Otonabee, county of Peterborough, Ont.	60 00
18497	May 22	Henry G. Nisbett	For damages by water to west half of lots Nos. 4 and 5, in the 16th concession of the township of Harvey, county of Peterborough, Ont.	140 00
18498	June 19	David Hutchison et ux	For damages by water to lot No. 14, in the 17th concession of the township of Otonabee, county	650 00
18499			of Peterborough, Ont.  Damages by water to lot No. 7, in the 9th concession of the township of Otonabee, county of Peterborough, Ont.	1,100 00
	1910.			
18500			For damages by water to west half of lot No. 12, in the 17th concession of the township of Otonabee, county of Peterborough, Ont.	240 00
* T	oo late for l	ast year's report,		

<sup>•</sup> Too late for last year's report,  $20-7\frac{1}{2}$ 

Damages released to the Department of Railways and Canals during the Fiscal Year ended March 31, 1910—Concluded.

## TRENT CANAL-Concluded.

No. of Re- lease.	of		Grantor.	Description.	Amount.
	1909.	- [			\$ ct s.
18501	Dec. 21	1	Lewis Parker et al	For damages by water to part of lot 19, in the 15th concession, east of Eel's creck, township of Har-	60 00
18502	Nov. 24	1	Benjamin Kindred et al	vey, county of Peterhorough, Ont. For damages hy water to northwest quarter of lot No. 8, in the 8th concession of the township of	160 00
18503	Dec. 17	7	Matilda Wright et al	Otonahee, county of Peterhorough, Ont. Damages hy water to the south half of lot No. 4, in the 7th concession of the township of North	200 00
18504	June 23	3	Ellen Cadigan ct al	Monaghan, in the county of Peterhorough, Ont. Damages hy water to part of lot 4, and to the north- east quarter of lot 5, in the 10th concession of the township of Ennismore, county of Peter- horough, Ont.	225 00
*18505	Mar. S	8	Daniel Cadigan et al	Damages by water to parts of lots 4 and 5, in the 10th concession of the township of Ennismore,	250 00
18506	June 12 1910.		Eleanor A. Allen	county of Peterhorough, Ont.  For damages hy water to lot No. 4, in the 14th concession of the township of Harvey, county of Peterborough, Ont.	150 00
18507	Mar. 1		Nathaniel Crowe et al	Damages by water to part of the west half of lot No. 18, in the 15th concession of the township of Harvey, county of Peterhorough, Ont.	35 00
18513	May 4	4	John B. McWilliams et ux.	Damages by water to lots Nos. 2 and 3, in the 11th concession of the township of South Burleigh, and to island No. 47, in the township of Dummer, county of Peterborough, Ont.	400 00

<sup>\*</sup> Too late for last year's report.

H. F. ALWARD,

Departmental Solicitor.

# PART III

# REPORTS OF THE GOVERNMENT RAILWAY BOARD AND OTHER OFFICIALS FOR THE YEAR 1909-1910.

- 1. Government Railways Managing Board.
  - W. B. MacKenzie, Chief Engineer, I.C.R.
  - T. C. Burbee, Engineer of Manitenance, I.C.R.
  - G. R. Joughins, Superintendent of Motive Power, I.C.R.
  - S. L. Shannon, Comptroller, I.C.R.
- 2. T. C. Burbee, Engineer of Maintenance, Windsor Branch.
  - S. L. Shannon, Comptroller, Windsor Branch.
- 3. W. B. MacKenzie, Chief Engineer, P.E.I. Ry.
  - G. A. Sharpe, Superintendent, P.E.I. Ry.
  - W S. Poole, Mechanical Superintendent, P.E.I. Ry.
  - W. T. Huggan, Accountant and Auditor, P.E.I. Ry.
- 4. Chairman and Secretary of Government Railways Provident Fund.



MONCTON, N.B., July 6, 1910.

SIR.—The Government Railways Managing Board have the honour to submit the tollowing report on the working of the Government Railways during the fiscal year ended March 31, 1910.

The board was constituted by an order in council, dated April 20, 1909, and the following were appointed its members, namely:—

Mr. M. J. Butler, Deputy Minister and Chief Engineer of the Department of Itailways and Canals, chairman of the board.

Mr. David Pottinger, I.S.O.

Mr. E. Tiffin, general traffic manager.

Mr. F. P. Brady, general superintendent.

Subsequently on February 5, 1910, Mr. Butler having resigned, Mr. A. W. Campbell, C.E., Deputy Minister of the Department of Railways and Canals, was appointed chairman of the board, and Mr. D. Pottinger, assistant chairman, by order in council, dated February 3, 1910.

The board, therefore, from February 5 to March 31, 1910, was constituted as follows:—

. Mr. A. W. Campbell, C.E., chairman, Ottawa.

Mr. D. Pottinger, I.S.O., assistant chairman, Moncton.

Mr. E. Tiffin, general traffic manager, Moncton.

Mr. F. P. Brady, general superintendent, Moneton.

The board held its first meeting on May 26, 1909, at Montreal.

There were twenty-three meetings in all from that date to March 31, 1910, ten of them in Montreal, eleven in Moneton and two elsewhere along the line of railway.

The railways under the control of the board are:-

The Intercolonial railway, the Windsor Branch railway, and the Prince Edward Island railway.

Separate accounts are kept for each of these railways, and they will be considered separately in this report.

# THE INTERCOLONIAL RAILWAY.

The following reports of officials are inclosed:—

Report of the Chief Engineer on the works charged to capital account.

Report of the Engineer of Maintenance on the repair and renewal of the permanent way buildings and works.

Report of the Superintendent of Motive Power, and of the Mechanical Department's Accountant, with the statements relating to the Mechanical Department.

Also the general accounts of the railway prepared by the comptroller, as follows:

- 1. Capital account.
- 2. Revenue account.
- 3. Maintenance of way and structures.
- 4. Maintenance of equipment.
- 5. Traffic expenses.
- 6. Transportation expenses.
- 7. General expenses.
- 8. General stores account.
- 9. General balance.
- 10. Statement of averages.

Return of casualties:

8

9-10 EDWARD VII., A. 1910

The length of railway in operation during the year was the same as last year, 1,447.13 miles.

## CAPITAL ACCOUNT.

The cost of road and equip	oment on March 31, 1909, was \$90,994,664.06.	
ditions during the year were	as follows:—	
Campbellton-improvements	\$ 1,988	49
	and branch to wharf 5,228	44
Chaudiere Junction-engine	house, &c 6,834	
Dalhousie-extension to wh	arf 27,500	
Eastville—to provide a sub	way crossing, about one mile south	
of Londonderry station		75
Halifay_increased accommo	odation	
Indiantown and Blackwille-	to put line into condition for opera-	
		90
		24
	ear shops with equipment and new	40
ireight yard		
Moneton—cut-off line at		
Mulgrave—improvements	18,403	
Newcastle—improvements	2,472	
North Sydney—improvemen	ts	
	lation	
	s	88
	rhead crossing, about two miles north	
	43	
	ouse, machine shops, &c 156,945	
	7,875	
Sydney Mines to River Georg	ge—diversion of line	36
St. Cyrille and Drummondvi	lle—diversion of public road to elim-	
inate a crossing at rail	level	00
Ste. Flavie-increased accor	mmodation 3,754	26
Ste. Rosalie-improvements.	3,540	32
Truro-increased accommod	ation	51
New machinery for locomoti	ve and car shops 95,799	43
		09
Double tracking parts of lir	ne	65
Increased accommodation at	nd facilities	
	2,696	
Strengthening bridges		
Rolling stock		
To increase water supply	42,482	
To include water supply		
	\$1,278,467	60
Less:	4.4,210,101	
	nes, 1908-09 \$ 4 90	
To extension to Sydney Min	at Stellarton, 1908-09 53 25	
To increased accommodation	58	15
		10
	1,278,409	45

The explanation of the above deductions is as follows:

The \$4.90 is a refund of an amount overpaid for legal services.

The amount of \$53.25 is composed of two sums, a cheque for \$50 was issued to pay for land, the person in whose favour the cheque was drawn refused to accept the amount offered, and the cheque was cancelled, the \$3.25 is a credit for express charges refunded.

Explanations in regard to the expenditures on capital account will be found in the report of the chief engineer, and in the report of the superintendent of motive power.

#### REVENUE ACCOUNT.

The gross earnings and the working expenses for the year compare as follows:— Gross earnings
Net earnings
The gross earnings compare as follows with those of the previous year:— In 1909-10
Increase
The earnings from passenger traffic compare as follows:— In 1909-10
Increase\$ 137,666 09
The earnings from freight traffic compare as follows:— In 1909-10
Increase
The earnings from mails and express freight compare as follows:— In 1909-10
Increase \$ 57,165 84
The earnings by mile of railway compare as follows:— In 1909-10
Increase
The earnings by train compare as follows:— In 1909-10
The number of passengers carried compares as follows:— In 1909-10
Increase \$ 215,087

There was an increase of 217,330 in the number of local passengers, and a decrease of 2,243 in the number of through passengers.

9-10 EDWARD VII., A. 1910

The weight of revenue producing freight compares as follows:-

Increase	353,268

There was an increase in local freight of 216,188 tons, and also an merease in through freight of 137,080 tons.

A number of statements which give detailed information in regard to the traffic are appended to this report. They are as follows:—

Statement of receipts, showing the receipts monthly from passenger traffic, freight traffic and mails and sundries.

Passenger statement showing monthly the number of local and of through passengers carried, and the mileage.

Freight statement showing monthly the number of tons of local and of through freight carried, and the mileage.

Comparative statement of the principal articles of freight carried during this year and the preceding year.

Descriptive statement of freight transported, showing a few of the principal articles.

Statement of coal transported showing the stations from which it was sent.

Statement showing the quantity of raw and of refined sugar, of fresh and salted fish, of grain for export, and of European freight carried over the railway.

Statements of the ocean borne passenger business at Halifax, at St. John and at Quebec, showing the number of passengers received by the railway from each of the steamers named.

Statements of ocean borne freight traffic at Halifax and at St. John, showing the quantity of freight imported and exported by the lines of steamers named and carried over the railway.

#### WORKING EXPENSES.

The working expenses compare as follows with the previous year:— In 1909-10. \$8,645,070 33 1908-09. 9,328,021 55
Decrease\$ 682,951 22
The averages compare with those of last year as follows:—
Per mile run by engines—
In 1909-10
1908-09 1-0129
Per mile run by trains—
In 1909-10 1.29
1908-09
Working expenses per mile of railway—
In 1909-10\$5,973 94
1908-09 6,445 89

The Engineer of Maintenance reports that the track, bridges and structures of the railway have been kept in good repair.

During the year 600.163 ordinary ties and 288 sets of switch ties were put in. 56.38 miles of track were reballasted, 67.659 cubic yards of ballast being used. 3.85 miles of additional sidings were provided at various points.

Bridges, culverts, wharfs and buildings received necessary repairs.

The fences were repaired and 47.42 miles of fences were built.

The snow sheds and snow fences were repaired.

The Superintendent of Motive Power in his report which is sent herewith states that the general condition of the rolling stock is good.

One box freight car, sixteen platform cars and one flanger car were rebuilt in the

railway shops to replace an equal number taken out of service.

Thirty steel side dump coal cars were purchased to replace coal cars of an equal capacity taken out of service. Six box baggage cars were purchased to replace an equal number of cars taken out of service.

All the above were charged to working expenses.

## STORES.

The value of stores purchased was	\$2,800,212 24
The value of stores used was	3,363,105 44
The value of material sold was	
The value of stores on hand at the end of the year was:-	
Miscellaneous	\$ 511,892 90
Fuel	416,911 37
Roadway and bridge material	314,377 42
-	
Total	\$1,243,181 69

#### ACCOUNTS.

During the session of parliament of 1908-09, the Select Standing Committee on Public Accounts inquired into and considered the various items composing the general balance of the railway, and recommended that items amounting to \$153,731.04 which were found to be uncollectable be eliminated from the general balance. This recommendation was approved by parliament and the items were transferred to Dominion account accordingly.

### GENERAL.

The winter of 1909-10 was comparatively mild and more favourable to the working of the railway than the previous year. There were several heavy snowstorms, but they eaused very little delay to trains. The expenditure for clearing snow and ice was \$91,124.29. The sudden and extreme changes of temperature experienced during the winter made it very trying to the rolling stock and also to the track.

On August 3, 1909, the coal shed at Richmond was destroyed by fire, together with about 50 tons of coal. The trestle leading to the coal shed was partly burned. Thirteen light box cars, one cattle car, one gondola car, seven large coal hopper cars and two small coal hoppers were also destroyed in the same fire. The balance of the coal in the shed was saved; some of it in a damaged condition.

On November 17, 1909, the car service building at Moncton, the ground floor of which was occupied by the trainmen's rest rooms and by the express companies, and the upper floor of which contained the offices of the car service department, was considerably damaged by fire, one end of the building being destroyed with all the car service records. Temporary accommodation was provided for the occupants of the building until it was rebuilt.

Between April 15 and 23, 1909, considerable trouble was experienced on the portion of the line between Gibson and Blackville in consequence of high water. Heavy rains set in and the freshets caused several washouts and earth slides; the ice jammed in the Miramiehi river and the water rose and overflowed the track to a depth of several

feet at a number of places, the track at McNamee's flats being under the water for some distance for several days. During that time the movement of freight traffic was interrupted, and passengers and mails were transported only with difficulty and some delay, a transfer having to be made by teams at places where the trains could not get through. When the water had subsided and the repairs to the roadway and track were being made it was found desirable to raise the track at McNamee's and an expenditure of \$1,000 was made on that account.

From September 27 to 30, 1909, trouble was again experienced on the same portion of the line from washouts, earth slides and overflow of water, in consequence of continual heavy rains. The movement of freight was again delayed. Passenger trains were also delayed on that account. The total cost of repairing the damage done on the above section of the road amounted to \$2,673.65.

On October 1, 1909, there were several washouts in the neighbourhood of Dorchester, caused by high tides in the Petiteodiac river, and trains, both passenger and freight, were delayed to some extent in consequence. When repairing these washouts, it was decided to raise the level of the track in certain places by filling so as to afford better protection for the future, and this was done at a cost of \$3,426.56—6,660 cubic yards of material being used for the purpose.

On October 25 and 26, 1909, a succession of heavy rain storms caused a number of washouts at different places on the line betwen New Glasgow and Mulgrave; the most serious ones being Sylvan Valley Mills, Pomquet, Afton and Delorey's. All traffic over that portion of the road was interrupted for twenty-four hours. The cost of repairing the damage done amounted to \$2,141.78.

# WINDSOR BRANCH RAILWAY.

The line extends from Windsor Junction to Windsor, N.S., and is 32 miles in length. It is under lease to the Dominiou Atlantic Railway Company, which operates the line, and which has also running powers over the Intercolonial railway between Windsor Junctiou and Halifax.

The Windsor branch is maintained by the government, and the company pays to the government one-third of the gross earnings.

The following statements of the accounts prepared by the comptroller are inclosed:--

No. 1. Revenue account.

No. 2. Maiutenance of way aud structures.

No. 3. General balance.

No. 4. Statement of earnings.

Also the report of the Engineer of Maintenance on the work done during the year, and on the condition of the branch.

The revenue (\frac{1}{3} earnings) was \$60,653 98
The cost of maintenance was
Net earnings \$37,104 08
The carnings increased considerably over those of the previous year as follows:-
Earnings, 1909-10 \$60,653 98
Earnings, 1908-09 56,031 33
Increase \$ 4,622 65

The increase was in both passenger and freight traffic.

The Engineer of Maintenance reports that the track, bridges, and structures have been kept in good repair.

det

## PRINCE EDWARD ISLAND RAILWAY.

This railway is 267.5 miles in length, and the gauge is 3 feet 6 inches.

The following reports of officials are enclosed:-

Report of the Chief Engineer on the works charged to capital account.

The cost of road and equipment on March 31, 1909,

Report of the Superintendent, who sends statements of the various accounts prepared by the accountant and auditor, also the report of the Mechanical Superintendent and the statements in regard to that department, also the return of casualties which occurred during the year.

was	\$8.258,967	94
The expenditure during the year was	206,396	97
Making the total eost on March 31, 1910	\$8,465,364	91
The report of the superintendent and the report of the catalla and explanations in regard to capital expenditure.	hief engine	er give the
The working expenses for the year were	\$427.283	73
The gross earnings wore.		74
Deficiency	\$108,208	99
The gross earnings compare with the previous year as foll	cws:—	
In 1909-10		74
In 1908-09		63
Increase	\$ 7,755	11
The increase was in both passenger and freight traffic.  The working expenses compare with the previous year as	follows:—	
In 1909-10		73
In 1908-09.		
Increase	\$ 16,953	32
· ·	,	1 11

The necessary work was done to maintain the permanent way and works, and the rolling stock, and they are in a state of efficiency.

INTERCOLONIAL AND PRINCE EDWARD ISLAND RAILWAYS EMPLOYEES' PROVIDENT FUND.

The report of this fund which has been sent separately shows:-

Credit balance on March 31, 1909  During, the fiscal year the contributions of the em	\$225,898 31
ployees amounted to	69,949 70
The contributions of the railways amounted to	69,949 70
Amounts received for refunds	483 06
A total of	\$366,280 77
The total expenditure was	117,010 01
Leaving a balance of	\$249,270 76
To which is to be added the interest	6,314 32
Making a total amount to the credit of the fund on March 31, 1910	\$255,585 08

9-10 EDWARD VII., A. 1910

During the year one hundred and sixty-eight employees were retired and placed upon the fund and seventeen have died, leaving three hundred and fifty-three persons on the list receiving an allowance from the fund at the end of the fiscal year. This is an increase of 151 persons compared with last year.

We have the honour to be, sir,

Your obedient servants,

- A. W. CAMPBELL, Chairman.
- D. POTTINGER, Assistant Chairman.
- E. TIFFIN, General Traffic Manager.
- F. P. BRADY, General Superintendent.

  Government Railways Managing Board.

## INTERCOLONIAL RAILWAY OF CANADA.

OFFICE OF THE CHIEF ENGINEER.

Moncton, N.B., June 30, 1910.

SJR,--I have the honour to submit the following report on Capital Account expenditure for the fiscal year ending March 31, 1910:—

#### TOWARDS DOUBLE TRACKING PARTS OF THE LINE.

The double track between Moncton and Painsec Junction was completed and put in operation on August 22, 1909.

A concrete retaining wall with iron pipe railing was constructed for the protection of the street leading from Church street to St. George street; this was necessary on account of this street having been narrowed considerably by the excavation for the second track.

Electric signal gongs were installed for protection at the following crossings:— Irishtown Road, Sunny Brae, and at Lutes, Queen, Robinson, Victoria, St. George and Church streets in the city of Moncton.

A signal tower was built and an interlocking plant installed for the protection of trains at the point where the Moneton and Buctouche railway crosses the Intercolonial.

.419 of an acre of land required for the right of way was purchased.

## IMPROVEMENTS AT MULGRAVE.

The work in connection with the extension of the water pipe line, and construction of a reservoir for additional water supply for which the contract was let in the fiscal year 1908-09 was completed.

·3061 of an acre of land required for the reservoir was purchased.

A second track was laid on the main line from Pirate Harbour to Mulgrave, a distance of 1,986 lineal feet.

A brick house with concrete foundation was erected for the hoisting engine in connection with the transfer bridge of the Strait of Causo ferry service.

#### IMPROVEMENTS AT LOGGIEVILLE.

The station facilities at this point were remodelled and enlarged.

.688 of an acro of land was purchased.

A new five-stall brick engine house and annex, a standard cinder pit and ring wall for turntable were built. (The ring wall and turntable were charged to Capital Appropriation—'New Turntables.')

A steam heating apparatus was provided for the engine house.

A complete system of drainage was provided to carry drainage to the river about 900 feet distant from the engine house.

The water supply was extended from the existing tank through a line of 10-inch C. I. pipe to a stand pipe located near einder pit, and from stand pipe to engine house and station. The tracks in yard were remodelled and lengthened by the laying of 2,805 feet of additional sidings.

The station was removed to a new location to suit the remodelled yard. It was also remodelled and extended. A new cellar and foundation was provided and new platform built. A new freight shed 20 feet by 60 feet with a freight platform was erected. On account of bad weather and early frost last fall, the work on the water service and drainage system was not completed.

The cast iron smoke jacks, water service and heating of engine house were not

completed.

All the uncompleted work will be finished up early in the fiscal year of 1910-11.

All the work, excepting the freight house and platform was done by the day, as a large part of the material used was taken from other buildings that had been demolished. The freight house and platform were built under contract.

# To increase accommodation at Truro-

The work in connection with the contract for the construction of a highway at the east end of the yard to take the place of Christie's lane was completed. The lane was closed by the construction of a track in the new yard.

The cribwork protection at the ends of the bridge abutments of the approaches to

the new yard, was also completed.

An addition of six pockets were added to the existing coaling plant.

\* An office for the yardmaster was under construction by day labour, and will be completed in fiscal year 1910-11.

Some grading was done and 4,938 lineal feet of tracks laid in the new yard. 301,418 square feet of land required for yard accommodation were purchased.

To increase accommodation at Pictou.

A loading platform was provided and an addition added to the existing ice house.

# Cut-off Line at Moncton.

Location surveys were made from Sunny Brae flag station to the vicinity of the new shops at Moneton, a total distance of 1.44 miles of double track.

Expropriation plans and descriptions for right of way were filed (October, 1909), and plans and specification prepared in readiness to ask tenders for construction.

# Original Construction.—

Under this appropriation, the following amounts werer paid: Marion S. Morrow, widow of Geoffrey Morrow; Chas. T. Mander, Deaf and Dumb Institution; and Henry N. Paint, \$5,906.25 for 118,125 square feet of land and land covered with water at Point Tupper. Imperial Oil Company, \$344 for repayment of expenses for removal of oil pipes and other property at Afrieville made necessary by the removal of the railway fence to the eastward in consequence of the double tracking of the Intercolonial railway between Riehmond and Rockingham.

9-10 EDWARD VII., A. 1910

R. T. MacIlreith, \$219.94, for legal expenses in connection with the Imperial Oil Company's claim.

James Friel, \$10 for legal scrvices re North River ballast pit.

P. S. Archibald, \$107.60, and Chief Engineer of the Intercolonial railway, \$38.15, for services and expenses in connection with case Montgomery vs. The King—Dalhousie water supply.

A. M. McLellan, \$18.15, for expenses re Cameron's siding, Sylvester.

# Improvements at North Sydney-

An extension was built to the existing freight shed on the railway wharf.

# To Strengthen bridges-

During the year bridges were erected at the following places:—

	Feet. Inches.
St. Octave—1 beam span	13 - 2
St. Octave—1 beam span	14 — 0
Kempt—1 beam span	12 — 9
Kempt—1 beam span	14 — 9
Cedar Hall—1 beam span	17 — 11
Cedar Hall—1 beam span	17 — 5
Cedar Hall—1 beam span	14 — 6
Amqui—1 beam span	13 — 6
Amqui—1 beam span	13 — 0
Beau Rivage—1 beam span	17 — 6
Beau Rivage—1 deck plate girder span	34 6
Trois Saumons—1 deck plate girder span	25 — 0
Hadlow—1 deck plate girder skew span	56 — 6
St. Romuald—1 beam span	14 — 8
St. Romuald—1 beam span	15 — 9
St. Romuald—1 beam span	16 — 0
St. Romuald—1 through plate girder span	25 — 5
St. Romuald—1 beam span	13 — 5
St. Romuald—1 beam span	17 — 3
St. Romuald—1 beam span	16 — 3
St. Romuald—1 beam span	17 — 4
St. Romuald—1 deck plate girder span	34 — 6
St. Romuald—1 deck plate girder span	18 — 9
St. Romuald—1 beam span	18 — 9
St. Romua <sup>1</sup> d—1 beam span	21 — 0

The necessary alterations and painting in connection with the above bridges will be completed in fiscal year 1910-11.

The Hillside paving blocks that were delivered last year were laid on the Union street overhead bridge.

# Improvements at Sackville.

The freight shed for which the contract was let last year was completed and the building wired for electric lighting. New freight scales were put in freight shed.

A cattle pen was provided. A roadway was made from the new freight shed on Intercolonial railway property to Lorne street.

The grading required around new freight house was completed and 775 lineal feet of tracks laid.

# To increase accommodation at Halifax-

The contract work in connection with the 36-stall engine house and concrete annex, power house and for the supply and installation of a fan-heating system, steam and water pipes, &c., for the engine house were completed, but the final estimates were not paid on account of the appropriation being exhausted.

The 3-280 H.P. boilers, supplied under contract by the Canada Foundry Co., were

erected in place on concrete foundations in the boiler house.

The oil house was equipped with a set of tanks and pumps, supplied under contract by the S. F. Bowser & Co., Ltd.

Alterations were made to the coaling pockets to facilitate the handling of coal for the low engines.

Improvements were made to the water supply system.

The work in connection with the moving of the electric plant from North street to the Willow Park yard and wiring the new buildings and yard was carried on during the year.

The final estimate in favour of Beazley Bros., on their contract for submarine

blasting and dredging at Deep Water terminus was paid.

The balance due the contractor in connection with the double tracking of the Cotton Factory branch which was completed in 1908-09, was paid.

'A trackman's tool house was erected on the Cotton Factory branch.

5.215 acres of land required for right-of-way for Cotton Factory branch were purchased.

13,835 lineal fect of tracks were laid in the Willow Park yard and ballasted.

For details of machinery, see report of G. R. Joughins, superintendent of motive power and rolling stock.

# Diverson of line Sydney Mines to River George-

Surveys were made for a single track diversion from near George's River station to Sydney Mines, via the shore of Little Bras d'Or lake, a distance of 9.09 miles. Plans and specifications have been prepared and tenders asked for.

# Diversion of line at Chatham and branch to wharf,

Location has been made from Nelson station, easterly through the town of Chatham, thence to a point about 1½ miles east of the town limits three miles west of Loggieville and where the new line connects with the existing one. Length of new line, 8-28 miles.

Plans and specifications were prepared and tenders asked for.

# Locomotive and car shops with equipment and new freight yard at Moncton—

Some additions and extensions were made to the internal arrangements of the locomotive and passenger ear repair shops, and a terrano floor was put in the power louse.

Additions were made to the water and drainage pipes.

10 96-inch diameter cast iron turntables were installed.

9 96-inch diameter steel turntables for trolley tracks were installed.

A 15-inch steam header for the steam boilers was erected.

2 chain grate stokers were provided for the boilers taken from the old shops.

A large area of excavation was made by steam shovel and 28,597 lineal feet of track laid and ballasted.

For details of machinery and electrical equipment, see report of G. R. Joughins.

#### New turntables-

The 75-foot steel turntable that was delivered at Loggieville in year 1908-09 was erected in place on a concrete centre foundation and ring wall.

20 - 8

To increase water supply-

The following work was done under this appropriation during the year:-

St. Apollinaire.—The work in connection with water supply and tank at this place has been completed. A piece of land for a reservoir on the brook was taken; but the amount offered the proprietor has been refused. Three mill-owners further down the brook claim that the taking of water from the brook by the railway produces a scarcity of water for the operation of their mills, and they are claiming damages.

Cedar Hall.—A survey was made, plans and specification prepared and tenders asked, and a contract let for an extension to the existing pipe line and for the con-

struction of a reservoir and a 50,000 gallon water tank.

North Sydney.—The existing pipe line was extended 240 lineal feet and one fire hydrant erected for fire protection.

Contract was let for 50,000 gallon water tanks at Rogersville, Beaver Brook and Windsor Junction, and the work of construction is under way.

Little Metis.—The existing pipe line was extended and a pump house, pump and boiler provided.

Sussex.—The existing pipe line was extended and pump house, pump and boiler supplied.

St. Charles Junction.—The work in connection with the water supply at this place was completed.

Reservoirs were fenced at Springhill Junction, Piedmont and Bathurst.

Sydney.—The existing pipe line was extended 240 feet and three fire hydrants creeted for fire protection.

Increased accommodation and facilities along the line.

Mackenzie.—A combined passenger station and dwelling was provided.

Boiesdale.—A passenger station was provided.

St. John.—A wooden car repair shop was provided. A fire alarm system was installed throughout the yard. Some grading was done and 5,579½ feet of track laid in the yard and ballasted.

Dorchester.—Toilet accommodations were installed in the station and agent's

dwelling apartments.

Petit Rocher.—An electric semaphore was erected west of the station on the spur line to the wharf, but was only in operation a short time when it was taken down and is now stored at Moneton.

New Glasgow.—The freight office was enlarged and a hot water heating system installed.

Merigomish.—An addition to the freight shed was built.

Montmagny.—A building for baggage, coal and oil was provided.

Dalhousie.—A one-stall brick engine house was built by day labour.

Hampton.—A baggage room was provided.

Carrolls.—A shelter was provided.

Marysville.—The existing freight shed was extended.

St. Paschal.—The existing freight shed was extended and room provided for baggage, coal and oil.

Little Metis.—Plans and specification were prepared for a wooden station, tenders asked and contract let, which was cancelled before any work was done.

Lac au Salmon.—The freight shed was extended.

Hurley Brook.—A shelter and platform was provided.

McLeod's.—A shelter and platform was provided.

Amqui.—A sewer was put in for drainage from station to take the place of two cess pits.

St. Pierre.—A loading platform was built.

L'Islet.—A building for baggage, coal and oil was provided.

St. Alexis.—The freight shed was extended.

Ivory's.—A shelter and platform was provided.

Weaver's.—A shelter and platform was provided.

Upper Blackville.—A building for baggage, coal and oil was provided.

St. Philippe de Neri.—A loading platform was built.

Aston Junction.—A building for baggage, coal and oil was provided

Astle's Crossing.—A shelter was provided.

Manzer's.—A shelter was provided.

Nashwaak.—A shelter and platform was provided.

Blissfield.—A shelter was provided.

Cushman's.—A shelter and platform was provided.

Clearwater.—A shelter was provided.

Forks.—A shelter and platform was provided.

St. Valier.—A loading platform was provided.

Renous.—A combined station and freight shed with freight and passenger platform was provided.

Crossing signal gongs were installed at the following places:—

Bedford.—One at crossing east of station.

Brookfield.—One at Dunmore road.

Sussex.—One at crossing east and one at crossing west of station.

Sydney.-One at King's road.

Sydney Mines.—One at Bras d'Or road.

Antigonish.-One at Sylvain road.

Halifax.—One on main line at Richmond and one on Cotton Factory branch.

Fencing.—During the year standard wire fencing was erected as follows:—

	Rods.
Drummond county division	1,365
North No. 2 division	
North No. 1 division	119
Canada Eastern division	
Central division	
Eastern extension division	57

An extension was made to the east cottage at Moncton.

St. Anaclet.—A building for baggage, coal and oil was provided.

St. Alexander.—A building for baggage, coal and oil was provided.

Bore holes for water.—Were bored at the following places: Leitches Creek, Scotsburn, West Bay road, Elmsdale, Shubenacadie, Boundary Creek, Salisbury, Daveluyville, Carmel, Cacouna, Tobin and East Mines.

# Sidings-

Petit Rocher-New siding, 776 feet.

Upper Dorchester—Siding extended, 434 feet.

Dalhousie Wharf.—New siding, 504 feet.

Enfield.—New siding, 642 feet.

Bathurst.—New siding, 555½ feet.

Boiestown.—Siding extended, 1,504 feet.

Boiestown.—Spur siding, 567 feet.

Carrolls.—Siding extended, 687 feet.

Amqui.—Siding extended, 336 feet.

Tatamagouche.—Siding extended, 150 feet.

Windsor Junction.—Siding extended, 820 feet.

Lac au Saumon.-New siding, 428 feet.

Gibson-New siding, 3,700 feet.

Renous River Bridge.—New siding, 260 feet.

20-81

Improvements at Ste. Flavie-

The yard was improved by laying 3,840 additional feet of track.

Improvements at Ste. Rosalie-

A bore hole for water is being sunk. Improvements were made to the yard and 1,094 feet of track laid.

Engine house, &c., Chaudiere Junction-

Plans and specification were prepared for an addition of 6 stalls to the engine

The freight car repair shop for which the contract was let in 1908-09 was completed.

Improvements were made to the water service and coaling pockets.

1,116 feet of track was laid in the yard.

Engine House, machine shop, &c., Riviere du Loup-

The contract for the machine shop, boiler house and brick chimney was completed. 3—290 H.P. boilers were supplied and erected in place on concrete foundations in the boiler room.

2—60-ton 4-motor and controller electric cranes 66 foot span with 10-ton auxiliary hoist and one 10-ton 3-motor electric travelling crane, 37-foot span, 16-foot lift, alternating current, were delivered and erected in place in the machine shop.

A brick stores and office building was constructed.

Plans and specification were prepared, tenders asked and contract let for an addition of 6 stalls to the existing engine house and for an addition to the freight shed and the work of construction gone on with. A fan heating system was installed in the machine shop, erecting shop, boiler and wheel shop and blacksmith shop. The old engine house was torn down and the material used in constructing engine house at Loggieville and Dalhousie. A large amount of grading was done in the year and 10,393 lineal feet of new tracks laid. Improvements were made to the water service:

For details of power plant, electrical equipment and machinery, see report of G.

R. Joughins, superintendent of motive power and rolling stock.

Improvements at Drummondville-

Nothing was done under this appropriation.

Improvements at Newcastle-

The engine house was wired for electric lighting.

Improvements at Campbellton-

The extension to the pipe line for water service for which the contract was let in 1908-09 was completed.

Improvements at Point Tupper-

A rest house for the accommodation of trainmen was provided.

The water supply was improved by raising dam at reservoir. A brick house with concrete foundation was erected for the hoisting engine in connection with the transfer bridge of the Strait of Canso ferry service.

To provide an overhead crossing at Probert's. About 2 miles north of Londonderry Station—

Nothing was done under this appropriation.

To provide a subway crossing at Eastville. About one mile south of Londonderry

Station-

Nothing was done under this appropriation.

Rolling stock-

For details of this appropriation, see report of G. R. Joughins, superintendent of motive power and rolling stock.

New machinery for locomotive and car shops-

For details of this appropriation, see report of G. R. Joughins, superintendent of motive power and rolling stock.

To put railway between Indiantown and Blackville into condition for operation-

This work was completed.

Extension to Dalhousie wharf-

The work in connection with the extension to this wharf was completed in the fiscal year 1908-09. The appropriation of 1909-10 for \$27,500 was to cover an amount held in suspense account for this work.

Diversion of road to eliminate crossing at rail level, between St. Cyrille and Drummondville—

This work was done in the fiscal year 1908-09 by the corporation of the town of Drummondville and the appropriation of \$1,300 for 1909-10 was to cover the cost which was held in suspense account.

I have the honour to be, sir,

Your obedient servant.

(Signed) WM. B. MACKENZIE,

Chief Engineer.

D. POTTINGER, Esq., 1.S.O.,

Assistant Chairman, Government Railways Managing Board, Moncton, N.B.

## INTERCOLONIAL RAILWAY.

OFFICE OF THE ENGINEER OF MAINTENANCE.

Moncton, N.B., June 1, 1910.

To the Canadian Government Railways Managing Board, Moncton, N.B.

Gentlemen,—I beg leave to submit the following annual report for the Maintenance of Way Department for the year 1909 and 1910.

#### TRACK.

During the year 38.40 miles of 56, 58, 67, 80 and 110 lb. rails were taken up and replaced with 67 and 80 lb. rails.

#### TIES.

During the year 600, 163 ordinary ties and 288 sets of switch ties were put in the track.

#### BALLASTING.

During the year 56.38 miles of track was ballasted, using 67,659 cubic yards of ashes and gravel.

#### SWITCHES AND SEMAPHORES.

New semaphore signals were erected at the following stations:-

St. Wenceslas	1
Carmel	
Riviere du Loup	1
Trois Pistoles	1
Salisbury	

176 new switches were installed during the year.

New telegraph signals were installed during the year at the following stations:

Villeroy	1
Daveluyville	1
Carmel	1
Tobin	
St. Simon	

Necessary repairs were made to all semaphores, switches and telegraph signals throughout the line.

#### SIDINGS.

During the year 3.85 miles of additional siding accommodation has been provided at different points on the line for maintenance account.

### FENCE BUILT BY OUR OWN MEN.

2.86 miles of woven wire fence was built at different points on the line by our own men.

Built by contract, 44.56 miles of woven wire fencing.

Necessary repairs were made to fences throughout the line.

#### SNOW FENCES.

There was built during the year 66.25 rods of stationary snow fence, eight feet high; 363 rods of portable snow fence.

Necessary repairs were made to snow sheds and snow fences, where required.

## WHARFS AND TRESTLES.

## Repairs.

St. John, long wharf.
St. John, ballast wharf,
Halifax, pier No. 2.
Halifax, pier No. 3.
Halifax, pier No. 4.
Halifax, pier No. 5
Halifax, Cunard wharf.
Halifax, coal trestle, D.W.T.
Richmond, pier No. 6.
Richmond, pier No. 7.
Richmond, pier No. 8.
Richmond, coal trestle.

Gibson, wharf.
Loggieville, wharf.
Moncton, public wharf.
Mulgrave, wharf.
Newcastle, coal trestle.
North Sydney, wharf.
Prince's Pier, wharf.
Point du Chêne, wharf.
Pietou, wharf.
Point Tupper, wharf.
Springhill Junction, coal trestle.
Stellarton, coal trestle.

#### BRIDGES AND CULVERTS.

# Repairs.

Aston Jct., west of, culvert.
Antigonish, 4 mile west of, culvert.
Black River, bridge. Bic, 2 culverts. Boiestown, 2 culverts.
Blackville, 2 culverts.
Blackville, bridge.
Bedford, bridge. Bayfield, culvert. Carmel, east of, culverts. Cap St. Ignace, west of, 3 culverts. Chaudière Jct. & St. Romuald, bet., culvert. Causapscal, culvert. Causapscal, bridge. Campbellton, west of, 2 culverts. Campbellton, east of, 2 culverts. Clearwater, bridge. Chatham, culvert. Cross Creek, bridge. College Bridge, culvert. Caldwell's Brook, culvert. Calhoun's, aboideau. Oalhoun's, aboideau.
Delotbinière, bridge.
Daveluyville, culverts.
Doaktown, 4 culverts.
Doaktown, bridge.
Durham, bridge.
Doyle Brook, bridge.
Dorchester, overhead bridge.
Debert, tuppel gulvert. Debert, tunnel culvert. Dartmouth, culvert. Flatlands, culvert. Folleigh, culvert.
Gibson, east of, culvert.
Hadlow, Bennett's bridge.
James River, culvert.
Kent Junction, Vaughan's sidins, bridge.
Lemieux, bridge.
L'Islet, i mile east of, culvert. L'Islet, culvert.

Lanse A Giles, <sup>3</sup> mile east of, culvert.

Ludlow, 2 culverts.

Lakeside, overhead bridge. Londonderry, west of, overhead bridge. Mitchell, east of, culverts. Montmagny, bridge. Montmagny, east of, 2 culverts.
Millstream, culvert.
Manzer's, bridge.
Marysville, bridge. Moncton, Jonathan Creek, aboideau.

McCafferty's, overhead bridge. McKinnon's Harbour, culvert. Nelson, 2 culverts. Nashwaak, 3 culverts.
Norton, culvert.
North River, bridge.
Otty's, overhead bridge.
Oxford Junction, culverts.
Oulton's, culvert.
Orangedale, east of, culvert.
Penniac, bridge.
Penniac, east of, 9 culverts.
Pugwash, draw bridge.
Pugwash Junction, east of, 2 culverts
Piedmont, west of, culvert. Nashwaak, 3 culverts. Piedmont, west of, culvert.
Quispamsis, culvert.
Quispamsis, overhead bridge.
River Henry, bridge.
Rimouski, culvert. Renous, bridge.
Rogersville, overhead bridge.
Rogersville, culvert.
Rocky Lake, bridge.
St. Cyrille, east of, culvert. St. Perpetue, culvert. St. Nicholas, culvert. St. Appollinaire, east of, culvert. St. Philippe de Néri, culvert. St. Philippe de Néri, one mile west of, culvert. St. Charles Junction, west of, culvert. St. Eloi, bridge. St. Luce, culvert.
St. Anaclet, culvert.
St. Simon, 2 culverts.
St. Moïse, culvert.
St. John, overhead bridge, Dorchester Street. Street.
Stewart's, bridge.
Sackville, bridge.
South River, east of, bridge.
Sutherland's River, bridge.
Sylvester, bridge.
Trois Saumon's, 4 mile west of, bridge. Taymouth, bridge. Truro, west of, culverts. Truro, bridge, Queen St. Tracadie, 2 culverts. Tatamagouche, culvert. Upper Cross Creek, bridge. Whetstone Brook, culvert. West River, bridge. Waverly, culvert.

#### PAINTING.

#### Bridges.

Adamsville, east of bridge.
Aulac, bridge.
Belledune, bridge.
Bathurst, bridge.
Beaver Brook, bridge.
Barnaby River, bridges Nos. 1, 2 and 3

George's River, east of, bridge.
Kent Junction, bridge.
Le Plancher River, bridge.
Linwood, west of, bridge.
Leitches' Creek, west of, 2 bridges.
Moffatt's, bridge.

Barnaby River, east of, bridges.
Blackville, bridge.
Beaver Cove, east of, bridge.
Boisdale, east of, bridges.
Canaan, east of, 3 bridges.
Coal Branch, east of, 2 bridges.
Cushman's, bridge.
Calhoun's, east of, bridge.
Canso, ferry landing.
Clark's Brook, bridge.
Derby Junction, east of, bridge.
Dorchester, bridge.
East Adams, bridge.
Folleigh, east of, bridge.
Gloucester Junction, bridge.
Greenville, east of, bridge.
Grand Narrows, east of, bridge.

Miramichi north west, bridge.
Miramichi, south west bridge.
Missiquash River, bridge.
Meadowbrook, 2 bridges.
New Mills, bridge.
Nashes Creek, bridge.
Nigadoo, bridge.
Newcastle, east of, bridge.
Nelson, bridge.
Nappan, bridge.
Nappan, bridge.
Nepisiquit, bridge.
North Sydney Jet., east of, bridge.
Painsee Jet., bridge.
Sackville, bridge.
Shubenacadie, east of, bridge.
Tatagouche, bridge.

## PAINTING.

# Buildings.

Anagance, station.
Amherst, tank.
Bathurst, station.
Belledune, tank.
Chaudière, station.
Canaan, tank.
Eureka, station.
Ferroma Jet., station.
Gloucester Jct., station.
Harcourt, freight house.
Londonderry, station.

Lakeside, station.
Mitchell, agent's dwelling.
Moncton, D. Pottinger's house.
Newcastle, round house.
New Glasgow, station roof.
Petit Rocher, station.
Rel Pine, station.
Springhill Jct., tank.
Stellarton, tank.
Torryburn. station.
Trenton, station.

# BUILDINGS AND PLATFORMS.

# Repairs.

Necessary repairs were made to stations, dwellings and outbuildings at the following places:—

Aston Junction. Assametquaghan. Adamsville. Amos. Astles. Apohaqui. Anagance. Amherst. Aulac. Athol. Avondale. Antigonish. Amqui. Bagot. Bic. Beau Rivage. Bersford. Bathurst. Bartibogue. Belledune. Beaver Brook. Berry's Mills. Blackville. Boiestown. Brookville. Bloomfield.

Model Farm. Maccan. Memramcook. Meadow Brook. Milford. Marshy Hope. Monastry. Mulgrave. Merigomish. Meadowville. Malagash. McLeod's. McNamee's. McKinnon's Harbour. McCallum's. New Mills. Nash's Creek. Newcastle. Naskwaak. Nelson. Norton. Nauwigewauk. Nappan. New Glasgow. North Sydney. Old Lake Road.

Belmont. Bedford. Brookfield. Barrachois. Brown's Point. Chaudière. Carmel. Cap St. Ignace. Chaudière Curve. Chaudière Junction. Cacouna. Campbellton. Causapseal. Cedar Hall. Culligan's. Charlo. Chatham Junction. Conn's Mills. Catamount. Coal Branch. Canaan. Cross Creek. Chatham. Carroll's. Cold Brook. College Bridge. Calhoun's. Drummondville. Delotbinière. Dessaint. Dalhousie. Dalhousie Junction. Dickie's. Derby Junction. Durham. Doaktown. Dorchester. Derbert. Dewis. Denmark. Dartmouth. Eel River. East Mines. Evans. Elmsdale. Eureka. Enfield. Flatlands. Folleigh. Ferrona Junction. Gloucester Junction. Gallagher Ridge. Gibson. Greenville. Glengarry. Grand Lake. Graham Siding. George's River. Grand Narrows. Harlaka Junction. Hadlow. Hadgin's. Harcourt. Humphrey's. Hampton. Hopewell. Hilden.

Isle Verte. Indiantown. Oxford Junction. Oakfield. Orangedale. Oxford. Point Levis. Petit Rocher. Petitcodiac. Point du Chêne. Penobsquis. Painsec Junction. Pictou Landing. Piedmont. Point Tupper. Pictou. Pugwash. Pugwash Junction. Passekeag. Quebec. Quispamsis. River Ouelle. Rivière-du-Loup. Rimouski. Red Pine. Rogersville. Renforth. Rothesay. River Philip. Riversdale. River John. St. Leonard. St. Cryille.
St. Wenceslas.
St. Germain.
St. Appollinaire.
St. Rosalie. St. Eugene. St. Nicholas. Ste. Louise. St. Michel. St. Jean Chyrsostome. St. Francois. St. Valier. St. Charles Junction. St. Jean Port Joli.
St. Romauld.
St. Joseph.
St. Pacome. Ste. Luce. Ste. Favie.

St. Simon.
Sacré-Cœur.
St. Aanclet.
St. Paschal.
St. Phillippe.
St. Arsene.
St. Fabien.
St. Alexander.
St. Helene.
Sayabec.
St. Octave.
St. Alexis.
St. Moise.
Sussex.
Shediac.
Springhill Junction.
Sackville.
Salt Springs.
Stewiacke.

Iona. Jacquet River. Jubilee. James River. Kent Junction. Lavergne. Lemieux. Laurier. Levis. Little Métis. Lac au Saumon. Lakeside. Londonderry. Lansdowne. Leitches' Creek. Lyons' Brook. Mitchell. Montmagny. Millstream. Matapedia. Moffatt's. Millerton. Marysville. Manzers'

Shubenacadie. Stellartoin. South River. Sydney Mines. Sydney. Shenacadie. Scotsburn. Sylvester. Trois Pistoles. Thomson. Truro. Trenton. Tracadie. Tatamagouche. Upper Dorchester. Union. Villeroy. Westchester. Wentworth. West River. Westville. Wallace. Waverley.

Iron bars were placed on freight shed doors and windows where required.

The following repairs were made to buildings, &c., at St. John:

Sheds, Nos. 2, 3, 5, 7, 8, 9 and 10. Elevator. Freight shed. Coachman's house. Gateman's House. Yard Office.

Station Train shed. Train shed platform. I. C. R. dwelling houses. Round House.

The following repairs were made to buildings, &c., at Halifax and Richmond:-

Sheds, Nos. 1, 2, 3, 4 and 8. Richmond station. North street station. Houses on Cunard property. Shops at Richmond. Cattle shed.
North street train shed.
D. A. R. shed. Postal building. Kemp road buildings. Mechanical repair shop, North street.

Brick freight shed City ticket office, Hollis street. Coal shed, Richmond. Immigration building. Watch tower, D. W. T. Blacksmith shop, D. W. T. Switch house. Loading platform, D. W. T. Car cleaner's building. I. C. R. dwelling house, 218 Campbeli road.

The following repairs were made to buildings, &c., at Moncton:

Transfer shed. Station platform. Erecting shop. Cattle shed. Loading platform. Track blacksmith shop. New shops. Freight house platform. Electrician's office.
Government cottage occupied by Mr. Pottinger.

Station. Car shop platform. Turning shop. Car mileage office. Engine house. Freight shed. Cottages on Bridge and Main streets. Yard office. Coaling plant. Ice House.

Government cottage occupied by Mr. Tiffin.

The following round houses and shops were repaired:

Chaudière Junction. Campbellton. Drummondville.

Point Tupper. Pictou. Rivière-du-Loup.

Dalhousie. Dartmouth. Nicolet. Newcastle North Sydney. Oxford Junction. Point du Chêne. Pirate Harbour.

St. Rosalie. Ste. Flavie. Sussex. Springhill Junction. Stellarton. Sydney.

Richmond.

Truro.

# Station and loading platforms were repaired at the following places:

Aston Juncton. Assametquaghan. Adamsville. Armstrong's. Apohaqui. Amherst.

Atkinson's siding.

Athol. Alton. Antigonish. Bagot. Bathurst. Bartibogue. Bloomfield. Bishop's Siding. Belmont. Barney's River. Boisdale. Campbellton. Causapscal. Cedar Hall. Culligan's. Charlo.

Chatham Junction. Coal Branch. Carroll's. College Bridge. Drummondville. Dalhousie Junction.

Durham. Dorchester. Debert. Dickie's. Denmark. Eel River. East Mines. Eureka. Elmsdale. Enfield. Eden. Fredericton.

Folleigh.

Fairview.

Fall River. Gloucester Junction Green Point. Gibson.

Grand Narrows. Hampton. Hopewell. Isle Verte Jacquet River. Jubilee. Kent Junction.

Kinsac. Laurier. Lemieux. Levis.

Memramcook. Mulgrave. Mines Road. McLeod's. McNamee's. New Mills. Nash's Creek. Newcastle. Nashwaak.

Norton. Nauwigewauk. Onslow.

Oxford Junction. Orangedale. Ottawa Brook. Point Levis. Petit Rocher. Penobsquis. Painsec Junction. Point Tupper. Pugwash. Pomquet.

Quispamsis. Riviere-du-Loup. Rimouski. Renforth. River Philip. River John. St. Germain.

St. Cyrille. St. Wenceslas. St. Eugene. Ste. Rosalie. St. Jean Chyrsostome.

St. Francois.

St. Charles Junction. St. Jean Port Joli.

Ste. Louise. St. Luce. Ste. Flavie. St. Simon. Sacre Cœur. St. Anaclet. St. Paschal. Savabec. St. Octave. St. Alexis. Sussex.

Shediac. Springhill Junction.

Sackville. Stewiacke. Stellarton. Sydney River. Shenacadie. Scotsburn. Trois Pistoles. Turgeon's.

Little Metis.
Londonderry.
Lakeview.
Leitches' Creek.
Lyon's Brook.
Mitchell.
Montinagny.
Millstream.
Matapedia.
Moffatt's.
Millerton.
Model Farm.

Thonison.
Truro.
Trenton.
Tatamagouche.
Upper Dorchester.
Westchester.
Wellington.
West River.
West Bay Road.
Westville.

New buildings were erected along the line as follows:-

Cross Creek, combined station and dwelling.

Carmel, combined station, dwelling and freight shed.

Daveluyville, combined station, dwelling and freight shed.

St. Cyrille, freight and baggage building.

McGivney's, dwelling.

Moncton, car service building rebuilt.

#### GENERAL.

New buffers were made and set up at different points on the line.

Repairs were made to crossings on the line at various places, where required.

Gates and cattle-guards have been repaired throughout the line.

Glass was put in and glazing done where necessary.

Ladders for buildings and semaphores were provided where necessary throughout the line.

Necessary repairs were made to turntables where required.

Semaphores, switches and telegraph signals have been painted throughout the line.

Necessary repairs have been made to hand cars, trollies, baggage trucks and wheel-barrows throughout the line.

Sign boards were made and put up where required.

Boxes were made for packing second hand bolts and spikes, when necessary. Necessary repairs were made to steam shovels, steam cranes, pile drivers, &c.

The track of the Intercolonial railway, with bridges and structures, have been kept in good repair, and I can safely say that I do not think it was ever in better condition than now.

I am, Yours faithfully,

T. C. BURPEE.

Engineer of Maintenance.

MONCTON, N.B., March 31, 1910.

## INTERCOLONIAL RAILWAY OF CANADA.

OFFICE OF SUPERINTENDENT MOTIVE POWER AND ROLLING STOCK,

Moncton, N.B., July 6, 1910.

Sir,—I have the honour to submit herewith the annual report of the operations of the motive power and rolling stock department for the year ending March 31, 1910.

I might add that the general condition of the rolling stock is good, with the exception of the cars and locomotives condemned as shown in the attached report. During the year we abandoned the old shops at Moneton and moved into the new ones which, of course, necessarily entailed a large amount of work and interfered

with the regular repairs to locomotives and ears, but with the improved facilities at the new plant we have been able to overcome the decrease in the output during the transition period, and this with a considerable reduction in the staff. The locomotive repair shops at Halifax were also abandoned during the year, and the services of about 100 employees were dispensed with at this place and the repair work transferred to Moneton.

I am, sir,

Your obedient servant,

(Signed) G. R. JOUGHINS.

Superintendent of Motive Power.

D. Pottinger, Esq., I.S.O.,

Assistant Chairman, Government Railways Managing Board, Moncton, N.B.

# INTERCOLONIAL RAILWAY OF CANADA.

OFFICE OF THE MECHANICAL ACCOUNTANT,

MONCTON, N.B., July 5, 1910.

SIR,—I beg to submit herewith the annual report of the operations of the mechanical department for the year ended March 31, 1910, as follows:—

A.—Statement showing the number of locomotives and the different classes of the other rolling stock on the line.

B.—Statement showing the mileage made, and the coal, oil, grease and waste consumed by locomotives.

Also a summary of the principal work done in the locomotive and car shops at Moneton, Richmond and River du Loup.

During the year the following rolling stock was purchased on renewals account (revenue):-

- 30 Hart-Otis steel side dump cars (coal), 100,000 lbs, capacity.
- 6 Box baggage cars.
- 1 Yard crane.
- 2 Coal cranes.

The thirty Hart-Otis dump cars, which have a total capacity of 1,500 tons, replaced 153 small hoppers and 29 twenty-ton coal cars, which were condemned, and which together equalled the same capacity as the dump ears.

The following rolling stock was rebuilt in the shops at Moncton on revenue account

to replace the same number condemned:

- 1 Box ear.
- 16 Platform cars.
- 1 Diamond flanger.

The Diamond flanger was rebuilt from a platform car.

2 Platform cars were changed to pulpwood cars.

741 Box cars were fitted with side ladders.

53 freight cars, 13 snow ploughs and 5 flangers were fitted with air brakes, and 153 freight cars were fitted with straight air.

I have the honour to be, sir.

Your obedient servant.

(Signed) J. J. WALKER,

G, R. Joughins, Esq.,

Mechanical Accountant.

Superintendent of Motive Power, I.C.R.,

Moneton, N.B.

INTERCOLONIAL RAILWAY.

STATEMENT Showing the number of Locomotives and the different classes of Rolling Stock on the line on March 31, 1909. and March 31, 1910.

1 GEORGE V., A. 1911 : | : | Well Boring Car. 01 ¢1 CZ Ballast Plough Cars. 27 118 15 Steam Cranes. 4 Total Ploughs and Flangers. 61 9 Flangers. Double End Ploughs. **\$1** 01 | 01 Double Track Ploughs. 23 0.3 23 Rotary Steam Ploughs. 116 12,803 52 20 3 329 1 Wing Ploughs. 119 13,132 53 20 Common Snow Plonghs. 119 12,970 53 36 182 Total Cars. Vans. 200 23 653 200 23 Auxiliary Cars. 200 Convertible Dump Cars. 148 00 148 Stock Cars. 100 25 130 Steel Side Dump Cars (coal), #8 12 17.1 हा Coal Cars (20-ton). 25-1,046 17 Gondola Cars (coal). 1,199 1 1,130 Hopper Cars. 50.40 40 3,075 50 40 Oil Tank Cars. 3,058 52 Pulpwood Cars. 3,034 Ç7 7 Platform Cars. 1 14 Refrigerator Cars. 7,096 6,931 7,095 165 Box Cars. 7 Ť Steam Motor Cars. Air Brake Instruction Car. : 1 9 Box Baggage Cars. 9 135 99 34 65 Baggage Cars. 132 93 33 65 138 99 34 65 9 Postal Cars. 2nd Class Passenger Cars. 1st Class Passenger Cars. Total equipment on Mar. 31, '10 414 41 50 912 Ç, 5. 3 Dining Cars. Ç Parlour Cars. 00 409 41 48 ÷Ι 2nd Class Sleeping Cars. 1st Class Sleeping Oars. 10 Locomotives. Total equipment on Mar. 31, '09 form to flanger...Transferred from first class to 29 20-ton coal cars = 1,500 form to pulpwood.....Changed in the shops from plat-Deduct 153 6-ton hoppers and Purchased during the year on Purchased during the year on Changed in the shops from plat-Transferred from platform to Transferred from box to well Capacity replaced by 30 50-ton steel side dump cars the same capacity on reas above.... On hand serviceable and repair renewals account.... capital account, nil. newals account, dining ... flanger . boring

SE	SS	ION	ΑI	PAPE	R No	20

1310	NAL	PAI	PER	No. 2	:0
:	1:	:	:	:≓	] -
	i :	:		: 61	01
				- 10	
•	1			1	1 00
		:	:	=	118
:	<u> </u>	· :	-:	<del>† ∵≘</del>	1 9
	<del> </del>			1	1 7
<del></del>	<del>                                     </del>			1 :21	61
<del></del>	<u> </u>	· ·		- 63	03
- :	1 .	· ·	_ <u>:</u>	1 .0	R
- :	<del>  -</del>		•	1 - 67	1 63
	130	or.		1 20	53
31	15	7	188	44	12,970
21	1 5	:	-:	5 4	119 11
	<u> </u>	:	:		1
•		•		1 . 61	83
:	:	:	:		200
-	4		:		148
:	:	:	:	130	130
	83	:			777
:	<u> </u>	:			1 2
33	27		65	<u> </u>	
118	56		15	66	1,046 17
:	:	:	:	:04	9-
:	:	:	:	:52	22
34	75	-		80	8
				3,0,8	3,058 52 40
_:	1	:	:	143	144
133	298	1	:	297 798	7,095
				6,	t-
1		<u>.                                    </u>	- :	: "	-T
		-	- :		
		<u>:</u>	: 1	.9	9
		<u> </u>		7.22	65
	2.1	:	_ :	21 83	35
_:!	<u> </u>	<u>:</u>	: 1	<u> မ</u> ဗ္ဗ ၂	66
c.1	00	:		127	135
: 1	:	:	-:	:23	12
i	:	-:-	: 1	6	9 12
- i	ಣ	: -	: 1	200	
-	-	:	:	T 0 1	41 50
9	Ξ			- mg	<del></del>
		:	:	40	41
ing the present year, 1909-10.	Total condemned and destroyed. Replaced during the year 1909-	1910 eplaced by 30 50-ton steel	above	o be replaced on Mar. 31, 1910 dd serviceable and repairing.	Total equipment on Mar. 31, 1910, as above
	<u>6 1 1 2 1 1</u>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11     1     2     1     1     2     1     1     2     1     1     2     1     1     2     1     1     2     1     1     2     1 </td <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Moncton, N.B., March 31, 1910.

J. J. WALKER, Mechanical Accountant.

# INTERCOLONIAL RAILWAY.

STATEMENT of Mileage and Coal, Oil, Grease and Wool Waste consumed by Locomotives for year ended March 31, 1910.

	ive 3.	Consumption.				Average Consumption per 100 Miles.					
Months.	Locomotive Mileage.	Tons of Coal.	Pints of Valve Oil.	Pints of Engine Oil.	Pounds of Grease.	Pounds of Wool Waste	Pounds Coal.	Pints of Valve Oil.	Pints of   Engine Oil.	Pounds of Grease.	Monda Waste 111
April	729,866 665,177 666,444 738,978 688,738 726,528 736,994 765,676	42,233 35,362 32,917 36,180 32,781 35,611 39,213 42,829 46,849	10,042 8,967 8,960 9,570 9,144 9,294 9,573 10,047 10,512	20,953 19,022 19,535 20,664 19,340 19,386 20,060 20,075 21,401	2,183 2,057 2,406 2,193 2,609 1,961 2,281 2,160 1,984	549 973 697 757 580 533 1,020 470 617	12,962 11,910 11,064 10,967 10,661 11,413 12,090 13,017 13,706	1,38 1,35 1,31 1,30 1,33 1,33 1,32 1,36 1,37	2.87 2.86 2.93 2.80 2.81 2.77 2.76 2.72 2.80	.30 .31 .36 .30 .38 .28 .31 .29	.15 .10 .10 .09 .08 .14 .06
January February March Totals	$\begin{array}{r} 727.778 \\ 686,791 \\ 776,568 \\ \hline 8,608,486 \end{array}$	44,817 43,445 46,276 478,513	10,088 9,593 10,343 116,133	$ \begin{array}{r} 19,642 \\ 19,539 \\ 22,011 \\ \hline 241,628 \end{array} $	$ \begin{array}{r} 2,013 \\ 2,342 \\ 2,508 \\ \hline 26,697 \end{array} $	453 779 836 8,264	13,794 14,170 13,348 12,451	$ \begin{array}{r} 1.39 \\ 1.40 \\ 1.33 \\ \hline 1.35 \end{array} $	2.84 2.83	.34	.11

J. J. WALKER,

Mechanical Accountant.

Moncton, N.B., March 31, 1910.

The following is a report of the work done in the locomotive department at Moncton during the year:—

# Erecting shop-

- 24 locomotives were partly rebuilt.
- 59 locomotives received general repairs.
- 10 locomotives received heavy repairs.
- 121 locomotives received light repairs.
  - 2 locomotives were converted from compound to simple cylinder.

# Boiler shop-

- 42 side sheets were made.
- 39 tube sheets were made.
- 15 door slieets were made.
- 61 fire boxes were patched.
- 2 fire boxes were made.
- 23,899 tubes were applied.
- 2,183 new tubes were made.
- 22,777 tubes were pieced.
  - 86 boilers were tested.

1 water scrvice boiler was repaired.

187 smoke stacks were made.

24 ash pans were made.

61 ash pans were repaired.

60 ash pan sides were made.

41 front ends were made and 13 were repaired.

55 Sterlingworth trucks were repaired.

25,090 stay bolts were applied.

98 tender trucks were repaired.

51 smoke stacks and bonnets were made.

24 tanks were made.

25 coal buckets were made.

10 driving wheels were rivetted.

500 chain links were made.

25 shovelling plates were made.

47 tender frames were repaired.

S cabs were repaired.

1 engine cab was rebuilt.

4 tenders were rebuilt.

4 snow ploughs were ironed.

6 coal chutes were made.

4 truck bolsters were rebuilt.

60,405 new copper ferrules were made.

# Blacksmith shop-

The following was the output of this shop:-

1,781,788 lbs. iron forgings, including 642,933 lbs. bolts. 630,036 lbs. steel forgings.

# Brass foundry-

The following was the output of this shop:-

350,510 lbs. bearings.

64.610 lbs. brass casting.

13,568 lbs. babbitt.

32,012 lbs. antimonial lead.

622 lbs. metallic packing.

## Pattern shop—

The following patterns were made and repaired:

299 for cast iron.

109 for steel and malleable.

455 for brass castings.

45 repaired for cast iron.

63 repaired for steel and malleable.

129 repaired for brass castings.

37 altered for cast iron.

8 altered for steel castings.

7 altered for brass castings.

# Machine shop-

163 driving tires were applied.

19 driving axles were applied.

7 trailing tires were turned off, and 2 applied.

1,868 car tires were turned off, 588 bored and 419 applied.

347 driving tires were turned off.

287 engine truck tires were turned off and 241 bored and applied.

20-9

902 tender truck tires were turned off and 414 bored and applied.

84 tender axles were applied.

14 engine truck axles were applied.

3 driving wheels were centred and machined.

100 hose bag springs were made.

4,000 engine bolts and studs were made.

21,540 lbs. nuts were faced.

7,079 turned bolts were threaded.

17,000 stay bolts were threaded.

672.694 other bolts were threaded.

271.250 lbs. nuts were tapped.

6,800 lbs. nuts were retapped.

800 rings of pistons packing were made.

17,195 engine studs were turned.

15 crank pins were made.

6,000 patch bolts were made.

2 steam chests were made.

2 false valve faces and 6 piston rods were made.

7 pistons were made.

3 cylinder heads were made.

7 guide bars and blocks were made.

11 cylinders and half saddles were made.

16 smoke box doors and rings were made.

2 locomotive bells were made.

46 tender wheels and 8 engine truck wheels were applied to axles.

In addition to the above a large amount of work was done in repairing and making articles such as crossheads, smoke stacks and bases, yokes for trailer trucks, retorts, cheek plates, &c.

A large amount of work was done in connection with repairs to the motor car engines, and also to shop machinery.

# Motion Shop-

166 knuckle joints were bored and applied.

612 knuckle joint nuts and washers were made and machined.

231 knuckle joint pins were made, and 24 pins and bushes applied.

490 driving boxes were bored and fitted to journals.

8 driving boxes were made and 450 were planed.

10 pump cylinders and 4 air cylinders were bored.

276 eccentric straps and pulleys were repaired.

112 link pins and bushes were renewed.

4 link boxes were made and applied.

258 eccentric rods were repaired.

42 slide valves were made and 34 faced.

164 other valves were repaired.

127 valve yokes were fitted and 26 were machined.

25 piston rods were repaired and 59 fitted to crossheads.

126 side rod bushes were bored.

273 big end bolts were applied.

178 small end brasses were applied.

149 big end brasses were made and applied.

108 driving box brasses were relined.

62 old brasses were lined.

235 new brasses were machined and applied.

52 main rod brasses were made and 19 refitted.

- 132 main rod liners were applied and 152 bolts were made.
- 411 cheek plates were made and applied.
- 336 crank pins were repaired.
- 26 crank pin washers and 263 nuts were made.
- 46 crosshead pins were applied.
- 214 side rods were repaired.
- 526 side rod brasses were made and applied.
- 109 reverse shaft bushes were repaired and 10 fitted to journals.
  - 8 throttle glands and 96 lever stems were repaired.
- 125 crossheads were rebabbited and planed.
  - 60 crosshead nuts were made and 83 keys and pins applied.
    - 9 rocker arms were made and 144 rebushed and applied.
  - 69 rocker box bushes were made and applied.
- 36 main rods and 38 links were repaired.
- 129 eccentric straps were fitted to pulleys.
  - 4 link blocks were made and 48 repaired.
- 36 reverse levers were repaired.
- 26 valve stem packing rings were made.
- 11 piston rings were bored and applied.
- 10 big end liners were planed.
- 98 main rod keys were made and applied.
  - 1 crosshead was made.
- 82 main rod bolts were renewed.

# Brass Turning Shop-

- 72 steam chest nipples were made.
- 150 injectors were repaired and 36 injector cheek valves were made.
  - 20 air pumps were repaired.
  - 24 bell ringers were made.
- 24 try cocks and 24 gauge glass cocks were made.
- 200 cylinder cocks were made.
- 72 small tender cocks and 18 blow-off cocks were made.
- 48 large tender cocks were made.
- 250 flag staff casings were made.
- 300 engine truck brasses were made.
- 150 brake eam serews and nuts were made.
- 800 piston rod oil cups were made.
- 24 steam chest release valves were made.
- 100 oil cups were made.
- 130 wheel defect gauges were made.
- 300 beading tools and 100 reamers were made.
- 550 steam gauges were repaired.
- 170 jacks were repaired.
- 300 taps were made.
  - 50 sets tubes and 40 sets dies were made.
  - 20 tube cutters were repaired.
  - 60 clectric headlights were repaired.

In addition to the above a large number of lubricators and regulators, air pumps and governors, brake and air cylinders, and boiler mountings received extensive repairs.

# Tender Shop-

- 55 locomotive pilots and 5 cabs were made.
- 2,144 sledge hammer, 79 monkey wrench and 762 hammer and chisel handles were made.

1

1 GEORGE V., A. 1911

- 32 brakemen's seats and cushions were made.
  - 3 tenders were enlarged.
  - 300 pump stays were made.
    - 8 tender truck frames were repaired, and 7 tender trucks repaired.
  - 10 tenders received light and 85 heavy repairs.
  - 36 cabs were repaired.
  - 10 tender frames were repaired.
  - 16 bolsters were made.
  - 3 complete tenders were made.
  - 4 wheelbarrows, 7 hand carts and 3 trolleys were made.
  - 66 wheelbarrows, hand carts and hand trucks were repaired.
  - 189 running boards were made.
  - 66 buffer beams were made.
  - 114 headlight stands were made.
    - 12 spring boards were made and applied.
    - 23 brake beams were made.
    - 55 tool, 36 drivers' outfit and 20 tender outfit boxes were made.
    - 66 switch lamp bottoms were made.
  - 507 shipping boxes were made.
    - 31 aprons were made and applied.
  - 175 cab curtains were made.
  - 112 cushion boxes were made and 74 repaired.

# Tin and Copper shop-

- 12,556 W. A. B. hosc couplings were fitted to new hose.
- 5,188 signal and steam couplings were fitted to new hose.
- 18,622 bushes were lined.
  - 23 tank pipes were made and 56 repaired.
  - 142 tail lamps were repaired.
  - 409 switch and 87 signal lamps were repaired.
  - 128 oil cans and 119 oilers were repaired.
  - 11 oil tanks were repaired.
  - 219 headlights were repaired.
  - 1,087 feet galvanizer pipe were fitted and applied.
    - 622 sets metallic packing were made.
- 8,016 steam and air brake hose and couplings were repaired.
  - 300 sets valve stem packing were made.
- 1,206 tin oil cup covers were made.
  - 127 water cans were made.
  - 10 steam gauge and 14 water gauge lamps were repaired.
  - 135 hand lamps were made.
    - 40 lamp fonts were made.

Steam and Westinghouse air brake pipes were repaired on 82 locomotives.

A great deal of work was done in repairing and remodelling the plumbing work in the following buildings: Yard office, freight shed, rest room, Moncton shops, car cleaning building and outside station.

At Norton station the heating boiler was given extensive repairs and was enlarged.

Repairs were made to wash stands, taps, ventilators, water closets, brass work and piping, &c., in the passenger cars repaired in the car department during the year.

Repairing and altering copper pipes, pumps, heater and blower-pipes, copper piping on locomotives, also repairs to all iron and air pipes, &c., and lagging was taken off, repaired and replaced on 82 locomotives.

#### Water service-

This service has been maintained in efficient condition over the whole line.

#### Car shops-

The following cars were rebuilt:—
17 platform, 1 box.

The following cars were changed:-

2 platform to pulpwood, 1 platform to flanger.

The following cars received heavy repairs:-

6 parlour, 34 sleeping, 4 dining, 2 official, 79 first-class, 56 second-class, 29 colonist, 43 baggage, 15 postal, 15 vans, 302 freight, 2 flangers, 8 snow-ploughs.

The following cars received light repairs:-

2 parlour, 18 sleeping, 6 dining, 12 official, 45 first-class, 25 second-class, 15 colonist, 34 baggage, 20 postal, 3 vans, 2 auxiliary, 10,541 freight.

The following cars were burnt off, painted and varnished:-

2 parlour, 3 sleeping, 2 dining, 28 first-class, 4 second-class, 5 colonist, 4 baggage, 4 postal.

The following cars were painted and varnished:-

2 parlour, 7 sleeping, 1 dining, 28 first-class, 33 second-class, 8 colonist, 17 baggage, 6 postal.

The following cars were cleaned and varnished:-

2 parlour, 16 sleeping, 1 official, 29 first-class, 13 second-class, 4 colonist, 12 baggage, 6 postal, 2 motor cars.

The following cars were scraped, painted and varnished:—

2 parlour, 6 sleeping, 1 dining, 7 first-class, 7 second-class, 9 colouist, 10 baggage, 3 postal.

The following cars were cleaned, touched up and varnished:—

3 sleeping, 1 official, 3 first-class, 2 second-class, 3 colonist.

The following cars were painted and lettered:-

145 box, 121 platform, 19 gondolas, 5 hoppers, 2 flangers, 2 snow ploughs.

223 cars were reweighed and lettered.

462 cars had lettering changed from I.C.R. to I.R.C.

5,376 new chilled wheels were bored and pressed on axles.

3,140 second hand chilled wheels were bored and pressed on axles.

116 new steel wheels were bored and pressed on axles.

503 second-hand steel wheels were bored and pressed on axles,

1.600 steel tires were turned.

716 new axles were turned.

3,815 second hand axles were turned.

9.700 wheels were taken off axles.

117 engines and tenders were painted, lettered and varnished.

3 tenders were painted, lettered and varnished.

153 freight cars were fitted with straight air.

71 freight cars, ploughs and flangers were fitted with air brakes.

783 car buffers were made.

973 brake beams were made.

3 shanty cars were fitted up and painted.

596 freight cars were fitted with Acme uncoupling device.

5 Hart convertible cars had sides and ends raised.

200 new wooden freight car trucks were built and applied.

S locomotive pilots were made.

180 truck spring boards were made.

345 new truck bolsters were made.

551 new truck sides were made.

1,098 car draft timbers were made.

923 engine curtains were made.

24 baggage and 104 freight trucks were repaired.

16 footboards and 2 gangways were repaired.

S train safes were repaired.

A large amount of work was done during the year repairing ticket cases, book and letter cases. desks and chairs, tool boxes, step ladders, office doors and locks, replacing broken glass. &c., &c.

In addition to the lumber prepared for repairs, &c., 2,757,174 feet were milled on store orders.

Eight hundred and seventy-six manufactures orders were completed and delivered to store.

In addition to the above numerous small articles were made and repaired for this department at Moncton, and a great deal of work was done for the maintenance and traffic departments, and also in connection with new capital work.

The following special work was done at the new shops:-

A water crane was installed at the south end of the erecting shop.

An air hoist was installed at the gas plant.

A crane was installed for removing coke and ashes from the gas plant.

An air reservoir was installed in the basement of the gas plant.

An air pump was installed in the gas plant.

A chain hoist for lifting coal was installed.

A generator was installed in the power house.

An engine was installed for the stokers.

Two Babcock and Wilcox boilers were removed from the old shops, were given extensive repairs, and were installed in the new power house.

All the piping in the new shops for heating purposes was completed.

In addition to the above a large amount of work was done in connection with the fitting up the new shops before and after moving into them, installing machinery, making bins, boxes, tool racks, cupboards, building iron racks, coal sheds, small offices, sidewalks. &c., &c.

The following new machines were set up in the Moneton new shops:—

# Machine Shop-

1 car axle lathe.

1 wheel press for locomotive wheels.

1 box press.

2 tool grinders.

10 high speed lathes of various sizes.

1 nut facing machine.

2 grinder heads for general work.

1 stay bolt machine.

1 nut tapper.

1 drill for general use.

1 boring mill.

- 3 shapers.
- 3 drill presses.
- 1 locomotive axle lathe.
- 1 sottel for general use.
- 1 car wheel press.
- 1 ear whicel borer.
- 1 cylinder borer.
- 1 radial drill.
- 1 locomotive rod drilling machine.
- 1 vertical milling machine for rods.
- I horizontal borer.
- 1 twist drill grinder for tools.
- 1 grinder.

# Erecting Shop-

- 1 pipe threader.
- 1 32-inch drill for general use.
- 1 pipe bender.
- 2 bolt lathes.
- 1 tool grinder.

# Boiler Shop-

- 1 slitting shear for general shearing.
- 1 shear for light sheets.
- 1 tool grinder.
- 1 flue cleaning machine.
- 1 6-spindle drill for flue sheets and mud rings.
- 1 plate clamp.
- 1 drill press for general use.
- 1 hydraulie sectional flange press.
- 1 punch.

# Motion Shop-

- 2 tool room lathes for tool grinding and repairing.
- 2 power hack saws for general use.
- 1 grinder head for general use.
- 1 high speed lathe for general use.
- 2 bolt lathes for general usc.
- 2 grinders for rods.
- 2 drill press.
- 3 shapers for keys, liners, &c.
- 1 universal tool grinder.
- 1 point twist drill grinder for tools.
- 1 side carriage lathe.
- 1 link grinder.

# Tin and Copper Shop-

- 1 punch.
- 1 pipe threader.
- 1 circle and slitting shear.

#### Blacksmith Shop-

- 1 spring bending and stripping machine.
- 1 bolt shear.
- 1 tool grinder.

- 1 line file cutter.
- 1 stripping and abrading machine.
- 1 whetting machine.
- 1 grindstone.
- 1 nut machine.
- 2 blast fans for forge fires.
- 1 smoke exhaust fan for forge fires.

#### Pattern Shop-

- 1 grinder head for general use.
- 1 hand plainer and joiner for patterns.
- 1 saw beneh.
- 1 lathe for patterns.
- 1 motor head speed lathe.
- 1 double disc sander for patterns.
- 1 emery grinder for tools.
- 1 band saw and re-saw for pattern.
- 1 core box machine.
- 1 single surfacer.
- 1 scroll saw.

# Freight Car Shop-

- 1 drill press for general use.
- 1 pipe threader.

# Tender Shop-

- 1 drill press for general use.
- 1 grindstone.

# Upholstering Shop-

1 single sweeper vacuum cleaner.

#### Cabinet Shop-

- 1 moulder.
- 1 lathe.
- 1 band saw.
- 1 dado and saw.
- 1 emery grinder.
- 1 grindstone frame.
- 1 hand gainer machine.
- 1 moulder for door panels, &c.
- 1 embosser for moulding.
- 1 rip saw, 20-inch, for general use.

#### Planing Mill-

- 1 large tenoner for general use.
- 1 medium borer for general use.
- 1 grindstone frame for tools.

The following regular work was done in the locomotive department at Richmond:-

- 7 locomotives received heavy and 175 specific repairs.
- 24 boilers were tested.
- 3 fire-boxes were patched.
- 1 set driving wheels were re-tired.
- 3 driving tires were turned off.

18 engine truck tires were turned off.

129 tender truck and ear tires were turned off.

9 new tender truck wheels were applied.

11,880 bolts were forged.

28,200 bolts were serewed.

1,285 studs were serewed.

6 engines and tenders were painted.

221 sets metallic piston rod packing were made.

224 sets metallic valve stem packing were made.

In the ear repair shop a large number of cars received repairs during the year.

A lot of special work was also done in the locomotive and ear shops for the maintenance and traffic departments.

The following regular work was done in the locometive department at Rivière iu Loup:—

20 locomotives received general, 6 medium and 25 specific repairs.

1 new tube sheet and 1 new side sheet were applied.

44 new tubes were applied.

4,707 tubes were pieced and applied.

7 fireboxes were patched.

71 boilers were tested.

· 81 driving tires were turned off.

59 engine truck tires were turned off.

160 tender truck tires were turned off.

2 new cylinders with half saddles were applied.

1 new crank pin was made and applied.

23 pilots were made and applied.

8,000 bolts were forged.

38,000 bolts were screwed.

2,400 studs were screwed.

900 lbs. nuts were tapped.

35 engines and tenders were painted.

34,000 lbs. brass casting were machined.

345 sets metallic piston rod packing were made.

333 sets metallic valve stem packing were made.

66,000 lbs. iron forgings were made.

Coal cranes, Nos. 6, 8, 9 and 10, received general repairs.

A large number of cars received light repairs during the year.

There was also a large amount of work done for the maintenance and traffic tepartments in the locomotive and car shops during the year.

# No. 1.—INTERCOLONIAL RAILWAY.

1, 1910.
31,
March
ended
year
Account,
CAPITAL

cts.	8
96	
	30,994,664 06
	<del>*</del>
	:
Ck.	na da
Ö	f Ca
	0 <b>6</b>
	in in
	<u> </u>
	<u>g</u>
.60	Mar. 31 By Dominion of Canada.
1509.	Har.
cts.	90,994,664 06
Œ,	9 ** **
	5.0 6
cts.	[6, 272 26 [6, 272 26 [6, 430 54 [6, 430 54 [6, 430 54 [1, 430 54 [6, 83 46] [1, 988 49 [8, 947 65 [8, 947 16 [8, 95 65 [8, 95 65 [8, 95 65 [8, 95 65 [8, 95 65 [8, 95 88 [8, 95 88 [8, 95 88 [8, 95 88 [8, 95 88 [8, 95 88 [8, 95 88 [9, 95 88 [9, 95 88 [9, 95 88 [9, 95 88 [9, 95 88 [9, 95 98 [9, 95 98 [
¥?	10,272 26 49,994 90 10,430 54 10,430 54 10,430 54 10,430 54 10,988 49 39,400 49 88,977 65 17,019 51 17,019
	Railway to date.  In dividention and Black- tion at Halifax.  Ine shops, &c., at Rivière haudière Junction mpbellton shop with equipment and at Moncton king parts of line thin at Truro.  Sydney Mines to River Chatham and branch to occonctive and car shops.  Int Tupper Sydney Algrave digrave digrave digrave digrave digrave station.  Sydney  Algrave digrave crossing at Roberts about specialle ckville crossing at Roberts about and ordery station.  Algrave digravelle crossing at Roberts about specialle ckville crossing at Roberts about specialle ckville crossing at Roberts about and ordery station.  An
	nnd
	date  flax.  flax.  flax.  notice  flax.  fl
	which the state of
	n Indianto to no Indianto to no Indianto tion at Hala tion at Hala mipbellion shops, haudiere Ju mipbellion at Moncton king parts of the at Moncton at Truwescastle is wharf lation and int Tupper. I Sydney N Chatham occoncive a coconcive a to a ligrave tion at Pict gggieville cocondonatery and occoncive a to a lation at Sydney M I condondery lation at St. Correspond at Sydney orth Sydney orth Sydney orth Sydney orth Sydney orth Sydney orth Sydney as Sydney as Sydney and Sydney orth
Dr.	Rain on Line o
	mining the state of the state o
	recoke bridge of the property
	Interplement in the property of the property o
	cost of Intercolomial Railway to date Strengthen bridges.  Put railway between Indiantown and Elackville into condition for operation Increase accommodation at Hailfax Rolling stock.  Enginehouse, &c., Chaudiere Junction Improvements at Campbellton Locomotive and car shop with equipment and new freight yard at Moncton Increase accommodation at Truro Increase accommodation at Truro Improvements at Newcastle Extension to Dalhousie wharf Increased accommodation and facilities along the line Improvements at Point Tupper. Diversion of line at Sydney Mines to River George Diversion of line at Sydney Mines to River George Diversion of line at Sydney with Improvements at Mulgrave Increase accommodation at Pictou. Improvements at Loggieville Improvements at Sackville New turntables Improvements at Sackville New turntables Provide an overhead crossing at Roberts about 2 miles north of Londonderry station. Increased accommodation at Ste. Flavie Improvements at North Sydney Original construction. Cut off line at Moncton Improvements at Ste. Rosalie Diversion of road to eliminate crossing at rail- level between St. Cyrille and Drummond- ville.
	See
	<u>-</u>
1909.	Mar. 31 To cost of Intercolonial Strengthen bridges. Put railway betwee Vulle into condition wills into condition will into condition and and Loup Enginehouse, &c., C Enginehou
-	E CONTRACTOR DE LA CONT

LEXS—To extension to Sydney Mines, 1,278,467 60  LEXS—To extension to Sydney Mines, 1978,467 60  Interested accommodation at 53 25  Stellarton, 1908-9	Provide a subway crossing at Eastville, about I mile south of Londonderry station	68 75			
53 25 58 15 1,278,400 45 By Dominion of Canada	E	1,278,467 60			
53 25 58 15 1,278,409 45 By Dominion of Canada					
1,278,409 45 By Dominion of Canada92,273,073 51 9		i T			
		08 10	1,278,409 45	By Dominion of Canada	1,278,409 45
			92,273,073 51		92,273,073 51
	Moneton, N.B.			S. L. SHANNON	NO.

S. I. SHANNON, Comptroller.

#### No. 2.—INTERCOLONIAL RAILWAY.

# REVENUE ACCOUNT, Year ended March 31, 1910.

Expenditure.	\$ cts.	Earnings.	S ets.
Maintenance of Way and Structure. Maintenance of Equipment Traffic Expenses Transportation Expenses. General Expenses. Balance	1,851,792 68 179,882 61	Passenger Earnings. Freight Earnings Mail and Express Earnings. Miscellaneous Earnings	2,765,884 66 6,048,884 18 408,847 66 44,618 49

S. L. SHANNON,

Comptroller.

E. & O. E., Moncton, N.B.

#### No. 3.—INTERCOLONIAL RAILWAY.

# MAINTENANCE of Way and Structures, Year ended March 31, 1910.

_			-
		\$	cts.
Χo	1. Superintendence	49,342	18
11	2. Ballast.		
12	3. Ties		
	4. Rails.		
	5. Other track material.		
	6. Roadway and track		
11	7. Removal of snow, sand and ice.	91.124	
	9. Bridges, trestles and colverts		
12	10. Over and under grade crossings	410	
	11. Grade crossings, fences, cattle guards and signs.	37,516	
	12. Snow and sand fences, and snow sheds	9,802	
11	13. Signals and interlocking plauts	5,252	
	14. Telegraph and telephone lines	696	
11	16. Buildings, fixtures and grounds	140,304	
11	17. Docks and wharfs	21,141	
11	18. Roadway tools and supplies	22,810	
11	22. Injuries to persons.		
	23. Stationery and printing.		
11	25. Other expenses		
11	26. Maintaining joint tracks, yards and other facilities—Dr	44,161	
- 11	20. Stantishing joint tracks, yards and other facilities—Dr	44,101	10
		1,629,254	81
11	27. Maintaining joint tracks, yards and other facilities—Cr		
	,	1,622,279	75

S. L. SHANNON,

Comptroller.

E. & O. E., Moncton, N.B.

# No. 4.—INTERCOLONIAL RAILWAY.

# MAINTENANCE of Equipment, Year ended March 31, 1910.

		\$	cts.
	•		
No.	28. Superintendence	54,483	94
- 11	28. Superintendence	626,048	65
11	30. Steam Locomotives—Renewals	133,333	32
11	35. Passenger Train Cars—Repairs	271.828	78
- 11	36. Passenger Train Cars—Renewals	66,666	
- 11	38. Freight Train Cars—Repairs	1 = 483.914	60
11	39. Freight Train Cars—Renewals	100,000	
- 11	44. Floating Equipment—Repairs	4,171	
- 11	47. Shop Machinery and Tools	33,297	
	49. Inturies to Persons	401	
- 11	50. Stationery and Printing. 51. Maintaining Joint Equipment at Terminals—Dr. 52. Other Expenses.	10,183	
	51. Maintaining Joint Equipment at Terminals—Or	3,819	
- 11	52 Other Expenses	30,312	
17	53. Work Equipment—Repairs	27,204	
11	54. Work Equipment—Renewals	6,075	
11	or nork national menonals,	0,075	00
		1 951 709	60
		1,851,792	08

# S. L. SHANNON,

Comptroller.

E. & O. E., MONCTON, N.B.

# No. 5.—INTERCOLONIAL RAILWAY.

Traffic Expenses, Year ended March 31, 1910.

	\$ cts.
No. 57. Superintendence           n 58 Outside Agencies           n 59. Advertising           n 60. Stationery and Printing           n 61. Traffic Associations           n 62. Other Expenses.	24,810 58
	179,882 61

S. L. SHANNON,

Comptroller.

E. & O. E., Moncton, N.B.

# No. 6.—INTERCOLONIAL RAILWAY.

# TRANSPORTATION EXPENSES, year ended March 31, 1910.

		\$ ets.
No. 66	Superintendence	79,598 10
	Despatching trains	142,103 79
		626,729 85
69	Station employees Weighing and Car Service Associations	1,622 69
70	Stock yards and grain elevators	2,319 44
72	Station supplies and expenses	86,785 21
	Yardmasters and their clerks.	33,544 40
74	Yard conductors and brakemen	121,899 35
	Yard switch and signal tenders	12,854 37
76	Yard supplies and expenses	18,793 09
77	Yard enginemen	112,975 08
78	Enginehouse expenses—Yard	27,497 16
70	Fuel for yard locomotives	152,678 03
	Water for yard locomotives	9,608 12
01	Lubricants for yard locomotives.	3,767 49
	Other supplies for yard locomotives.	2,456 12
00 00	Operating joint yards and terminals—Dr	104,241 79
00	Operating joint yards and terminals—Dr	
80	Road enginemen	482,068 52
	Enginehouse expenses—Road.	234,189 21
88	Fuel for road locomotives	1,490,049 28
	Water for road locomotives	49,728 48
	Lubricants for yard locomotives	24,063 61
	Other supplies for road locomotives	13,465 61
	Road trainmen	629,430 57
95	Train supplies and expenses	177,702 04
	Interlockers, block and signals—Operation	13,250 71
97	Crossing flagmen and gatemen	12,717 31
98	Draw bridge operation.	3,807 06
99	Clearing wrecks. Telegraph and telephone—Operation.	16,312 51
100	Telegraph and telephone—Operation	10,547 33
101	Operating floating equipment	42,321 54
	Stationery and printing	53,491 87
105	Other expenses	21,860 58
106	Loss and damage—Freight	29,606 30
107	"—Baggage	157 84
108	Damage to property	5,613 42
109	Damage to stock on right of way	2,290 04
110	Injuries to persons	2,290 04 7,514 36
111	Operating joint tracks—Dr	11,212 38
	Cr.	4,870,874 65
No. 84	Operating joint yards and terminalsCr	86,206 89
		4,784,667 76

E. and O. E., Moncton, N.B. S. L. SHANNON,

Comptroller.

# No. 7.—INTERCOLONIAL RAILWAY.

GENERAL EXPENSES, year ended March 31, 1910.

	\$ cts.
No. 113 Salaries and expenses of general officers.	
114 Salaries and expenses of clerks and attendants	86,889 05
115 General office supplies and expenses	3,454 23
116 Law expenses	7,307 61
118 Relief department expenses	8,000 00
119 Pensions	63,313 85
120 Stationery and printing	12,214 21
121 Other expenses	5,571 65
	206,447 53

E. and O. E., Moncton, N.B. S. L. SHANNON,

Comptroller.

# No. 8,—INTERCOLONIAL RAILWAY OF CANADA. GENERAL STORES ACCOUNT, YEAR ENDED MARCH 31, 1910.

0200	TONAL CES		No. 2	1,243,181 69	4,831,431 80
	& cts.	3,363,105 44 35,618 31 189,526 36	928,804 27	314,377 42	
No. 8,—INTERCOLONIAL RAILWAY OF CANADA. General Stores Account, Year ended March 31, 1910.	CR.	1,529,094 59 By Issues during year ended March 31, 1910. Sales material, fuel, &c	Balance— Ordinary stores, including fuel	Koadway and bridge material	
COLONIAL Account,	& cts.		3,232,337 21		4,831,431 80
8.—INTERORAL STORES	es cts.	: 64	3,321 66		
No. 8 Gene	DR.	31, 1910	Stuff pay rolls.		

Comptroller and Treasurer. S. L. SHANNON, (Sgd)

Moncton, N.B.

Auditor of Disbursements, I.C.R. C. F. BURNS,

(Sgd)

No. 9.—INTERCOLONIAL RAILWAY—STATEMENTS OF THE COMPTROLLER.

General Balance, Year ended March 31, 1910.

ets:	1,534,146 92 67 21 243,673 85	3,513 50 376,959 98 150,000 00 6 943 01							0												
ets.				40 42	70 00	267 90 226 20	125 00 430 18	346 70	98 63	20 87 20 87	98 98 98 98	288 85	1,190 18	383 00	129 23	231 44	196 72	492 62	448 81	100 00	80 00
Cr.	By Dominion of Canada. Unclaimed freight. Intercolonial and Prince Edward Island Railways employees? Provident Fund	Suspense Equipment Renewal Account. Rail Renewal Account. Fraight in Pressit Account		By Individuals and Companies Ledger—Amherst Malleable fron Company	Capr Breton ky Chatham Ry	Chappell Bros J. & A. Culligan	Colonial Granite Co	I. E. Couture Department of Justice	Dubs & Co	Dominion Express Co. Dominion Bridge Co.	(i. Dumont	W. H. Duffy	Elmsdale Co	Grand Lake Lumber Co.	General Storekeeper	By L. Goodspeed & Son	Abner Gorden	J. & D. A. Harquail		J. Land	W. L. Loggie & Co.
\$ cts.	0 02 1,243,181 69 136,204 02 457,684 76	5,815 52 25,757 79 6,085 69																			
& cts.			1,213 27	13 35	1,837 39	3 17 0 70	368 18 343 10	24 87 904 68		17 73 30 16	12 12	14,083 69	4 71	11,709 11	16 82				39 68		14 66
DR.	'und Account	Auditor's Suspense Account Cash in Transit Account Commissary Stock Expenditures for Road and Equipment Suspense	To Individuals and Companies Ledger—Acadia Coal Co	A dance Coast Lines. H. & A. Allan	Atlantic and Lake Superior RyAtlanta, Birmingham and Atlantic Ry	Atchison, Topeka and Santa Fe Ry Steamshin, Amelia	Austin Linber Co.	Baltimore and Ohio Ry	Boston and Albany KyBuffalo, Rochester and Pittsburg Ry	E. Bigney	John Breakey	Brown Machine Co Caraguet Ry	Canadian Express Co	Canadian Pacific Ry. (N. B. Div.).	Charlottetown Steam Navigation Co.	Central Vermont Ry	Canada Iron Corporation	Canadian Northern Ry	Cleveland, Cincinnati, Chicago & St. Louis Ry	igo, Milwaukee and St. Faul Kv	Chicago, St. Laut, Allinea Four Smalls 117

SESSIONAL PAPER No. 20		
	13,987 26	
2888 2 - 258 2		
Jos. Locours.  Nap. Mercier. W. H. Miller J. T. Munco. W. A. McKay & Co. McKay Mining Co. Reid McManus. McLean Milling Co. Nova Scotia Steek & Coal Co. Nova Scotia Steek & Coal Co. Nova Scotia Onstruction Co. J. R. Porter N. Piche & Fris. Alphouse Priesu. Primrose Bros. David Porter Quebec Construction Co. Sessenwein Bros. James W. Smith. Shives Lumber Co. Encel Steeves B. L. Tucker. Edward Ruel. Vanderbeek & Sons. S. E. Vanghan & Co. Alexander Watson. M. Wood & Sons.	H. W. Wentzell By Individuals and Companies Ledger Suspense—Canadian Iron Corporation. General Storekeeper Fraserville Foundry H. J. Garson & Co. J. Hills & Son. Northern New Brunswick and Seaboard Airline Ry New Brunswick and Prince Edward Island Ry Portland Rolling Mills. Prince Edward Island Ry Cohn Simon & Co. Shives Lumber Co. Shives Lumber Co. Nova Scotia Steel and Coal Co. Allan Bros. & Co. Atchison, Topeka and Santa Fe Ry Bathinore and Ohito Ry. Bathinore and Ohito Ry. Boston and Maine Ry.	Carried forward
28	2	
S. Cunard & Co. T. B. Cathoun. G. S. Campbell & Co. Chicago and Alton Ry. Chicago and Alton Ry. Chicago, Rock Island Gulf Ry. Chicago, Burlington and Quincy Central Ry. of New Jersey. Chicago and Eastern Illinois Ry. Chicago and Eastern Illinois Ry. Chicago, Chicimati and Louisville Ry. Chicago, Chicimati and Louisville Ry. Chicago, Chicimati and Southern Ry. Chicago, Ludiana and Southern Ry. Chicago, Ludiana and Southern Ry. Colchester Coal and Hailway Co. Chicago, Rock Island and Pacific Ry. Chicago Great Western Ry. Corbett & Floesch. Copper Crown Co. Thomas Cote.	Frank A Cutting Co. Charleston and Western Carolina Ry Canada Foundry Co. Canada Foundry Co. Canada Foundry Co. Dominon Tar and Chemical Co. Department of Justice Department of Marine and Fisheries Department of Marine and Fisheries Dominion Adantic Ry Dominion Adantic Ry Dominion From and Steel Co. Dominion From and Steel Co. Delaware and Hudson Co. Delaware Lackawana and Western Ry Duluth, South Shore and Atlantic Ry Department of Interior. Department of Interior. Department of Interior. Department of Rallways and Canals (stores acc.,) Detroit. Toleda and Ironton Ry Detroit and Poleda Shore Interior.	Carried forward.

To

No. 9.—INTERCOLONIAL RAILWAY—Continued.

GENERAL BALANCE, YEAR ENDED MARCH 31, 1910—Continued.

																	1 (	GEC	RO	E'	٧.,	Α.	1911
cts.	:																						22 23
66																							22,162 75
cts.	:	79 73 68 26	222	**************************************					814 99	1 20						5 19 	9 5 9 5 9 8	19 14		 23 13 		34.5	2 14
Up	:	1,07	642	1,02					8	Ľ-	841	1,303		224	•	6,465	1,146	51.5	549	250 250	4.3	244	2
Cn.	Brought forward	Canadian Northern Ry. Charlottetown Steam Navigation Co.	Chicago and Aton Ry. Chicago, Burlington and Quincy Ry. Chicago, Earlington Ry.	Chicago North Western Ry					Chicago, Milwankee and St. Paul Ry	RyRy	Duluth, South Shore and Atlantic Ry	Fraserville Navigation Co.	Interprovincial Navigation Co	Inverness Ry. & Coal Co. Lehigh Valley Ry	Lotbinière and Megantic Ry	Maine Central Ry.	Minneapolis, St. Paul and S. S. Marie Ry	New England Navigation Co.	New York, New Haven and Hartford Ry	Pennsylvania Ry	Southern Pacific Ry	Temiskaming and Northern Ontario Ry.	Wabash Ky
ets.	:																						==
S.																							
	:																						_
cts.		9 91 0 02 0 02	58.8 75.8	125 31 16 63	1 6 25	5 60 5 4	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10,835 41	25 S 1985			19 42 38 75		8 2 30 2 30 2 30 2		132 00	8 8 8 8 8			11 12 13 13 13 13 13 13 13 13 13 13 13 13 13	1 16	. 62 E	28 88 88
G <sub>2</sub>			1.2	1,2		7	_	10,83	1205	= -	ಪ್ರಾ ಕ	-, ç.	111,096	1.500	<u></u> 53 /	22	ALJ [~	61	-	~ · · ·	0	5 67 E	~
DR.	Brought forward	Doud Stock Car Co	Daveluy Daveluy Battion  Right and Havelock Ry	Erie Ry Estern Township Co.	Evansville and Terre Haute Ry.	Captain J. A. Farquhar. Furness, Withy & Co	Freight Claim Agent. Fraserville Navigation Co.	Grand Trunk Ry. Great Northern Ry. of Canada	O. Gurett & Son.	H. J. Carson & Co.	Graham & Co.	Grand Trunk Rv. Suspense	Halifax and South Western Ry.	Hampton and St. Martins Ky. Halifax Station Labour	J. Hillis & Sons.	W. Hood & Son	Humphrey's Glass Works. A. J. Hart.	Inverness Ry. & Coal Co.	Illinois Central Ry	Imperial Oil Co. Intercolonial and Great Northern Ry	Iowa Central Ry.	Kanawha and Michigan Ry.	Nemedy & McDonald Lotbinicre and Megantic Ry

NO. 9.—INTERCOLONIAL RAILWAY—Continued.

GENERAL BALANCE, YEAR ENDED MARCH 31, 1910—Continued.

	r deonde v., A.	
:		
:		
:		
<u> </u>		
:		
:		
:		
Brought forward		
- ,-		
:		
:		
:		38
	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	18 21
<u>:</u>		: : :
Brought forward		Reid Wrecking Co Swift Refrigerator Line
	Brought forward	Touris Ry.  105 60  10

SESSIONAL PAPER No. 20		
		ard
		.Carried forward
		arried
		C
		=
482, 985 04		
\$4.50 Per 1997 Per 19		:
288888888888888888888888888888888888888	04 04 04	
2.500	58 0 81	
•		
	nse :-	
Per By Charles	Suspe	
k k ky Sy. Sy. Sy. Sy. Doenix noissic missic ti t Co. d f Paci f t Co.	dger n Ry	
Line  Job.  rvey Ry  dirondack Ry  Francisco Ry  Vestern Ry.  ion  rator Despatch  rator Despatch  rator Despatch  jo & Paper Co  Ry. Commissi  rk Co  Ry. Commissi  rk Co  transit Co  elegraph Co  transit Co  elegraph Co  transit Co  transit Co  elegraph Co  transit Co  transit Co  elegraph Co  transit Co  transit Co  transit Co  transit Co  elegraph Co  transit Co  transit Co  elegraph Co  transit	y	Carried forward
he Lo.  Adire  Inc.  Berre  Bayes  Ba	ntic R	l forw
te Tanamar I. Manamar	Atlanumk Bunk Bund So	arried
Sherbrooke Tank Line Sydney Cement Co. Sydney Cement Co. Southern Ry Southern Ry Southern Ry Sabbaard Air Line St. Louis & San Francisco Ry St. Louis & South Western Ry. Silliker Car Co. St. Aonig station Santa Fe Refrigerator Despatch. J. B. Sangster. J. Willard Smith. Saydney & Glace Bay Ry Shywey & Haesic Ry Texas x Bation Labour. Santa Fe Prescott and Phoenix Ry Texas x Pacific Ry Toronto, Hamilton & Buffalo Ry Trons Yistoles Pulp & Paper Co. Transcontinental Ry. Commissioners. William Thomson & Co. D. Tremblay. S. M. Tweedie Uncourt Construction Co. Vandalia Line Union Refrigerator Transit Co. Vicksburg, Shreveport and Pacific Ry Union Pacific Ry. Union Pacific Ry. Union Pacific Ry. Western Union Telegraph Co. K. Wullberg. Washington Country Ry. Wheeling and Lake Erie Ry. Wheeling and Lake Sorie	Individuals and Companies Ledger Suspense:— Dominion Atlantic Ry. Grand Trunk Ry. Halifax and South Western Ry.	0
	dividt Dou Grat Hali	
To To	In	

No. 9.—INTERCOLONIAL RAILWAY—Continued.

GENERAL BALANCE, YEAR ENDED MARCH 31, 1910-Continued

	cts.	:					
	6F2						
		•		<del></del>			
)	cts.	:					
1	99	:					
		:					
	Ch.	Brought forward					•
	න්	<u>:</u>	3	ğ		<del></del>	
	cts.		r c		ì	80	
	Œ	:			:	7	
	cts.		0 88 0 62 0 88 0 78 0 78	24 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	86 12 25 01 8 13 25 01	40800001140 80808588058	50 25 25 25 25 25 25 25 25 25 25 25 25 25
	(F)		723 1 0 0	1,469 7,732 44 44	18, 0,76 5 2,181 8,846 2,938	133.00	53 9 50 1 1,478
		:		h	-		
	DB	Brought forward	Montreal Locomotive and Machine Co McLean, Holt & Co. New Brunswick Docks and Terminals Co. Temiscounta Ry. International Ry. Pullman Car Co.	To Traffic Ledger: H. & A. Allan J. & A. Allan Canadian Pacific Ry Dominion Steamship Line	Grand Trunk Ry. Lake-Shore and Michigan Southern Ry. New York, New Haven and Hartford Ry. Reid-Newfoundland Ry.	Car Service Ledger:— Albany and Hudson Ry. Buffalo and Susquehanna Ry. Brockville, Westford and Northwestern Ry. Chicago, Peoria and St. Lonis Ry. Chicago, Cincimnati and Louisville Ry. Carolma Valley Ky. Dublin and Savannah Ry. Frie Ry. Frie Ry. Frieh, Smith and Western Ry. Genesee and Wyoming Ry. Genesee and Wyoming Ry.	To Greenwich and Johnsonville Ry.  Irondale, Bancroft and Ottawa Ry. Mississippi Central Ry. Minneapolis and St. Louis Ry. Never Valley Ry. New York and Pennsylvania Ry. New York, Philadelphia and Norfolk Ry. New York, New Haven and Hartford Ry.

				•	ard
		•			Carried forward
	06 8888 8888 8688 8688 8688 8688 8688 8				
200 00 00 00 00 00 00 00 00 00 00 00 00	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	######################################	113 8 32 32 32 32 32 32 32 32 32 32 32 32 32	200 200 200 200 200 200 200 200 200 200	
Norwood and Lawrence Ry. Quebec and Lake St. John Ry. Quebec Ry. Light and Power Co Rariton River Ry. Rapid River Ry. St. Louis, Wakins and Gulf Ry. Toledo Terminal Ry. Toledo Terminal Ry. Toledo Terminal Ry. White River Ry.	By Rents Ledger: J. St. McLeod J. St. McLeod Theo. Boucher J. J. Irvine. E. D. McGrath Reid Newfoundland Ry. W. A. Clarke P. Pichette. Canadian Pacific Ry. Post Office Det.	Western Union Telegraph Co. Douglas Hannah James Mulroney Duncan Medene. E. Thompson C. Villeux N. Lamontagne Misses Camire	Mrs. L. Roberge. James Cloutier. Geo. Cloutier. A. Begin. Jean Lamothe Louis Boisvert. Emile St. Laurent Peter Bernier.	To David Koulean.  To Dame C. W. Carrier. Olivier Gingras. Arthur Lamontagne. J. N. Betartc. J. D. Dennings E. J. Smith J. A. R. Wier. Mrs. Agnes Weir. Thomas Sharpe.	Carried Forward

No. 9.—INTERCOLONIAL RAILWAY—Continued.

GENERAL BALANCE, YEAR ENDED MARCH 31, 1910 -- Concluded.

<i>(</i> 1		1 GEORGE V., A. 1911
& cts.		
& ct8.		
C.R.	Brought forward	
& cts.		
es cts.	+ 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0	70000000000000000000000000000000000000
DR.	Brought forward  Mrs. D. McLean. E. S. Vye. A. B. Copp. F. J. Smith J. McDonaid John R. Stewart William Plummer D. S. Harper Patrick McCourt. D. S. Harper Patrick McCourt. Adam Mahur Geo. Marn Benj. Smith Geo. Lowett. Municipality of Amqui. E. Hutchinson.	D. MeEvoy B. Gladwin Attinson & McLeod. E. O. Steeves P. A. Grant M. McLeon Geo. Lightle A. MrIsanc J. A. Kirkatrielc J. A. Kirkatrielc J. A. Kirkatrielc J. A. McIsanc J. A. McIscod R. Allan Geo. Lowett Allan Geo. Lowett Allan Geo. Lowett Allan K. McDougall Stratbrona Oal Co. Cauadian Express Co. Town of Shedrac Dominion Express Co.

INTERCOLONIAL RAILWAY	153
SESSIONAL PAPER No. 20	
	ard
	Carried forward
	Cal
20	<del>-</del>
930E	
\$independent of the control of	
James Skean  D. C. Kokenzie & R. Graham  D. Patterson.  M. A. McLeod  A. M. Rowan  W. K. Steeves Central Telephone Co Harris Abattou Go Gity of Sydney John Legeree Le Credit Municipal Canadien Canadian Express Co Charles Love James Barchy Sanderson Mfg. Co Canadian Express Co Town of Rumouski. Lieut. General Laurie Lieut. General Laurie Lieut. General Laurie Lieut. General Laurie Canadian Express Co Trueman Wheaton. John W. Logan Imperial Oil Co Robert Douglas A. A. O'Donnell B. A. A. O'Donnell Canadian Express Co Transcontinental Railway Commissioners John H. Adams Banile Canadian Express Co Transcontinental Railway Commissioners John H. Adams B. N. S. Underhill Furness, Withy & Co Sackrille Hay and Feed Co H. McC. Hatt Canadian Express Co Canadian Express Co Sackrille Hay and Feed Co H. McC. Hatt Canadian Express Co Sackrille Hay and Feed Co Sackrille Hay and Express Co Canadian Express Co Sackrille Hay and Feed Co H. McC. Hatt Canadian Express Co Canadian Express Co Sackrille Hay and Express Co Sackrille Hay and Feed Co H. McC. Hatt Canadian Express Co Sackrille Hay and Express Co Canadian Express Co Sackrille Hay and Feed Co Sackrille Hay H. Sexantel Samued Melanson Doucett Bros. City of Sydney H. H. Stewart. In H. Stewart. In H. Stewart. In H. Stewart.	Carried forward.

No. 9.—INTERCOLONIAL RAILWAY—Concluded. General Balance, Year ending March 31, 1910.

& cts.		2,364,318 19	
CR.	Brought forward		
.se cts.		1,305 06	
& cts.		290 00 290 00 290 00 100 00 900 00	
DR	Brought forward	Advances— H. M. Stevens A. W. Belyea E. H. McAlpine A. Gallipeault T. P. Owens.	

E. & O. E., Moncton, N.B.

S. I. SHANNON, Comptroller.

# INTERCOLONIAL RAILWAY OF CANADA.

STATEMENT of Averages, year ending March 31, 1910.

1,447 13 8,608 486 6,682 353 94,384 628
Per cent. 99:32
6,404 56
1 08 1 39 9 82
Per cent. 17:50 19:98
1:94 51:62 2:23
Cents. 24.28 27.71 2.69 71.60
3.09
Dollars. 1,121 · 03 1,279 · 63 124 · 30 3,306 · 32 142 · 66
Dollars. 1,504·72 604·87 38·16

(Sgd.) S. L. SHANNON,

Comptroller and Treasurer.

C. F. Burns,

Auditor of Disbursements, I.C.R.

# INTERCOLONIAL RAILWAY OF CANADA.

COMPARATIVE STATEMENT of principal Revenue Producing Freight carried over the Intercolonial Railway in 1908-09 and 1909-10.

Description.	Year ended 31st March, 1909.	Year ended 31st March, 1910.
Product of Agriculture:	Tons.	Tons.
Flour Potatoes. Hay. Apples, fruit and vegetables Other mill products. Cotton	146,692 26,842 36,021 15,648 34,519 3,885	160,817 31,232 72,229 18,855 31,511 3,723
Products of Animals:  Hogs and horses. Sheep and cattle Lambs Dressed meats Poultry and game. Fish Oysters. Wool. Hides and leather.	$\begin{array}{c} 8,493 \\ 10,044 \\ 1,532 \\ 17,342 \\ 242 \\ 26,428 \\ 537 \\ 1,196 \\ 5,742 \\ \end{array}$	8,898 9,768 1,967 18,439 411 27,887 1,053 1,642 6,667
Products of Mines: Coal and coke Ore Sand, stone, &c Salt. Slate and granite. Phosphate	1,115,937 2,401 159,300 7,058 3,280 11,356	1,233,870 5,740 184,673 8,898 1,548 15,351
Products of Forests: Lumber Bark Cord wood. Pulp wood Wood pulp Shingles Other forest products.	352,888 14,200 52,817 167.129 19,249 76,480 196,284	416,774 15,835 48,751 185,385 39,072 78,930 259,002
Manufactures: Petroleum and oils. Sugar Iron and steel rails. Iron, pig and bloom. Wire rods. Steel billets. Other castings and machinery Bar and sheet metals. Brick, lime and cement Agricultural implements Furniture Immigrant's effects. Miscellaneous.	26,466 46,300 101,340 98,844 56,024 115,590 64,427 17,218 90,096 6,217 5,293 1,350 327,369	27,537 62,571 88,484 138,468 91,389 89,416 75,419 12,659 107,199 7,585 5,825 1,821 357,963
Grand total	3,573,972	4,110,748

(Sgd.) S. L. SHANNON,

Comptroller and Treasurer.

(Sgd.) W. H. Estano, Traffic Auditor.

# INTERCOLONIAL RAILWAY OF CANADA.

STATEMENT OF RECEIPTS 1908-9 and 1909-10.

Months.	Passenger Traffic.	Freight Traffic.	Mails and Sundries.	Total.
1909—	\$ cts.	\$ ets.	\$ ets.	\$ cts.
April	208,908 23		28,729 25	
May	197,244 59		33,203 06	
June			34,269 36	
July			35,172 13 31,829 50	
August			40,675 34	
October			34,650 62	
November	192,884 95		38,185 79	
December	199,486 28	542,184 42	60,217 58	801,888 28
1910—	100 014 00	450.070.00	99 #90 01	C54 199 50
January	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		33,530 24 30,129 70	$654,123 50 \\ 637,886 09$
February March	220,829 77		52,873 58	868,235 17
1909-10	2,765,884 66	6,048,884 18	453,466 15	9,268,234 99
1908-9	2,628,218 57	5,502,550 58	396,300 31	8,527,069 46

(Sgd.) S. L. SHANNON,

(Sgd.) W. H. Estano, Traffic Auditor. Comptroller and Treasurer.

# INTERCOLONIAL RAILWAY OF CANADA.

Passenger Statement 1908-9 and 1909-10.

Months.	Loc	Local.		Through.		Total.	
	Number.	Mileage.	Number.	Mileage.	Number.	Mileage.	
1909— April May. June July August September October November December 1910— January February March 1909-10.	215,388 236,794 322,238 323,036 270,422 226,473 197,433 232,523 211,233 175,135 242,423 2,873,547	7,653,839 9,757,357 14,117,761 12,202,322 10,978,376 8,096,567 6,428,113 7,993,594 5,886,8₹7 5,122,515	21,779 $25,011$	2,925,795 3,267,586 4,088,943 6,182,175 5,701,955 3,683,460 3,268,710 3,486,280 3,297,370 2,676,647 5,927,635	233,360 258,573 347,249 355,673 298,315 248,001 214,899 250,047 227,634 186,141 262,732 3,122,324	7,799,162	

(Sgd.) S. L. SHANNON,

(Sgd.) W. H. Estano, Traffic Auditor. Comptroller and Treasurer.

# INTERCOLONIAL RAILWAY OF CANADA.

FREIGHT STATEMENT 1908-9 and 1909-10.

Months.	Local.		Through.		Total.	
Montas.	Tons.	Mileage.	Tons.	Mileage.	Tons.	Mileage.
1909—	2/ 2 072			10.002.000		42.022.402
April	236,873	53,975,253 37,200,818	90,450	43,892,383	327,323 305,686	
May	239,633 246,753	40,736,345	66,053 63,050	30,867,706 30,762,591	309,803	
July	280,402	46,540,842	62,830	29,904,627	343,232	
August	214,405	35, 339, 615	59,315	29,405,056	273,720	64,744,671
September	243,051	40,027,779	67,301	35,293,235	310,352	
October	272,107	49,099,724	85,243	45,233,632	357,350	
November	268,595	45,239,989 45,100,837	107,894 $113,976$	59,171,190 65,560,902	376,489 348,689	
December	234,713	40,100,007	113,970	00,000,002	340,009	110,001,73
January	224,072	48,575,194	85,787	46,120,534	309,859	94,695,728
February	225,099	52,442,741	76,754	41,485,502	301,853	
March	272,939	67,289,927	89,945	47,727,335	362,884	115,017,262
1909-10	2,958,642	561,569,064	968,598	505,424,693	3,927,240	1,066,993,757
1908-09	2,742,454	525,514,718	831,518	435,775,383	3,573,972	961,290,101

(Sgd.) S. L. SHANNON,

Comptroller and Treasurer.

(Sgd.) W. H. ESTANO, Traffic Auditor.

# INTERCOLONIAL RAILWAY OF CANADA.

DESCRIPTIVE STATEMENT of Freight transported during the year ended March 31, 1910.

_	Number.	Tons.
Barrels flour Bushels grain Live stock Sup. feet lumber Coal and other fuel Manufactured goods All other articles Total		160.817 155,484 20,633 940,091 1,282,621 1,026,307 524,795

(Sgd.) S. L. SHANNON,

Comptroller and Treasurer.

(Sgd.) W. H. ESTANO, Traffic Auditor.

# INTERCOLONIAL RAILWAY OF CANADA.

STATEMENT of Coal transported during fiscal year ended March 31, 1910.

From	F	OR THE WES	T.	For Local	Total.
11011	Via St. John.	St. Rosalie.	Via Montreal.	Stations.	Total.
	Tons.	Tons.	Tons.	Tons,	Tons.
Stellarton		42	60	393,280 30,421	393,548 30,421
New Glasgow North Sydney	1,286		830	102,305 43,166	104,421 43,166
SydneyPoint Tupper				$7,413 \\ 97,421$	7,413 $97,421$
Norton				239,813 31,302	239,813 31,302
Coal Branch Harcourt Springhill				$ \begin{array}{r} 165 \\ 6,142 \\ 51,692 \end{array} $	$ \begin{array}{r} 165 \\ 6,142 \\ 51,692 \end{array} $
	1,452	42	890	1,003,120	1,005,504

(Sgd.) S. L. SHANNON,

(Sgd.) W. H. ESTANO, Traffic Auditor. Comptroller and Treasurer.

# INTERCOLONIAL RAILWAY OF CANADA.

STATEMENT showing quantity of the under-mentioned articles carried during fiscal year ended March 31, 1910.

Articles.	Via Montreal.	Via St. Rosalie.	Via St. John.	For Local Stations.	Total.
Raw sugar, west bound.  Refined sugar, west bound.  European freight, west bound  east bound.	Tons.  2,000 9,217 6,656 14,408	Tons.  309 6,402 1,651 716	Tons.  1,051 9 5,809	Tons.  12,203 23,224 43,249 88,024	Tons.  14,512 39,894 51,565 *108,957
Grain for shipment.  Fresh fish Salt fish. Coal	Bush. 328,957 Tons. 3,965 3,759 890	Tons. 547 697 42	Tons. 2,616 806 1,452	Tons. 6,525 9,606 1,003,120	Bush. 328,957 Tous. 13,653 14,868 1,005,504

<sup>\*</sup> Includes 64,728 tons deals.

(Sgd.) W. H. Estano, Traffic Auditor. (Sgd.) S. L. SHANNON,

Comptroller and Treasurer.

1 GEORGE V., A. 1911

STATEMENT of Ocean Borne Passenger business done at the Port of Halifax during the fiscal year ending March 31, 1910.

	Nt	NUMBER OF PASSENGERS.				
Name of Steamer.	1st	2nd	Steerage.	Total.		
C. P. R. SS. Line— Empress of Ireland	70 118	27 68	38 63	135 249		
North West Transport Line— Volturno. Uranium. Raglan Castle. Napolitan Prince Sicilian Prince Campania.	1 5	55 52 16 24 5	1,615 1,456 410 699 375 462	1,671 1,513 426 723 380 463		
Allan Line— Corsicau. Grampian Virginian. Tunisian Hesperian. Victorian. Carthaginian Siberian Mongolian Pretorian Corinthian. Numidian Sardinian Ionian Pomeranian Sicilian. Parisian Dominion Line—		720 639 800 930 534 751 184 89 119 141 21 125 17 410 16 14 190	1,885 2,337 2,168 3,052 1,791 2,217 826 212 289 239 48 295 54 667 17 205 379	2,676 3,032 3,109 4,165 2,419 3,135 1,071 320 468 380 69 420 71 1,136 33 222 569		
Dominion Canada Southwark		275 174 17	585 795 88	860 969 105		
Total	1,078	6,414	23,297	30,789		

(Sgd.) E. TIFFIN,

General Traffic Manager.

Moncton, N.B.. July 5, 1910.

STATEMENT of Ocean Borne Passenger business done at the Port of St. John during the fiscal year ending March 31, 1910.

,	Number of Passengers.			
Name of Steamer.	1st	Immigrants.	Total.	
C. P. R. Line— Lake Michigan Lake Manitoba Montezuma. Lake Erie Montrose Lake Champlain Mount Temple. Empress of Britain. Empress of Ireland. Montreal		24 15 30 17 4 1 17 3 4 10	24 15 30 17 4 1 17 3 4 10	
Canada Liue — Prince Oscar		2	2	
Donaldson Line— Athenia Cassandra Salacia. Kastalia	16 8	175 55 5 3	191 63 5 3	
Allan Line— Corsican Tunisian Victorian Virginian Grampian Hesperian Sardinian Pomeranian	1	14 24 15 3 6 46 27 6	16 24 15 3 7 46 27 6	
Total	27	506	533	

(Sgd.) E. TIFFIN,

General Traffic Manager.

Moncton, N.B., July 5, 1910.

STATEMENT of Ocean Borne Passenger business done at the Port of Quebec during the year ending March 31, 1910.

N	NUMBER	OF PASSE	NGERS.
Name of Steamer.	1st.	2nd.	Total.
Athenian Corinthian Corsican C	1 1 9 4 2 3 3 4 4 2 3 3 4 4 2 3 3 5 10 1 1 2 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 13 35 10 69 14 30 2 25 27 3 28 32 20 6 40 18 18 32 26 10 31 46 6 13 32 4 4 4 5 14 4 5 7 7 7 8 7 8 7 8 7 8 7 8 7 8 8 8 8 8 7 8	33 14 4 44 44 17 1 17 7 3 3 6 25 5 4 11 31 31 32 1 4 6 6 13 3 3 21 1 3 5 10 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

(Sgd.) E. TIFFIN,

General Traffic Manager.

Moncton, N.B., July 5, 1910.

STATEMENT of Ocean Borne Freight traffic via Halifax for the year ending March 31, 1910.

Line of Steamers.	Import.	Export.
Allan Line C. P. R. Elder Dempster Furness Manchester N. W. Transport Co Plant Line Pickford & Black Red Cross Line Donaldson Tramps—various steamers	Tons.  16,877 99 1,468 14,732 973 911 1,328 16,848 304  11,087	Tons.  5,448 158 2,190 56,122 5,845 619 24,087 1,017 1,030 24,405

(Sgd.) E. TIFFIN,

General Traffic Manager.

Moncton, N.B., July 5, 1910.

STATEMENT of Ocean Borne Freight traffic via St. John, for the year ending March 31, 1910.

Line of Steamers.	Import.	Export.
	Tons.	Tons.
Allan Line. Donaldson		5,270 2,846
Havana & Mexican Line. Manchester Line. South African Line.	2,308	$1,273$ $3,343$ $2,355\frac{1}{2}$
C.P.R. Line. Head Line Furness Line	3,111	6,608 836 1,382
Elder Dempster Line. Pickford & Black Line. Teodore de Laringa (steamer).	210 296 6,562	
	21,474	23,9131

(Sgd.) E. TIFFIN,

General Traffic Manager.

Moncton, N.B.. July 5, 1910. 20—11½

# 1 GEORGE V., A. 1911 INTERCOLONIAL

# STATEMENT of Casualties for the

-				·- <u></u>				
Date	a.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine.	Place of Accident.
1959								
April	1	20 K	Special		H. Pelletier	J. Dean	361	Drummondville
11	1	21 K		Freight	P. H. Sirois	G. Goddard	307	St. Appollinaire
41 .	6							1½ miles east Trois Saumons.
41	10	17.20	Mixed	Freight	F. A. Davidson	Judson Wall	341	mile north Prin- cess Lodge.
11	15	6.30	24		J. L. Barnhill		281	1 mile east Painsec Jct.
4.1	16	2.55			A. Begin			<sup>3</sup> mile west Causapscal.
11	18 22	23.50 11 K	Special Lig't Engine	Freight	A. Delaney W. A. Fitch	M. J. Taylor A. McLean		Adamsville 3 miles east Leitches
11	22	9.50	Pilot		Wm. Tees	J. Martin	91	Creek. St. Hyacinthe
11 11	23 24	$12.20 \\ 7.40$	Shunter	Freight	C. Poirier W. E. Fergusson .	C. A. Killam W. E. Hunter		Ritchie's Siding Birch Ridge
41	24	23 25	69	Suburban	C. D. Phillips	J. Stockall	141	Fairview
e11	28		Special		V. R. Blanchard	F. Goddard		3 miles west St. Appollinaire.
501	30	21.30						Truro
511	30	15 45						Chaudiere Jct
May	4	11.30	Shunter				77	St. John Yard
* 0	5	16.30		Express	J. Guay	E. Ouellett	408	Chabot's Crossing .
11	19 22	$\frac{20.30}{20.30}$	Shunter 176	Fast Frt	Jas. McDonald	A. Stevens	23	Campbellton Yd Stellarton
11	26	8 40	25	Express	T. Guinan	B. Cooke	234	½ mile east Windsor
June	1	19.50	Sub		P. Tardif	Oct. Halle	90	Pt. Levis Yard
11	29							Kenipt Road, Halifax.
July	7	14 55	64	Suburban	L. G. Kennedy	C. Coleman	227	Burton's, Halifax
							[ ]	
41	8	10 14	Sub		Geo. C. Johnston	Geo. Roberge	173	Point Levis
41	16	13.25	Special	Passenger	Jos. Baxter	Jno. H. Campbell.	66	½ mile east of Trenton.
11	19	22 0	200	Express	J. Rioux	W. J. Atkinson	343	Between Villeroy &
41	3)	22 00	75	Freight	C. Couchy	J. Collet and E. Huott.	308 91	de Lotbinière. I mile west of Lau- rier.
						1		

# SESSIONAL PAPER No. 20 RAILWAY OF CANADA.

year ended March 31, 1910.

Name of Person Injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict.
		·		
W. Lenrieux	Brakeman	Hand caught between draw bar and dead wood block.	Hand injured	·
J. A. Pickard	11	While shunting	Right leg slightly bruised.	
D. Cloutier	Caretaker	Found on track	Fatal	Accidental.
Daniel McNevin	Passenger	Fell off train	Head injured	
•	Neither	Found alongside of track by crew of 24 train.	Fatal	No blame
Chas. Audet W. Morrison	Mail Clerk Express Messenger	Eight cars of train left track. Mail car rolled down bank	Heavy blow across	railway.
J. Little	Brakeman	While shunting Tender of engine left track and upset.	Side injured Ankle sprained	
Sylva Catudal	Neither	Attempting to cross track be-	Left arm and foot	No blam'e
N. Desrosiers C. Leahv	Brakeman	tween cars. While shunting While unloading piece of	Foot badly hurt, Finger crushed	railway or
		machinery. Attempting to get off car before it stopped, tripped and	Right hand	
Louis Jacques	Sectionman	fell. Struck by train	Head injured	
A. Griffin	Frt. porter	While handling freight truck	Foot bally injured.	
Alfred Couture	Car repairer	slipped and he fell back wards. While coupling hose between	Injured about	
A. Mowery	Shunter	cars. Being caught while uncoupling	stomach. Back injured	
		cars. Struck by train while walking on track.		
Chas. Cormier	Brakeman	While shunting	Ankle sprained Badly injured	
Sydney Shaffleburg		While standing on track was		Accidental.
Jos Anctil	Brakeman (not on duty.)	struck by train. While attempting to get on foot board of tender fell and wheels of tender passed over		11
Wn. Ingram	Neither	his body. Fell while playing on wall at	4	11
Murphy boy, 8 or 9 yrs. old.	н	new round house. Run over by train	Badly cut about head, right leg almost severed	
A. Simard	"	Struck by train while walking	above ankle	
Fred Donlan, Miss Sadie Murray, Mrs. Gordon.		on track.	leg injured. Fracture of skull. A r m bruised. Shoulder slightly	
Jos. Ginois	Fireman	While shaking grates shaker		
Peter Ryan, Jno. Doran, Pat. Cronin, Wm. Fairbrother.	Neither	gear broke injuring hand. Were stealing ride in box car when a wheel of car contain- ing billets broke derailing car.		

# 1 GEORGE V., A. 1911 INTERCOLONIAL

# STATEMENT of Casualties for the

			·					
Date.	.	Time of Day.	No. of Train.	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine.	Place of Accident.
1909.								
Aug.	7	24.20	301	Express	A. E. Logan	Wm. Matthews	109	Loggieville
		18.10 12 K	Spcl5	Freight	J. B. LeBel J. S. Nickerson	A. Cheuard R. Linden		Riv. du Loup Yard. Sussex
u i	14	10.07	83	Express	J. Coffey	R. Bulwer	155	<sup>3</sup> unile east Buctouche Crossing.
10	19	12.45	Pilot	Freight	A. St. Pierre	N. Houston	3	
11	20	1.50	Spel		W. Brownrigg	J. Shaw	366	Truro
0 - 3	27	20.15						
11	28	17.49	34	Express	O. Desjardins	E. Parsons	407	St. Alexandre
	30	17 55	200	11	Geo. Nixon	J. Donald	338	Thomson
Sept.	7							1 mile west Sackville
11	7	5.10	Freight	Special	A. Laliberte	D. Cote	392	St. Lambert
11	13	22.30	Excur. Pass.		Jno. McLeod	Jno. McEachern	395	Amherst
1	20 21	21.50	Special		H. Pelletier	H. Gingras	307	Near St. Joseph sta. Ste. Rosalie
11	23	17.40	Special		J. F. Kelly	A. Probert	21	Hopewell
Oct.	6	2.38	Special Exp.	Freight Pass	J. H. Thom <sub>l</sub> son	R. J. Whalen	88	300 yards West Nashes Creek Stn.
	6	2.38	11	11 .	A. McLellan	John Morton	333 333	
E1	6	2,38 2,38		11	11	11	333 333	
11	6	2.38		11	17		333	
11	6	2.38		11 .			333	
11	6	$\frac{2.38}{2.38}$		11 .	11	11	333 333	
D H	6	2.38		11 .	A. Gauvreau	E. Rov	333	Drummondville
11	8		Shunter			F. McBeath		Moneton Yd
11	12		26	Express	W. McClafferty	W. J. Hunter	341	2 miles North Truro
11 21	$\frac{15}{20}$	1.00 6.20	Special	Express	F. A. Fowlie E. Canuire	J. Gozley A. Matthews		Windsor Jct Skin Cut Snow Shed
11	21	13 00	Shunter		Nap. Levesque	Geo. Lutes	369	Cedar Hall
0	30	23.00						Pt. du Chene
Nov.	1	22.30	Shunter			W. McDonald	349	Sydney Yd

### SESSIONAL PAPER No. 20 RAILWAY OF CANADA.

year ended March 31, 1910-Continued.

	*			
Name of Person Injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury.	Verdict.
		His jumper caught on bolt while coupling cars.		
Sam Boucher Roy L. Welling	Brakeman	While unloading freight truck	Foot slightly in-	
Alex. H. Steeves	Neither	fell on his foot. Walking on track struck by train.	Died in the hospital, Moncton.	
		Walking on track struck by train.	Died from injuries received.	
	Employee of Norris & Rowe's Circus. Frt. porter	He was sleeping in car which went off track.	located.	
	Neither	Struck his head against car door while unloading mails. Attempting to board train	low eye.	
		while under influence of liquor.		
		While standing on crossing struck by train. Found dead on track, supposed		
		to have been struck by some train during night.		
		Foot caught between rail and car coupling cars.	crushed	
		Fell or jumped from train	injured.	
Victor Chatignay O. Sirois	Brakeman	Found dead alongside of track Foot caught between guard rail and switch while getting off train.	Injured.,	No blame attached Ry. or Emp
Arthur Murray		While coupling cars	Thumb badly smashed.	
		Thompson's special collided with No. 33 Express train.	Fatal	Fault of Con. Thompson
W. S. Morrison	Exp. Messenger			and Driver Whalen.
wm. Cook	Fireman Brakeman	0 0 0 0 10 0 0 T	Badly injured Right leg badly	
	I .		injured. Shoulder dislocated.	
D. O'Sullivan W. P. Starratt	Mail Clerk		T f & a amos based la con	
J. H. Thompson Wilfrid Blais	Conductor	While walking on track struck	11	
		Attempting to shove coupler	Foot badly jam-	
		with his foot.  Jumped through window 2nd class car.	med.	
Henry Gratta M. D. Mullins	Em. on Steam shovel Waiter	Found body on track cut in two No. 33 run into No. 75 Mul-	Fatal	Accidental.
		lins knocked down by jar. Foot caught in hole of flat car.	·	
		Caught foot in turntable while turning engine.	Foot smashed	
Jno. McPhee	Brakeman	Squeezed between platform and car.	Bruised about body.	

### 1 GEORGE V., A. 1911 INTERCOLONIAL

### STATEMENT of Casualties for the

Date	.	Time of Day.	No. of Train	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine.	Place of Accident.
1909		1						
Nov.	4	19.00	84	Express	J. Coffey	R. Bulwer		Halls Creek Bridge
11	4	5.15	Special 133	Express	O'Brien J. B. Crockett	R. D. McDonald Geo, Storey		near Moncton. Woodburn Pt. du Chene
ti	10	5.25	33	11	A. Begin	W. Duncan	406	1 mile East Parades Siding.
11	12	18.35	Shunter			H. Maisey	350	Campbellton
- 11	20							Nicolet
Dec.	1	10.25	145	Express	J. Dowden	R. Jameson	2	Guy St., Montreal
11	5	16.30	Special	Freight	S. G. Nickerson,	W. Ingram	103	Cannan
81	13	22.45	26	Express	A. E. Brown	J. Ross		Short distance west of North St. stn.
\$\$ 98 81	17	16.20 24.00 16.50	23 Shunter 37		I. L. Barnhill J. Jackson W. F. Fergusson	P. McInnes	405	Amherest D. W. T. Halifax. Beaver Brook near St. Francois stn.
16	26	10.20	Special		H. LeBel	Geo, Cote	320	St. Anne
1910	0.			·				
Jan.	4	12.20	42	Freight	A. Gamache	D. C. Gallan	351	Cedar Hall
11	7	16.00	41		**********	R. Baird	264	Ste. Flavie Yard
11	10	17.30	Shunter			R. H. Fillinore	287	Stellarton Yard
11	17				1	Î		
11	$\frac{19}{22}$				A. Freshetto			Near Lourdes St. Lambert
11	27	10.00			· · · · · · · · · · · · · · · · · · ·			Truro
Feb.		15.05 20 25		Freight Express	J. W. Coles A. Legace	W. Gross G. Findlay	279 102	Amherst
11	19 21		Special Shunter			J. Martin Ed. Kean	7	Chatham Ste. Flavie Yard.
11	28	1.40	Special	Freight	H. A. Baker	D. McLeod	309	Hill Siding near Folleigh.
Mar.	. 5	16.35	Shunter			G. Roberge	197	Levis Yard

## SESSIONAL PAPER No. 20 RAILWAY OF CANADA.

year ended March 31, 1910-Continued.

Name of Person Injured.	Whether Passenger or Employees,	Particulars of Accident.	Extent of Injury. Verdict.
***	** **		
Ed. Donaghau	Neither	Struck by train while walking	Died in Moncton No Inquest.
A. D. Clause	The almost on	on track. Fell from car of ties	Hospital.
Geo Mills	Brakeman	Caught between switch stand	Right arm and side
	Diamental ,	and cars while shunting.	badly injured.
Miss N. Kinnear	Passenger	and cars while shunting. Train left track	Ear slightly in-
C. B. Jones	Porter		jured. Head
77 (1 .	37 1.3		slightly injured.
Henry Ginter	Neither	Struck by train while crossing	·Fatal
Fillion	Eiroman	track. Slipped on ice and fell off turn-	Two ribs forced out!
		table.	of place.
Amedee Cherrier.	G.T.R. Sectionman	While standing on platform of	Badly injured
		car train collided with car	
0.0.30.1	G 1	on main line.	D 11
S. G. Nickerson	Conductor	When train parted car stopped	Badly injured
		quickly throwing him against end of car.	
Mrs. K. Carroll	Passenger	Found on track	One leg below knee
		1	and foot cut off
			died in Hospital
F 1 D ()	NT 1.1	a	Halifax.
Lula Barrett	Neither	Crossing track beneath cars	Fatai Accidental.
W F Fergusson	Conductor	Hand caught in door	One fuger emashed
Elz. Villeaux	Neither	Found dead on track	Fatal Accidental.
H. M. Cantield	Passenger	No. 33 train collided with	Slightly injured
		Special.	Halifax. Fatal Accidental. Badly injured One finger smashed Fatal Accidental. Slightly injured
Miss A. Poirier		и и	
Mrs J Shute		11 11	11
David Tokes		11 11	11
Chas. Soloman		, , , , , , , , , , , , , , , , , , ,	
I. Bircovitch	News Agent	While cleaning fire.	п
E. Patson	Second Cook	11 11 11 11 11 11 11 11 11 11 11 11 11	733
D. C. Gallan	Engmeer		First finger of left
•			hand badly smashed.
A. Rioux	Yardman	While coupling cars	Fatally injured, Accidental.
			died next morn-
			ing.
John W. McIntosh	Brakeman	While standing on foot board	Fatal "
		of Engine 287 which collided with Engine 85.	
Aug. Pouliot	Engineman	Struck by shunting engine	Slightly injured
Jos. Campbell	Sectionman	Struck by shunting engine Walking on track	Badly injured
Jos. Frechette	Brakeman	white shunting supped and	1 I nree ingers of left.
		fell.	hand swashed.
Geo. Laird	Car Inspector	While uncoupling air brakes head caught between cars.	Badly injured
J. A. Stronach	Brakeman	Fell from ladder of box car	Aun broken
M. Lachapelle	Neither	While driving on track struck	Slightly injured
		by train.	
W. Whalen	Brakeman	While coupling cars Struck by engine while walk-	Thumb jammed
Dumas Cloveau	Sectionman	Struck by engine while walking track.	Sugntly injured
D. McLeod	Engineman	Engine and six cars went over	Fatal Breaking of
	_	bonk	tire of right.
John McIsaac	Fireman	While coupling cars	, hand driv-
J. O. Davidson	Brakeman	3371.71	ing wheel.
A. Martin	1 ardman	While coupling cars	radiy injured

### 1 GEORGE V., A. 1911 INTERCOLONIAL

### STATEMENT of Casualties for the

Date		Time of Day.	No. of Train	Description of Train.	Name of Conductor.	Name of Driver.	No. of Engine.	Place of Accident.
1910.								
Mar.	7		Shunter					Ste. Flavie
11	11	18.30	376	Sub	W. Long	N. Ivroy	330	Fredericton Station
11	12	24.15	Special	Freight	F. Dixon	W. Rushton	297	3 miles west Belle- dune.
It	31							St. Hyacinthe

### SESSIONAL PAPER No. 20 RAILWAY OF CANADA.

year ended March 31, 1910-Continued.

-			
Name of Person Injured.	Whether Passenger or Employee.	Particulars of Accident.	Extent of Injury. Trains.
A. Dumont	Yardman	While shunting	Second finger of right hand jammed.
W. Burdon	Brakeman	Fell from train wheels passing over right hand.	
Robert Geedart			Seriously injured, Accidental. died later in Moncton Hospi
O. Dion	n	While unloading freight	

### WINDSOR BRANCH RAILWAY.

### OFFICE OF THE ENGINEER OF MAINTENANCE.

To the Canadian Government Railways Managing Board, Moneton, N.B.

Gentlemen,—I beg leave to submit the following annual report for the maintenance of the Windsor Branch for the year ending March 31, 1910.

### TRACK.

During the year 43,320 feet of 4-inch and  $4\frac{1}{4}$ -inch rails were taken out of the track and the same quantity of  $4\frac{1}{2}$ -inch rails relaid.

### TIES.

Ten thousand five hundred and forty-four ordinary ties and 1 set of switch ties were renewed during the year.

### BALLASTING.

During the year 140 cubic yards of ashes were put under the track.

### SWITCHES AND SEMAPHORES.

Necessary repairs were made to all switches and semaphores.

### FENCING.

During the year 2,000 rods of wire fence was built by contract. Necessary repairs were made to existing fences throughout the branch.

### WHARFS AND TRESTLES.

### Repairs.

Necessary repairs were made to wharfs and trestles throughout the line.

### BRIDGES AND CULVERTS.

### Repairs.

Beaver Bank, bridge; Ellershouse, bridge; Ellershouse, culvert; Fletcher's, bridge; Pidgeon's, bridge; Three-Mile Plains, bridge.

### BUILDINGS AND PLATFORMS.

### Repairs.

Beaver Bank, station; Beaver Bank, platform; Ellershouse, station; Hartville, platform; Mount Uniacke, station; Mount Uniacke, freight shed; Newport, station; South Uniacke, platform; Windsor, station; Windsor, platform; Windsor, engine house; Windsor, tool house; Windsor, freight shed.

### GENERAL.

Necessary repairs were made to cattle-guards, road crossings and gates throughout the line, where required.

Glazing was done and glass put in where required.

Outhouses and approaches to public road crossings were whitewashed.

Semaphores, switches and signals were painted when required.

Necessary repairs were made to trollics, hand cars, wheel-barrows, &c., throughout the line, when required.

The track on the Windsor Branch, with the bridges and structures, have been kept in good repair and I think were never in better condition.

I am, yours faithfully,

(Sgd.) T. C. BURPEE,

Moncton, N.B., March 31, 1910.

### WINDSOR BRANCH RAILWAY.

### REVENUE ACCOUNT year ended March 31, 1910.

Expenditure.	S ets.	Earnings. ,	\$ cts.
Maintenance of way and structures	23,549 90 37,104 08 	Passenger earnings. Freight earnings. Mail earnings.	43,805 98

E. & O. E.,

MONCTON, N.B.

(Sgd.) S. L. SHANNON,

Comptroller.

### WINDSOR BRANCH RAILWAY.

MAINTENANCE of Way and Structures, year ended March 31, 1910.

	\$ ets.
Superintendence Ballast Ties Rails Other track material Roadway and track Removal of snow, sand and ice Bridges, trestles and culverts Grade crossings, fences, cattle guards and signs Signals and interlocking plants. Buildings, fixtures and grounds Docks and wharfs Roadway tools and supplies. Stationery and printing. Other expenses	2,094 79 66 50 3,850 02 2,748 42 1,500 17 9,395 12 427 14 643 97 1,899 10 1,899 10 27 88 594 95 12 75 135 31 40 27 124 51

E. & O. E.,

MONCTON, N.B.

(Sgd.) S. L. SHANNON,

Comptroller.

### WINDSOR BRANCH RAILWAY.

GENERAL BALANCE, year ended March 31, 1910.

Dr.	\$ cts.	Cr.	\$ ets.
To Stores Department.	4,311 35	By Dominion account	4,311 35
E. & O. E., MONCTON, N.B.		(Sgd.) S. L. SHANNON,  Comptr	

### WINDSOR BRANCH RAILWAY.

### STATEMENT of Monthly Receipts-One-third Earnings.

Month.	Passenger Earnings	Freight Earnings.	Mail Earnings,	Totals.
April. May. June July August September October November December	8 cts. 960 47 932 36 1,392 07 1,777 56 1,992 13 2,605 57 1,581 29 981 01 1,161 21	\$ cts. 3,244 39 2,674 21 2,228 76 2,263 53 1,624 46 4,579 91 5,546 10 6,104 65 3,989 98	\$ cts. 95 68 95 68 95 68 95 68 96 91 98 13 96 90 96 91 96 91	\$ cts. 4,300 54 3,702 25 3,716 51 4,136 77 3,713 50 7,283 61 7,224 29 7,182 57 5,248 10
January	663 44 701 40 947 65 \$15,696 16	4,473 17 3,385 79 3,691 C3 \$43,805 98	94 46 94 45 94 45 1,151 84	5,231 07

E. & O. E.,

Мохстох, Х.В.

(Sgd.)

S. L. SHANNON,

Comptroller.

### PRINCE EDWARD ISLAND RAILWAY.

### SUPERINTENDENT'S OFFICE,

CHARLOTTETOWN, P.E.I., May 31, 1910.

Sir,—I have the honour to submit the following report of the working of the Prince Edward Island Railway, for the fiscal year ended March 31, 1910.

I also inclose the report of the mechanical superintendent, and the following statements prepared by the accountant and auditor, and the mechanical accountant and storekeeper:—

- No. 1. Capital.
  - 2. Revenue.
  - 3. Maintenance of way and structures.
  - 4. Maintenance of equipment.
  - 5. Traffic expenses.
  - 6. Transportation expenses.
  - 7. General expenses.
  - 8. General stores.
  - 9. General balance.
  - 10. Statement of averages.
    Statement of receipts.
    Passenger statement.
    Freight statement.

Descriptive statement of freight transported.

- A. Statement showing the number of locomotives and the various classes of
- B. Statement showing the mileage made, and the coal, oil and waste consumed by locomotives.

The mileage of the railway in operation during the year was the same as last year, 267.5 miles.

### CAPITAL ACCOUNT.

The expenditure to March 31, 1909, was	\$8,	258,967	94
To increase aeeominodation at Charlottetown\$156,531	57		
Branch line, Harmony to Elmira 49,829	25		
Montague Branch	15		
	9	206,396	97
Making the total on March 31, 1910	\$8.	465,364	91

The above expenditures under the head of eapital account, for the current year, will be fully explained by the chief engineer.

### REVENUE ACCOUNT.

There has been a very substantial increase in revenue during the year. erops were exceptionally good, and prices ranged high, and the province has experienced a continuance of prosperity.

The gross earnings and working expenses for the year comp	are as f	ollows:—
Gross earnings		
Difference	108,208	99
The gross earnings compare with the previous year, as follow	vs:—	
In 1908-9\$	311,319	63
1909-10		
Inerease	7,755	11
The earnings from passenger traffic compare, as follows:—		
In 1908-9\$	136.534	04
1909-10		
Inerease	3,542	79 ===
The earnings from freight traffic compare, as follows:-		
In 1908-9\$	149.150	61
1909-10		
Increasc\$	4,222	50

The earnings from mails and sundries compare as follows:-	
In 1908-9	25,634 98 25,624 80
Decrease	10 18
The numbers of passengers carried compare as follows:—	
In 1908-9	Number. 332,758
1909-10.	351,038
Increase	18,280
=	
The weight of freight compares as follows:—	Tons.
In 1908-9	106,090
1909-10	105,741
Decrease	349
<del></del>	
WORKING EXPENSES.	•
The working expenses compare with the previous year, as fo	
In 1908-9	
Increase\$	16,953 32
The averages compare with the previous year, as follows:—	
Per Mile Run by Locomotive.	
In 1908-9\$	88 46
1909-10	96 05
Per Mile Run by Trains.	
In 1908-9	119 51 132 07
	102 01
Expenditure per Mile of Railway.	
In 1908-9	1.499 36
	· ·
1909-10	1,600 31

### TRACK.

Twenty-seven thousand five hundred and eighty-one track ties, 18 sets switch ties, and 26 head-blocks and frames were renewed.

Four Burpee switch-stands were placed in Charlottetown yard, and 3 on main line.

Fifty pound steel rails were laid as follows to replace iron rails:—2,115 feet in Tignish yard, 1,176 feet on Alberton wharf track, 3,360 feet in Georgetown yard, and 1,672 feet in Souris yard. In Charlottetown yard 4,900 feet track was laid with 56-lb.

steel rails to replace iron rails, and on the main line of the Vernon River loop 2,750 feet 50-lb. rails were laid to replace 56-lb. steel rails, which were in bad order. On the main line between Royalty Junction and Kensington 1,100 tons of 58-lb. steel rails, with bolts and fastenings, were laid, replacing 50-lb. steel rails. Twelve new steel frogs were used on the road to replace worn out and lighter ones, which were taken out.

A new track scale with concrete foundation was placed in Charlottetown yard, and a second-hand track scale with timber foundation in Georgetown yard.

A new Ellis bumping post was placed on end of track on Souris wharf, and two on end of tracks on Charlottetown wharf.

Twelve hand cars were repaired. Seven new track levels and 4 lifting boards were made.

### SIDINGS.

At Tignish a new siding, 396 feet in length, was laid with 50-lb. steel rails, for a plough and flanger.

At St. Louis 950 feet of 50-lb. steel rails were laid on siding to replace iron rails, and siding was extended 100 feet.

At Alberton 1,000 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At O'Leary 1.032 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Portage 1,540 fect of 50-lb, steel rails were laid on siding to replace iron rails.

At Ellerslide 508 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Northam 800 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Richmond 750 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Kensington 2.928 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Kelvin 384 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Emerald 400 feet of 50-lb. steel rails were laid on siding to replace iron rails

At Kinkora 800 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Albany 750 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Bradalbane 1,790 feet of 50-lb. steel rails were laid on siding to replace iron

rails.

At Elliott's 1,251 feet of 50-lb. steel rails were laid on siding to replace iron rails. At Hunter River 1,250 feet of 50-lb. steel rails were laid on siding to replace iron rails. The through siding was extended 180 feet, and Full's siding 70 feet, and both relaid with 50-lb. steel rails.

At North Wiltshire 600 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Milton 500 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Winsloe 300 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At York 1,600 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Bedford 1,296 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Mt. Stewart 1,455 feet of 50-lb. steel rails were laid on siding to replace irou rails.

At Morell 1,200 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Marie the siding was extended 400 feet. In replacing iron rails taken out, and extending siding, 1,152 feet of 50-lb. steel rails were used.

At St. Peter's 642 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Selkirk 800 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Bear River 984 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At Peake's 450 feet of 50-lb, steel rails were laid on siding to replace iron rails.

At St. Teresa 500 feet of 50-lb. steel rails were laid on siding to replace iron rails.

At Kitchen's Siding 264 feet of 50-lb. steel rails were used in extending it.

### FENCING.

Thirty-one thousand one hundred and seventy feet wire fence were rebuilt with new cedar posts and Page wire. Seven thousand two hundred and eighty-eight feet new stationary snow fence was built. Two thousand one hundred and seventy-five feet stationary snow fence and 575 feet barbed wire fence were rebuilt. Three hundred and ninety-four panels of portable snow fence were built by road carpenters, and placed where most needed. A large quantity of temporary snow fence was creeted with brush and wire.

Fifty farm gates were renewed.

All fences requiring repairs were attended to.

### BALLASTING.

Seven hundred and eighty-three cars of ballast were distributed where most needed. Three hundred and fifty-seven cars of clay were used to grade station grounds and widen embankments. Forty-two cars ashes were distributed in wet and soft places in the track.

### BRIDGES.

At West Devon, Ellerslide and St. Nicholas bridges received new coverings of hard pine ties.

At Mt. Stewart iron work of bridge was painted.

At Morell repairs were made to rest pier of swing span of the bridge.

At Maric stonework of bridge was pointed and ironwork painted.

At Midgell stonework of bridge was pointed and iron and woodwork painted.

At Pinc Brook stonework of bridge was pointed.

### CULVERTS.

At Bloomfield a new timber culvert was built to change the water course at this place.

At O'Leary a concrete pipe culvert, 40 feet long, 18 iuches in diameter, was put in to replace a wooden one.

At Coleman a concrete pipe culvert, 20 feet long, 15 inches in diameter, was put in to replace a wooden one.

At Northam a concrete pipe culvert, 35 feet long, 18 iuches in diameter, was put in to replace a wooden one.

At Richmond a concrete pipe culvert, 40 feet loug, 18 inches in diameter, was put in to replace a wooden one.

At Summerside a concrete pipe culvert, 28 feet long, 18 inches in diameter, was put in to replace a wooden oue.

At Mt. Stewart a concrete pipe culvert, 16 feet long, 15 inches in diameter, and an iron culvert, 36 feet long, 12 inches in diameter, was put in to replace wooden culverts.

At St. Peter's an iron pipe culvert, 48 feet long, 12 inches in diameter, and a concrete pipe culvert, 25 feet long, 18 inches in diameter, were put in to replace wooden culverts.

At Georgetown a concrete pipe culvert, 18 feet long 30 inches in diameter, was put in to replace a wooden culvert, and two concrete culverts, 30 feet long, 18 inches in diameter, were constructed to replace two wooden culverts.

At St. Teresa two concrete pipe culverts, 17½ feet long, 18 inches in diameter, were put in to replace two wooden ones.

 $20 - 12\frac{1}{2}$ 

Twenty-eight wooden culverts were rebuilt with hemlock and other timber, and stone culverts repaired where necessary.

Eighty-five cattle-guards were renewed with hemlock ties, hard pine and hemlock timber.

### WHARFS AND BREASTWORKS.

At Summerside the following material was used in repairing wharf: 50,000 feet hemlock timber, 3,000 feet hemlock plank and 300 drift bolts. In repairing breastwork, 30,000 feet hemlock timber and 200 drift bolts were used.

At Souris, in building a slip, 2,000 feet hemlock plank and 100 drift bolts were used.

At Georgetown the following material was used in building a slip for the Earl Grey: 5,000 feet hemlock timber, 2,000 feet spruce plank, 2,000 feet hemlock plank and 300 drift bolts.

At Marie, 50 feet of breastwork was built with old ties and timber.

### BUILDINGS AND PLATFORMS.

Tignish.—Engine-house, freight-house and flues in agent's dwelling were repaired. Four coal boxes were rebuilt.

DeBlois.—Station was repaired.

St. Louis.—Station was repaired and a new ticket office built. A new cattle pen was erected.

Alberton.—Agent's dwelling was raised and a new foundation placed under it, and repairs made to the interior, which was also papered and painted. Roof of dwelling was shingled.

Howlan.—A new station platform was made.

O'Leary.—Station platform and section tool-house were rebuilt. Agent's dwelling was papered and painted inside.

West Devon.—The door and windows of station were repaired.

Portage.—The station windows were repaired.

McNeill's.—The station windows were repaired.

Ellerslie.—Section tool-house was rebuilt.

St. Nicholas.—Station doors and windows were repaired.

Piusville.—Windows of station were repaired.

Summerside.—Station was repaired and baggage-room received a new gravel roof. Freight-house on wharf was raised and repaired.

Freetown.—Three new storm windows were made for station.

Emerald.—The station platform was renewed.

Cape Traverse.—Station platform was repaired. Kitchen of agent's dwelling and one room were sheathed.

Bradalbane.—Station roof was repaired with gravel and pitch. Agent's dwelling was papered and painted inside.

Clyde.—Exterior of station was painted.

Hunter River.—Station platform was repaired. Station received a new gutter and was repaired.

North Wiltshire.—Station platform and doors and windows of station were repaired.

Colville.—Station received new doors and windows.

Milton.—New doors and windows were provided for station.

Royalty Junction.—Two small houses were converted into one building for agent's dwelling, which necessitated considerable labour, as one building was moved and a new foundation placed under both. Dwelling was also papered, and both the interior and exterior painted.

Bedford.—Four new storm windows were provided for station, and necessary repairs made to station. A new floor was laid in the office.

York.—Station windows and doors were repaired.

Mt. Stewart.—The interior of agent's dwelling was papered and painted. Station platform was repaired.

Lot 40.—The station was painted outside.

Morell.—Station and platform were repaired. The interior of agent's dwelling was painted and papered.

Union.—Station platform was renewed.

St. Peter's.—A new section tool-house was built, and station platform repaired. Selkirk.—Section-house roof was shingled.

Bear River.—Agent's dwelling was painted and the eeilings whitened. Station platform was renewed.

Souris.—Station received repairs and a new erown moulding, and the exterior was painted. A new gravel roof was placed on baggage-room. Station roof was shingled. A new well-house was provided for the agent. Agent's dwelling was papered and painted inside. A new set of scales was placed in freight-house.

Peakes.—A new door was provided for freight-house, and repairs made to doors

and windows of station.

48 Road.—Station roof was shingled.

Cardigan.—Station was repaired.

Georgetown.—Engine-house was repaired, and the roof shingled. Warehouse on wharf was raised and placed on a new foundation.

Murray Harbour.—Doors and windows of engine-house were repaired. All other buildings requiring repairs were attended to.

### STORES.

The value of stores purehased was	\$150,719 57
The value of stores used was	181,020 08
The value of material sold was	2,623 82
The value of stores on hand at the end of the year was:—	
Miscellaneous	\$ 31,948 74
Fuel	
Roadway and bridge material	15,201 67
-	
	\$59,306 18

The rolling stock, roadbed and buildings have all received generous attention, and are in a state of efficiency.

GENERAL.

I inclose a return of easualties which occurred during the year.

I have the honour to be, sir,

Your obedient servant,

(Sgd.) G. A. SHARP,

Superintendent.

D. Pottinger, Esq., I.S.O.,

Assistant Chairman, Govt. Railways Managing Board, Moneton, N.B.

No. 1.—PRINCE EDWARD ISLAND RAILWAY.

CAPITAL ACCOUNT.—12 MONTHS ENDED MARCH 31, 1910.

-	s cts.	8,258,967.94		206,896 97		8,465,364 91
	CR.	8,258,967 94 March 31. By Dominion of Canada		March 31. By Dominion of Canada		
	1909.	March 31.	1910.	March 31.		
	& cts.	8,258,967 94			206,396 97	8,465,364 91
	Dr.	March 31. To cost of P. E. I. Railway to date		March 31. To increase accommodation at Charlottetown. \$ 156,531 57 Branch line—Harmony to Elmira 49,839 25 Montague Branch		
1.	1909.	March 31.	1910.	March 31.		

W. T. HUGGAN,
Lecountant and Anditor.

CHARLOTTETOWN, P.E. I.

E. & O. E.,

### No. 2.—PRINCE EDWARD ISLAND RAILWAY.

### REVENUE ACCOUNT—TWELVE MONTHS ENDED MARCH 31, 1910.

Expenditure.	\$ eta	EARNING.	\$ ets.
Maintenance of way and structures Maintenance of equipment	121,046 70 79,258 26 968 97 211,004 76 15,005 04 427,283 73	Passenger earnings Freight earnings. Mails and express earnings. Miscellaneous earnings.	153,373 11
	427,283 73		427,283 73

E. & O. E.,

CHARLOTTETOWN, P.E.I.

(Sgd.) W. T. HUGGAN,

Accountant and Auditor.

### No. 3.—PRINCE EDWARD ISLAND RAILWAY.

Maintenance of Way and Structures—Twelve Months ended March 31, 1910.

	S c
	0.700
. 1. Superintendence	
2. Ballast	
3. Ties	
4. Rails.	
5. Other track material.	
6. Roadway and track	60,149
7. Removal of snow, sand and ice	11,930
9. Bridges, trestles and culverts.	
11. Grade crossings, fences, cattle guards and signs	
12. Snow and sand fences and snow sheds	
13. Signals and interlocking plants	14
14. Telegraph and telephone lines	2
16. Buildings, fixtures and grounds	6,916
17. Docks and wharfs	
18. Roadway, tools and supplies	
23. Stationery and printing	
25. Other expenses.	
20. Other expenses.	
	121,046

E. & O. E.,

(Sgd.) W. T. HUGGAN,

Accountant and Auditor.

CHARLOTTETOWN, P.E.I.

### No. 4.—PRINCE EDWARD ISLAND RAILWAY.

MAINTENANCE OF EQUIPMENT-TWELVE MONTHS ENDED MARCH 31, 1910.

	8	3 ct	S.
0. 28. Superintendence. 29. Steam locomotives—repairs. 35. Passenger train cars—repairs. 36. Passenger train cars—renewals. 38. Freight train cars—repairs. 39. Freight train cars—renewals. 47. Shop machinery and tools. 50. Stationery and printing. 52. Other expenses. 56. Work equipment—repairs.	3	5,798 5,005 1,485 1,398 5,471 1,130 1,	00 79 8-00 81 19 00 60
	79	9,258	20

E. & O. E.,

(Sgd.) W. T. HUGGAN,

CHARLOTTETOWN, P.E.I.

Accountant and Auditor.

### No. 5.—PRINCE EDWARD ISLAND RAILWAY.

TRAFFIC EXPENSES-TWELVE MONTHS ENDED MARCH 31, 1910.

	\$	cts.
No. 57. Superintendence	894	7 00 4 09 7 88
	968	8 97

E. & O. E.,

(Sgd.) W. T. HUGGAN,

CHARLOTTETOWN, P.E.I.

### No. 6,—PRINCE EDWARD ISLAND RAILWAY.

TRANSPORTATION EXPENSES-TWELVE MONTHS ENDED MARCH 31, 1910.

		\$ ct
. 66.	Superintendence	6,344 0
67.	Despatching trains	2,595 5
68.	Station employees	45,038 1
-72.	Station supplies and expenses	5,849 1
	Yardmasters and their clerks	2,000 8
74.	Yard conductors and brakemen.	1,935 2
-76.	Yard supplies and expenses	26 7
77.	Yard enginemen	4,226 0
78.	Enginehouse expenses—yard	1,005 7
79.	Fuel for yard locomotives	3,674 4
80.	Water for yard locomotives	80 0
81.	Lubricants for yard locometives	128 5
82.	Other supplies for yard locomotives	98-8
86.	Road enginemen	23,425 8
87.	Enginehouse expenses—road.	10,837 4
88.	Fuel for road locomotives.	46,682 4
	Water for road locomotives	2,064 3
90.	Lubricants for road locomotives.	898 5
91.	Other supplies for road locomotives	962 7
94.	Road trainmen	31.955 3
95.	Train supplies and expenses	7,071 1
-98.	Drawbridge operation	670 2
99.	Clearing wrecks.	46 6
100.	Telegraph and telephone—operation	7,013 0
101.	Operation floating equipment	222 4
103.	Operation floating equipment Stationery and printing.	5,787 1
105.	Other expenses	4.5
106.	Loss and damage—freight	278 1
	Damage to property,	56 6
109.	Damage to stock on right of way.	24 5
		211,004 7

### E. & O. E.,

### (Sgd.) W. T. HUGGAN,

CHARLOTTETOWN, P.E.I.

Accountant and Auditor.

### No. 7.—PRINCE EDWARD ISLAND RAILWAY.

GENERAL EXPENSES-TWELVE MONTHS ENDED MARCH 31, 1910.

	\$ cts
No. 113. Salaries and expenses of general officers  114. Salaries and expenses of clerks and attendants.  115. General office supplies and expenses.  116. Law expenses.  118. Relief department expenses.  119. Pensions.  120. Stationery and printing.  121. Other expenses.	6,142 67 5 54 1,148 87

E. & O. E.,

(Sgd.) W. T. HUGGAN,

CHARLOTTETOWN, P.E.I.

### No. 8.—PRINCE EDWARD ISLAND RAILWAY.

### GENERAL STORES ACCOUNT-12 MONTHS ENDED MARCH 31, 1910.

1909.	Dr.	\$ ets.	8 ets.	\$ ets.
March 31.	To balance brought forward		• • • • • • • • • • • • • • • • • • • •	77,442 27
1910.				
March 31	To Purchases during the year Charges from other departments Labour, &c Pay rolls		150,719 57 5,128 01 4,919 73 4,740 50	165,507 81
	Cr.			242,950 08
March 31	By issues during the year			183,643 90
	${ m Balance} = \left\{ egin{array}{l} { m Ordinary stores, including stationery} \ { m Fuel.} \ { m Roadway and bridge material.} \end{array}  ight.$	31,948 74 12,155 77 15,201 67	}	59,306 18

E. and O. E.

CHARLOTTETOWN, P.E.I.

W. T. HUGGAN,

Accountant and Auditor.

### No 9.—PRINCE EDWARD ISLAND RAILWAY.

GENERAL BALANCE-12 MONTHS ENDED MARCH 31, 1910.

Dr.	\$ ets.	, Cr.	\$ cts.
General stores. Post Office Department Station agents. Cash. Road and equipment—Suspense. Department of Marine and Fisheries. Canadian Express Company Intercolonial Railway Rents account. Suspense account. Judge Weatherbie. Charlottetown Steam Navigation Co. Militia Department. Local government of P.E.I. Toronto, Hamilton and Buffalo Ry	59,306 18 7,263 64 2,112 01 2,074 63 1,812 93 296 16 120 26 67 28 48 87 47 28 30 00 8 76 0 95 0 75 0 15	Dominion account	72,401 20 390 00 200 00 198 65

E. & O. E.,

CHARLOTTETOWN, P.E.I.

(Sgd.) W. T. HUGGAN,

### No. 10.—PRINCE EDWARD ISLAND RAILWAY.

### STATEMENT OF AVERAGES-YEAR ENDED MARCH 31, 1910.

of railway	$\frac{267}{444,837}$
mileage	
ain mileage	322,522
ar mileage	2,051,034
f earnings to gross earning.—	43*90
sengerPer cent.	
ight	48:07 8:03
ils and express	
arnings per mile of railway	1,195 03
engine mile Cents.	71.73
" train mile "	98.63
" car mile	15.56
f expenses to gross earnings—	0.00
intenance of way and structures Per cent.	37:94
intenance of equipment"	24.8
Afric expenses	0.30
insportation expenses	66 13
neral expenses	4:70
es per train mile—	
intenance of way and structures Cents.	37:41
intenance of equipment "	24.50
dic expenses	0.30
Insportation expenses	65 22
neral expenses "	4.6
es per mile of railway—	
intenance of way and structures Dollars.	453.36
intenance of equipment.	296.8
dic expenses	3.63
usportation expenses	790:28
neral expenses	56.50
tive and car repairs, per locomotive and car—	
comotives. Dollars	884.03
senger cars	309.58
ight cars	30.83

E. and O. E.,

CHARLOTTETOWN, P.E.I.

(Sgd.) W. T. HUGGAN,
Accountant and Auditor.

### PRINCE EDWARD ISLAND RAILWAY.

### STATEMENT OF RECEIPTS.

Months.	Passenger Traffic.	Freight Traffic.	Mails and Sundries.	Total.
1909—	\$ ets.	\$ ets.	\$ ets	\$ cts.
April	9,566 64	12,881 58	2,140 96	24,589 18
<u>М</u> ау	8,545 99	18,444 70	1,842 39	28,833 08
June	10,014 70	15,026 55	1,772 14	26,813 39
July	19,131 91	12,714 55	2,906 69	34,753 15
August	18,499 20 17,399 46	10,691 42 12,191 13	2,044 78 1,990 44	31,235 40 31,581 03
September	11,616 31	15,286 95	1,871 50	28,774 76
November	11,030 94	18,647 30	1,916 65	31,594 89
December	9,979 55	12,081 57	1,989 40	24,050 52
1910-				
January	7,445 08	6,796 55	2,014 83	16,256 46
February	7.185 95	7,804 22	3,006 93	17,997 10
March	9,661 10	10,806 59	2,128 09	22,595 78
1909-10.	140,076 83	153,373 11	25,624 80	319,074 74
1908-09	136,534 04	149,150 61	25,634 98	311,319 63

E. and O. E., CHARLOTTETOWN, P.E.I.

(Sgd.) W. T. HUGGAN,
Accountant and Auditor.

### PRINCE EDWARD ISLAND RAILWAY.

### Passenger Statement.

Months.	Lo	cal.	Thre	ough.	Total.	
Months,	Number.	Mileage.	Number.	Mileage.	Number.	Mileage.
1909—	20.100		100	0.010	02.000	505.044
April	$28,193 \ 23,665$	519,133 443,035	189 633	8,813 $29,378$	28,382 24,298	527,946 472,413
May June	22,307	465,324	1.197	65,503	23,504	530,827
July	43,106	1,017,302	2,711	124,733	45,817	1,142,035
August	35,472	790,051	5,044	221,495	40,516	1,011,546
September	33,489	873,302	4,113	194,651	37,602	1,067,953
October	24,851	506,980	2,381	117.896	27,232	624,876
November	$28,352 \\ 27,675$	525,617 $535,172$	1,589 1,099	75,111 $50.392$	29,941 28,774	600,728 585,564
December	21,010	000,172	1,0.75	00,004	20,114	000,000
January	19,146	397,686	280	13,587	19,426	411,273
February	18,711	409,117	96	4,772	18,807	413,889
March	26,649	564,032	90	4,281	26,739	568,313
1909–10	331,616	7,046,751	19,422	910,612	351,038	7.957,363
1908-09	314,401	6,679,808	18,357	896,259	332,758	7,576,067

E. & O. E.,

(Sgd.)

W. T. HUGGAN,

CHARLOTTETOWN, P.E.I.

### PRINCE EDWARD ISLAND RAILWAY.

### FREIGHT STATEMENT.

Months.	1909	-10.	1908 -09,		
Months.	Tons	Mileage.	Tons.	Mileage.	
April. May. Vune. uly. August. September.	7,989 13,147 10,756 8,385 6,766 7,711 10,433	267,012 433,732 386,067 276,330 253,094 271,779 363,784	5,365 10,422 10,755 7,892 7,783 8,443 12,244	203, 425 360,583 428,751 317,451 265,283 303,592 398,716	
November December January February March	13,277 7,682 3,956 6,634 9,005	433,042 253,313 162,758 210,302 252,645	12,944 12,904 8,432 6,097 6,723 9,030	452,504 283,614 234,501 240,474 310,124	
	105,741	3,573,858	106,090	3,799,0	

E. & O. E.,

CHARLOTTETOWN, P.E.I.

(Sgd.) W. T. HUGGAN,

### PRINCE EDWARD ISLAND RAILWAY.

Descriptive Statement of Freight Transported—Twelve Months ended March 31, 1910.

Products of.	Commodity.	Tons.
Agriculture	Grain Flour Other mill products. Hay Tobacco. Cotton Fruit and vegetables.	12,918 4,374 1,468 2,912 166 43 7,886
Animals	Live stock Dressed meats Other packing house products Poultry, game and fish Wool. Hides and leather	3,562 2,307 2,676 3,030 48 421
Mines	Anthracite coal . Bituminous coal . Stone, sand, and other like articles	313 7,523 2,959
Forest	Lumber	13,358
Manufactures	Petroleum and other oils. Sugar Naval stores Iron, pig and bloom Iron and steel rails. Other castings and machinery. Bar and sheet metal. Cement, brick and lime Agricultural implements. Wagons, carriages, tools, &c. Wines, liquors and beers. Household goods and furniture	811 907 48 439 598 564 145 1,334 711 287 288
Miscellaneous	Other commodities, not mentioned above	33,164
	Total weight	105,741

E. & O. E.,

(Sgd.) W. T. HUGGAN,

CHARLOTTETOWN, P.E.I.

### OFFICE OF THE CHIEF ENGINEER,

Moncton, N.B., June 29, 1910.

SIR,—I have the honour to submit the following report on capital account expenditure for the fiscal year ending March 31, 1910:—

### TO INCREASE ACCOMMODATION AT CHARLOTTETOWN.

A 20-stall brick and concrete engine-house was provided. The turn-table that was used in the old engine-house was temporarily installed in the new engine-house.

A new 55-foot steel turn-table was purchased; but on account of the closing of navigation it could not be transported to Charlottetown last fall. It will be delivered and erected in place at an early date.

The old engine-house was torn down.

A wood-shed was provided at the new engine-house.

A concrete and brick ash pit was built.

A coal shed was provided at the power-house.

A lumber and hardware storehouse was built.

Part of the old machine shop was torn down, and the remaining part converted into a brass and copper shop.

A shed for storing sand was built, and a sand drying apparatus installed.

A railway wharf and freight shed on it were completed.

A coal shed was built on the railway wharf.

A new 80-ton track scale was provided and placed opposite the new freight shed, on a concrete foundation.

Additional yard accommodation was provided by the removal of old and obsolete buildings, and laying 4,900 feet of new tracks.

The following new machinery was provided and installed on concrete foundations in the new shops:—

1 72-inch wheel lathe.

1 72-inch tire turning and boring mill.

1 48-inch x 12-foot iron planer.

1 300-ton wheel press.

1 24-inch engine lathe.

1 36-inch engine lathe.

1 18-inch engine lathe.

1 16-inch engine lathe.

1 16-inch slotting machine.

1 Brown & Sharpe milling machine.

1 Brown & Sharpe reamer and grinder.

2 centering machines.

1 Acme bolt tapper.

1 Acme 3-headed bolt cutter.

1 surface grinder.

1 emery stone sand.

1 hand press for driving boxes.

1 set punch and shears.

1 set 6-inch rolls.

1 set 12-inch boiler plate rolls.

1 tube rumbler.

1 tube welder and furnaee.

1 1,200-lb. steam hammer.

1 Beaudry hammer.

1 Spring furnaee.

1 strap furnaec.

2 band saws.

1 rip saw.

1 eutting off saw with motor drive.

1 variety wood worker,

1 Daniel planer.

2 50 h.p. motors.

1 pipe bending machine.

1 small hollow chisel mortiser.

1 75 h.p. engine and generator.

2 feed pumps.

1 super heater.

3 250 h.p. Canada Foundry boilers.

Steam heating was installed in the paint, upholstering and copper shops.

The new shops were wired for electric lighting.

### Branch Line, Harmony to Elmira. .

A contract was let for the grading, masonry, &c., for a branch line from Harmony to Elmira, a distance of 9.9 miles. About 75 per cent of the clearing was completed. The concrete culverts were built and some grading done. The right of way was settled for with the exception of a few lots, which will be dealt with during fiscal year 1910-11.

Plans and specifications were prepared and tenders asked for the following build-

ings in connection with this branch line:-

Elmira.—Two-stall wooden engine house, booking station and platform, eoal shed, freight shed and platform.

Baltic Road.—Way station and platform,

Harmony.—Way station and platform.

New Harmony Road.—Shelter and platform.

Munn's Road .- Shelter and platform.

To be located.—Two tool houses.

### Montague Branch.

An award of the Exchequer Court of \$36.15 was paid by the Department of Railways and Canals for land taken for the right of way. There was no capital appropriation provided for this, but being an Exchequer Court award, the amount is chargeable against any moneys voted by parliament.

I have the honour to be, sir.

Your obedient servant,

(Sgd.) WM. B. MACKENZIE,

Chief Engineer.

D. Pottinger, Esq., I.S.O.,

Asst. Chairman, Govt. Rys. Managing Board, Moncton, N.B.

OFFICE OF THE MECHANICAL SUPERINTENDENT,

CHARLOTTETOWN, P.E.I., April 15, 1910.

Sm,—I beg to submit for your information the following statement of the operation of the mechanical department for the year ended March 31, 1910.

The following is a summary of the principal work performed:-

### LOCOMOTIVES.

Ten locomotives received heavy repairs. Seven received new side and main rod brasses, all the motion and running gear thoroughly repaired, stay-bolts in boilers thoroughly examined, and six hundred new stay-bolts put in boilers.

Ten locomotives received specific repairs.

Four locomotives received new pistons and piston rods. Four new engine pilots and four new cross-heads were made, and twenty-eight lined with tin and planed, two new whistles, two new pop valves, four new boiler checks, four hundred and eleven sets metallic packing, four new sets valve stems, six new driving boxes, twelve sets engine truck boxes, six sets dead cyes for side rods, twenty sets new rod brasses, two piston rod cups, eight piston rod slushers, twenty-eight driving box brasses, one grease press for pressing grease for driving boxes, twenty-eight grease cups, twenty-seven cylinder cocks, four air cocks, one relief valve, twelve locomotive smokestacks, thirty smokejacks for round houses on road, and twelve driving springs were made.

Four pop valves, six tender tanks, two hundred and sixty-three driving springs and fourteen cabs were repaired, and four were largely rebuilt. Two engine frames were broken and repaired. Twelve sets valve stems, thirty-one sets driving wheels, twenty sets engine truck wheels, one hundred and sixty-three pairs of steel tired wheels, and one hundred and twelve new axles were turned. Two hundred and twenty-nine wheels were bored out and pressed on axles, eight hundred tubes pieced and put in locomotives and five hundred and fifteen truck straps bored. Eighty-eight thousand two hundred and six pounds of iron, and 2,553 pounds of steel were forged; 5,139 pounds of nuts were tapped, and a great deal of running repairs done.

### CAR DEPARTMENT.

One first-class car was rebuilt and ten flat cars were rebuilt and charged to renewals.

The following received heavy repairs:-

Ten first-class cars and one was upholstered, two second-class cars, three second-class and baggage, one second-class and smoking, three postal and baggage, five postal and smoking, five baggage, one coach, sixty-eight box cars, one coal car, five hand cars, one sheep car, eight snow ploughs and six flangers.

The following received light repairs:-

Fourteen first-class cars, fourteen second-class cars, two second-class and baggage, two baggage, one official car, twenty-four box cars, one postal and smoking, five old cars, one van, eight flat cars, four stock cars and eight snow ploughs.

Four ears were seated for excursions, two first-class cars and six box cars had cotton duck roofs put on, and five box cars had new trucks. Two hundred and eight sets car oil boxes were fitted up.

20 - 13

### BRASS FOUNDRY.

The following was the output of this foundry:-

Thirteen thousand, one hundred and forty-eight pounds of brass eastings, ninetysix pounds of bronze eastings and eighteen pounds of solder for Charlottetown station.

### COPPER SHOP.

Twenty-seven headlights, one headlight case, two discharge pipes, three oil pipes, one sand pipe, one elevator and feed pipe, two slides for reversing levers, two sprinklers, one elevator pipe, and lagging were repaired.

Thirteen wire joints for steam chests, three piston rods, one valve stem rod, five wire joints for valve stem and piston packing, two perforated hard grease strainers,

two water glass protections, and one overflow pipe were made.

Three truck brasses, one rod brass, seven driving boxes, six truck boxes and four crossheads were babbitted. Four crossheads and one main rod brass were tinned. We have also done numerous repairs to feed pipes too numerous to mention.

### PAINT SHOP.

Ten locomotives were painted, one varnished, and five cleaned and touched up.

Fonr first-class cars were painted, and six cleaned and varnished; six second-class cars were painted; and five cleaned and varnished; five baggage and postal cars were painted and eight eleaned and varnished, and one had roof painted. Seventy-two box cars, one hundred and twenty-eight box car roofs, eleven flat cars, two snow ploughs, three flangers, seven hand ears, and ten car roofs were painted. One hundred and twenty-two box cars were lettered, and fifty had capacity changed. Ten freight trucks, and thirty switch targets were painted, forty-eight sashes were painted and glazed, fourteen sign boards lettered, and two desks filled and varnished.

A great deal of work has been done by our shop painters for the road depart-

ment on stations, agents' dwellings, switch frames, &c.

### ROAD AND TRAFFIC DEPARTMENT,

Sixteen loading platforms, eighteen freight trucks, six eattle stages, two hand cars, twenty-three sectionmen's hand ears, two ash ears, one grindstone stand, twenty-four switch targets, twelve signal targets, forty-two sign boards, three boards to fasten outside lamps to, seven wheelbarrows, three chairs, four step boxes, ten coal boxes, one tool box, four iee boxes, five boxes for freight house, four letter boxes for offices, eight outside sashes, five door sills, six camp stools, one office stool, four ladders, one stand and box for grease compressor, two screens, one eash drawer, two desks, four work benches, one cupboard, seven water closets, one case, one desk and two boxes for time clock, one ash table for rest room, one pulley, one rail bender, twenty-two sets connecting rods, twelve sets headers, fifty-six knees for bridges on road, one hundred and twelve clasps for bridge, four lorries, two track jacks, eleven sets switch gear complete, twenty-six sets switch rods, four sets switch rods and headers, and two switches were made.

Three hand cars were repaired, and three rebnilt; eight freight trucks, one baggage truck, one trunk truck, nine coal boxes, eight track jacks, five frogs, and ten

switch rods were repaired.

Twenty-four squares of shingling were laid, and one shop and one coal house fitted up. Four hand-ear cranks made and fitted on lorries.

We were put to a great inconvenience on account of the round-house being torn down, but it is now replaced by a new and up to date twenty stall round-house which

gives us all the facilities we require. Our rolling stock has been kept in a high state of efficiency; and we have all the machinery installed in our shops, which. I consider, are modern and up to date in every respect.

I have the honour to be, sir,

Your obedient servant,

W. L. POOLE.

Mechanical Superintendent.

G. A. SHARP, Esq.,

Superintendent, P.E.I. Railway.

STATEMENT showing the number of Locomotives and the various classes of Cars and other Rolling Stock on March 31, 1910.

	Total.	18	13	H :	: 1	13	13	
_	Flangers.	6	G.			6	6	
	Snow Ploughs.	6.1	10	-:	1 :	9	10	ļ
	Total.	552 15	567	15	21	10 557	292	
	Platform.	138	147	Ç. 61	11 10	146	147	74.0
	Coal.	22	83			:81	83	TO DO DO
	Stock.	21	23			21.	12	
	Refrigerator Cars.	69	8			က	ಞ	,
CARS.	Boz Freight.	313	313			313	313	ž
CLASSIFICATION OF CARS.	Vans.	დ	7	7	7	-00	7	
FICATIC	Pay Car.	7	<u></u>			:	-	
CLASSI	Baggage.	4.01	9	01	çı :	ং স্থ	9	
	Combined Postal and Baggage.	ಣ್ಣ	7	- :	-	118	7	
	Postal and Smok- ing.	₹ :	4			7	47	
	Combined 2nd and Baggage.	53	. [~	G1 :	21	63.70	L-	
	2nd Class.	11 :	12	- m	ಣ	೫೦೩	21	
	lst Class.	83 :	23			88	23	
	Locomotives.	31	31			31	31	
		On hand, serviceable, March 31, 1909 Condenned, April 1, 1909	Total equipment, April 1, 1909	Condemned, April 1, 1909	Total condemned	To be rebuilt. Add serviceable and repairing.	Total equipment, March 31, 1910	

Signed, S. F. HODGSON,

Mechanical Accountant.

1 GEORGE V., A. 1911

STATEMENT of Mileage and Coal, Oil and Waste Consumed by Locomotives for the year ended March 31, 1910.

Signed, S. F. HODGSON,

Mechanical Accountant.

DETAILS of Accidents for the Period ending March 31, 1910.

.y.	. v of
Nature and Extent of Injury.	Sprained ankle. Back sprained. Sprained ankle. Toe bruised. Foot bruised. Rib fractured. Foot injured. Leg mjured. Leg mjured. Dislocated kidney. Hand sprained. Sprained muscles of side. Rib fractured. Sprained muscles of side. Fig fractured. Foot injured. Fractured and cot. Legs mjured. Figure injured. Figure injured. Figure injured. Figure injured. Figure injured. Figure injured.
Na Exten	Sprained ankle. Back sprained. Sprained ankle. To busised. Rib fractured. Foot bringed. Leg injured. Leg injured. Head mjured. Head mjured. Sprained muscl. Sprained muscl. Sprained foot. To sticle injured. Hand cut. Leg fractured. Five fractured. Sprained back. Thumbs crushed frottinged. Thumbs crushed. Foot injured. Hip strained. Sprained back. Thumbs crushed. Sprained foot. Legs injured. Thumbs crushed. Thumbs crushed. Sprained foot. Thumbs crushed. Sprained foot. Thumbs crushed. Thinger broken. Sprained foot. Thinger broken. Sprained foot. Thumb cut.
Cause.	Slipped into cattle guard Slipped while liming track Unloading car wheels. Extruck by bar fron Coal tub fell on foot Coal tub fell on foot Struck with lever of track jack Imm of coal fell on leg Lump of coal fell on leg Lump of coal fell on leg Made a miss blow while striking. Moving wheel Moving heavy casting Slipped off car steps Keplacing engine on track Fixing brake shoes Rail fell on leg Struck with plank. Chloading rails Coalong rails Struck give loger door Struck of the log of engine slipped and cut thumb Lighing hand car. Struck with closing car door Silpped while closing car door Slipped while closing car door Slipped while repairing semaphore Fixing band car. Slipped while repairing semaphore Fixing hand car. Slipped while repairing semaphore
Place of Accident.	Gharlottetown Charlottetown Nt. Stewart. Charlottetown Nontague Numerside Milton Muray Harbour. Cleary Fignish Kinkora Cleary Uligg Cape Traverse Charlottetown Summerside. Charlottetown Carligan Cape Traverse Charlottetown Summerside.
Name, Address and Occupation of Persons.	Charles Bradley, Grand View, section forenan William Hetheridge, Charlottetown, section labourer. James Mullins, Charlottetown, abourer. Hector MoLeod, Charlottetown, ifter's helper Bert Navosone, Charlottetown, machinist. Alphens Arsenault, Summerside, coal handler. James H. Patrudge, M. Stewart, section foreman. James H. Patrudge, M. Stewart, section foreman. James H. Patrudge, M. Stewart, section foreman. John O'Neill, Charlottetown, improver. Hector McDonald, Charlottetown, carpenter. Hector McDonald, Charlottetown, labourer. Martin Mahan, Charlottetown, labourer. John Currie, blacksmith, Charlottetown, labourer. John Harry Nelson, Charlottetown, locomotive dirent. H. J. Love, Charlottetown, locomotive firman. Harry Nelson, Clarlottetown, locomotive firman. John Howatt, Cap Traverse, section labourer. John Mc Gaudet, Tignish, section foreman. John Howatt, Cap Traverse, section labourer. Charles Bradley, Cardigan, section labourer. John Mc Gaper Traverse, cleaner. John Mc Gaper Traverse, cleaner. John Mc Glilis, Caper Traverse, cleaner. John Mc Glilis, Caper Traverse, cleaner. John Mc Glilis, Summerside, section foreman. William Gillis, Summerside, section foreman.
Date.	April 7    May 4   19   19   11   10

### PRINCE EDWARD ISLAND RAILWAY.

Accidents during period ended March 31, 1910.

Name of the state		GERS.	Емрь	Employees.		OTHERS.		TOTAL	
Cause of Accident.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	
1. Fell from cars or engine 2. Jumping on or off trains while in motion 3. At work on or near the track making up trains. 4. Putting arms or heads out windows. 5. Coupling cars 6. Collisions, or by trains thrown from track. 7. Struck by engines or cars on highway crossings. 8. Walking, standing, lying, sitting, or being on track. 9. Explosions. 10. Striking bridges. 11. Other causes.				8				8	
Total				31				31	

CHARLOTTETOWN, P.E.I., May 31, 1910.

## INTERCOLONIAL AND PRINCE EDWARD ISLAND RAILWAYS EMPLOYEES' PROVIDENT FUND.

THIRD ANNUAL REPORT.

MONCTON, N.B., May 21, 1910.

To the Honourable George P. GRAHAM,

Minister of Railways and Canals, Ottawa.

By instructions of the Provident Fund Board, we beg to submit for your information, the following report of the operations of the Provident Fund, for the fiscal year ended March 31, 1910.

The personnel of the Provident Fund Board for that year, was as follows:-

D. Pottinger, Assistant Chairman, Government Railways Managing Board, Chairman, Moneton.

W. A. Dubé, Superintendent, I.C.R., Levis.

T. C. Burpee, Engineer of Maintenance, I.C.R., Moncton. by the Minister.

James W. Nairn, Engineman, I.C.R., Truro. Elected by the
W. Milledge Thompson, Conductor, I.C.R., Moncton. Employees.

Four regular meetings, and one special meeting were held by the board during the year,

The following is a statement of the receipts and expenditures during the year ended March 31, 1910:—

	1 GEORG	E V., A. 1911
Balance at the credit of the fund on March 31, 1909 The contributions made by employees during the year were. The contributions made by the railways during the same	\$ 69,949 70	\$225,898 31
period were	69,949 70 483 06 6,314 32	
-		*146,696 78
		\$372,595 09
*Note.—Amount credited by railways to the Provident Fund during the year \$134,785 55 Amount accrued in March, 1910, but not credit-		
ed until May, 1910 11,911 23		
\$146,696 78		
The expenditures were:—		
For retiring allowances		
Contributions refunded in the cases of deceased employees. Contributions refunded, which were deducted in error	300 65 5,120 22	
Contributions refunded to discharged employees Medical examinations—	123 75	
Probationers entering service	1,662 00	
Employees retiring from service	67 00	
Election expenses	462 56	
Salaries and travelling expenses, sccretary's office	4,474 20	
Board members	77 99	
Stationery, printing, &c	1,093 44	117,010 01

\$255,585 08

The following statement will show the amount which was contributed by the railways, and the amount which was contributed by the employees, to the Provident Fund, in each fiscal year, since the fund has been in operation. It also shows the number of employees retired, the number of deaths among the same, and the amount paid for retiring allowances, in each year. The average amount of the retiring allowance paid in the month of March, 1910, is also shown:—

For Fiscal Year.	Amount Contributed by Railways.	Amount Contributed by Employees.	No. of Employees placed on Fund.	No. of Retired Employees Died.	Amount Paid for Re- tiring Allowances.	Average Allowance Paid in March, 1910.
	\$ ets.	\$ ets.			\$ ets.	\$ ets.
1907-08	82,707 74	82,707 74	142	11	23,913 04	
1908-09	75,306 41	75,306 41	88	17	64,067 63	
1909-10	69,949 70	69,949 70	168	17	103,628 20	26 30

It will be seen that the amount paid for retiring allowances during this year, is very much larger than the amount which was paid last year on the same account. A reference to last year's report will show that this increase was expected.

The Act provides that two members of the Provident Fund Board, shall be elected annually, and it was therefore necessary in January, 1910, to arrange for the election of these two members, to serve during the year ending March 31, 1911.

Notices ealling for the nomination of candidates, was accordingly posted, as re-

quired by the rule, and the election was held in February, 1910.

The two members elected were:-

W. MILLEDGE THOMPSON, Conductor, I.C.R., Moneton. WILLARD P. HUTCHINSON, Train Despatcher, I.C.R., Truro.

The personnel of the board as at present constituted, is as follows:-

D. Pottinger, Assistant Chairman, Government Railways Managing Board, Chairman, Moncton.

W. A. Dubé, Superintendent, I.C.R., Lévis.
T. C. Burpee, Engineer of Maintenance, I.C.R., Moncton.
W. Milledge Thompson, Conductor, I.C.R., Moncton.
WILLIARD P. HUTCHINSON, Train Despatcher, I.C.R., Truro.

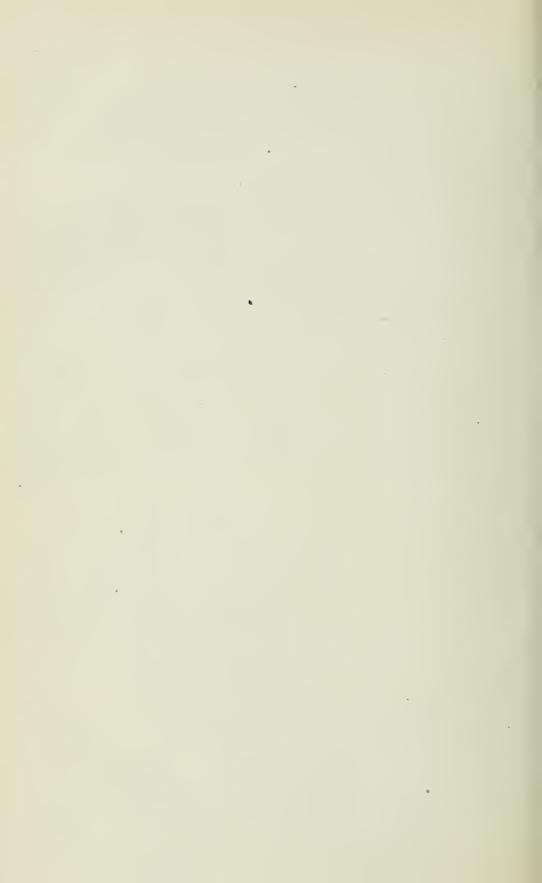
Appointed by the Minister.
Elected by the employees.

### D. POTTINGER,

Assistant Chairman, Government Railways Managing Board, Chairman.

W. C. PAVER,

Secretary.



#### PART IV

# REPORT OF THE GOVERNMENT CHIEF ENGINEER OF THE WESTERN DIVISION OF THE NATIONAL TRANSCONTINENTAL RAILWAY

MR. COLLINGWOOD SCHREIBER, C.M.G.



Office of the General Consulting Engineer to the Government and Chief Engineer of the Western Division of the National Transcontinental Railway.

OTTAWA, Canada, May 2, 1910.

The Honourable George P. Graham, Minister of Railways and Canals, Ottawa, Ontario.

SIR,—I have the honour to submit my annual report on the condition of the western division of the National Transcontinental Railway for the fiscal year ended March 31, 1910, covering also the period between that and the present date.

The total length of this division is about 1,751 miles, divided into two sections, viz.:—The 'Prairie Section' which extends from the west bank of the Assimiboine river, in the city of Winnipeg, to the east bank of Wolf creek, a distance of 915 miles, and the 'Mountain Section,' extending from the east bank of Wolf creek to the western end of the city of Prince Rupert, the Pacific coast terminus, a distance of about 836 miles.

#### PRAIRIE SECTION.

The entire section is graded and the structures are built. The main line track is laid and sidings have been constructed at 138 stations, aggregating 140½ miles in length.

Four hundred and seventy-four miles of maiu line are fully ballasted; 350 miles have a first lift of ballast of about five inches in depth, and there remain 35 miles of skeleton track between Eutwhistle and Wolf creek. The embankments on this 35 miles are largely composed of muskeg, so soft that the track had to be laid on the winter season when the ground was frozen solid. The work of covering these soft muskeg embankments with several feet of sand is now in progress; this will not only do good service in holding the embankments in shape when the frost is coming out of the ground, but also in preventing the muskeg from taking fire.

The fencing of the line is well advanced, there having been 732 miles of double

fence erected.

A telegraph line has been built over the entire 'Prairie Section' of 915 miles, of which 793 miles is a four-wire line and 122 miles a two-wire line.

Eleven interlocking plants have been established at rail level crossing of other railways.

Water services have been introduced at 49 stations. Some of these have, however, proved unsatisfactory, both as regards the quality and quantity of water, and will probably have to be abaudoned and other means of procuring water resorted to.

Six round houses have been built, viz.:—At Rivers, 18 stalls; Melville, 12 stalls; Watrous, 12 stalls; Biggar, 12 stalls; Waiuwright, 12 stalls; Edmonton, 18 stalls; and two small engine houses have also been crected—one of two stalls at Portage la Prairie and one of two stalls at South Saskaton.

Machine shops have been built at Rivers, Melville and Edmonton, three divisional stations.

The round house at Rivers was damaged by fire on the 8th of December, 1909, and the blacksmith shop at the same place was destroyed by fire on the 14th November, 1909.

Five divisional station houses, 26 way station houses, 54 section houses, 66 tool houses, 79 bunk houses, 5 coaling plants, 80 permanent and 22 temporary loading platforms, 18 stock yards and 115 grain elevators have been creeted.

The grain elevators were built at the stations along the line by private enterprise. The station house at Rivers was damaged by fire on December 8, 1909, and the way station houses at Uno and Bradwell were destroyed by fire on August 16, 1909,

and February 14, 1910, respectively.

The portion of the road between Winnipeg and Edmonton—795 miles—has been regularly operated for public traffic since September 13, 1909, under authority of the Board of Railway Commissioners. On the 120 miles west of Edmonton, though there is no regular operation, there has been attached to the construction trains since February 1, 1910, a combination passenger and freight car for the convenience of those concerned; this course being adopted in view of representation made in the matter in order to meet the demands for this accommodation pending the completion of the section. The main object of running the trains over this 120 miles was to carry to the front the large quantities of plant and supplies required for distribution along the works on the 'Mountain Section,' preparatory to commencing construction operations upon the opening of the working season, and the object has been satisfactorily attained.

#### MOUNTAIN SECTION.

Location plans and profiles have been approved by the government and the Board of Railway Commissioners from Wolf creek westward for a distance of 289 miles, and from Prince Rupert easterly for 409 miles, leaving a gap of 138 miles, the location plans and profiles of which have not yet been submitted by the Grand Trunk Pacific Railway Company for approval.

Of the 289 miles from Wolf creek westerly, only 179 miles have, as yet, been put under contract, for this Messrs. Foley, Welch and Stewart are the contractors.

As the contracts were only awarded late last antumn very little work has been done beyond the first mile west of Wolf creek. The work on this mile is very heavy, there being two large steel bridges to be erected and a cutting of over 130,000 cubic yards to be taken out. The first structure will be 622 feet in length and 130 feet high, crossing Wolf creek. The second structure is to span the McLeod river; it will be 1,052 feet long and 125 feet high. The concrete piers, pedestals and abutments of these two bridges are completed in readiness to receive the superstructure. The large cutting containing over 130,000 cubic yards, lying between these two bridges is sufficiently advanced towards completion to admit of the track being laid through it. The false work over the Wolf creek is completed, and tracklaying will at once be carried forward to the McLeod river in order that the steel superstructure of this bridge may be transported by train.

The work of excavation in the 'big cutting' between Wolf creek and the McLeod river is being treated by me at the contract prices per cubic yard according to classi-

fication.

The erection of the superstructure of these two bridges will be carried on simultaneously, so as to have them completed at the earliest possible date in order that the tracklaying may be proceeded with during the ensuing summer season, so that the cost of transportation of supplies and plant for the sections of road not yet under contract may be greatly reduced, thus affecting favourably the tenders for the work.

The word executed westward from the McLeod river is inconsiderable, being chiefly composed of about 1.640 acres of clearing, the moving of about 240,000 cubic yards of excavation, the delivery and driving of piles for a number of pile bridges, as well as the delivery of a quantity of timber for same. However, the line is well provided with the requisites in the form of supplies and plant for energetic prosecution of

the work, and I learn that the force is already being considerably increased, so that by the time the frost is out of the ground, which will probably be about the middle of May, it is expected a large body of labourers will be employed.

During the winter season over 3,600 car loads of plant and supplies reached Wolf creek, and were at once forwarded and distributed by teams along the line of

work.

Of the 409 miles from Prince Rupert easterly, the location of which is approved, 240 miles only are under contract. Messrs, Foley, Welch and Stewart are the contractors.

Of the first 100 miles out of Prince Rupert easterly the grading and culvert structures are far advanced towards completion, and a few pile bridges have been built, leaving a number yet to be constructed. Of the six steel bridges to be built, beyond the delivery at Prince Rupert of one cargo of steelwork and the manufacture of the balance of the steel superstructures, which I understand are ready for shipment to Prince Rupert, very little has been done. The only steel bridge concrete substructure that has so far been commenced is that of the bridge over the Zanardi rapids, of which the two abutments and one pier are nearly completed for it and the building of the caissons for the remaining four piers is well advanced. However, the delay in the building of these permanent structures will not prevent the tracklaying being proceeded with. So soon as the steel superstructure of this Zanardi rapids bridge is erected, the temporary pile structures to be used as false work for the erection of the remaining steel superstructures being constructed of sufficient strength to earry the tracklaying trains will be finished.

About seven miles of track have been laid easterly from Prince Rupert, and sufficient rails and fastenings have been delivered to cover 200 miles, together with

enough ties for 100 miles.

A wharf has been built at Prince Rupert and is in general use.

On the 140 miles east of the first 100 miles very little work has been accomplished during the past winter season. A few rock cuts have been opened and a tunnel is being driven; nothing much can, however, be done until the opening of navigation on the Skeena river, when, no doubt, the supplies and plant now lying at Prince Rupert will be rapidly brought up in the contractors' steamers.

The Skeena river, it appears, was last year frozen over a month earlier than in former seasons, thus preventing the contractors from supplying the works for this

140 miles with the necessary outfit.

No station or other buildings have up to the present date been erected on this

240 miles, excepting the warehouse on the wharf at Prince Rupert.

It is a matter of much gratification to bear testimony to the faithful and satisfactory manner in which the several government inspecting engineers have discharged their duties, and to find that the division engineers of the Grand Trunk Pacific Railway Company have always given a ready ear and fair consideration to any eomplaints or suggestions they may have made, either as to the location of the line or as to the works of construction. I may say that the chief engineer of the company has frequently expressed to me his view that as the inspecting engineers have such great opportunities of observation in their personal examination of the works, it would be an assistance to his staff to have their attention so drawn to any matter which appeared to need consideration.

I have the honour to be, sir,

Your obedient servant.

(Sgd.) COLLINGWOOD SCHREIBER,

Chief Engineer of the Western Division of
the National Transcontinental Railway.



#### PART V

### PROGRESS REPORT

ON

### HUDSON BAY RAILWAY SURVEYS

BY

MR. JOHN ARMSTRONG
Chief Engineer of Survey



OCTOBER 30, 1909.

Hon. George P. Graham,
Minister of Railways and Canals,
Ottawa, Ont.

Sm,—I have the honour to report upon the Hudson Bay Railway project, as follows:—

Mr. John Armstrong, B.A., B.A.Sc., M. Can. Soc. C.E., was appointed Chief Engineer in the fall of 1908. He promptly organized four parties and carried on his work in a most satisfactory manner, and to him and his assistants credit is due for an efficient piece of work. Lines were run to Fort Churchill and Port Nelson from The Pas Mission, and contours were taken closely enough to enable a projected location to be made that reasonably assures accurate quantities; and detailed surveys were made of the harbour of Fort Churchill and Port Nelson—and an important river crossing.

The basis of Mr. Armstrong's estimate is given in full detail. He has estimated for 60 pound rails; I have increased his estimate to provide for 80 pound rails and fastenings; and as he has not estimated for round houses, shops, buildings, elevators and yard facilities at terminals, or harbour works, I have accordingly estimated for these items.

I find considerable difficulty in deciding upon what basis to provide accommodation for a railway that, in the nature of things, cannot be operated to its capacity for more than two months in the year—to a lessened extent for a possible three months, and for the remainder of the year still less. I have, however, provided facilities on a scale that will admit of the maximum capacity for a single track; passing tracks and telegraph stations every five miles, water stations every fifteen miles, and round house and shop accommodation sufficient to care for thirty-two (32) freight trains and one (1) express train per day of twenty-four (24) hours.

Mr. Armstrong has discussed the merits of the harbours at Churchill and Nelson; and as he has furnished plans with soundings, I have plotted the piers and terminals required.

From the information, there is no room for doubt that Nelson is much the better harbour. The line is also shorter by 67 miles, the country through which it runs is better, and the possibility of local business altogether with the Nelson route. There is also a probability that a fair proportion of the route is available for settlement; whereas on the Churchill route, there is no such probability beyond Split lake, where the lines separate.

It is of the utmost importance that a hydrographic survey should be made of the Hudson strait and bay, so that the position and cost of the necessary lighthouses may be ascertained. This work properly belongs to the Marine Department, and is important enough to demand the personal attention of its most capable officer; and while in progress, complete observations should be taken by reliable men stationed at Cape Chidley and Resolution island, at the mouth of Hudson strait, at Salisbury

island near the junction of the Fox channel, and at Mansfield island, as well as at the mouth of the Nelson itself. The course from Mansfield island to Nelson requires to be accurately chartered, and the exact positions of the lighthouses necessary at the mouth of the channel should be fixed. It would be well to also secure information as to the harbours on the Labrador coast, and the special feature of Davis strait. A good sea-going boat is required at Nelson for a year or two, to study the bay itself, its tides, currents, &c. Particular study should be made of the mouth of Ungava bay; and also as to all harbours of refuge along the route and the best way to approach them, where safe anchorage may be had, &c. A lighthouse will be required at the most southerly end of Greenland.

The route will pass to the north of Ireland, and the distance from Liverpool to Port Nelson as measured on a mercator projection map, is 3,200 miles—against 3,007 from Montreal to Liverpool.

The crux of the matter is—what business can be handled by such a railway, and of what value it is likely to be to the country tributary to it? The general map of the Northwest, which accompanies the report, shows, by concentric circles, the areas tributary to Pas Mission (the starting point of our line) and Winnipeg. For all praetical purposes the city of Winnipeg is as close to Fort William as The Pas is to Hudson bay at Port Nelson, hence they may be compared as radiating points.

A line drawn from Dauphin, Man., in a southwesterly direction passing through Weyburn, Sas., separates the tributary territory. Practically the whole of the province of Manitoba. and about 11,000 square miles of the southeasterly corner of Saskatchewan, is tributary to Winnipeg; the whole of the remaining area of Saskatchewan and Alberta belonging to The Pas. This immense district is equal in area to the states of North and South Dakota, Minnesota, Wisconsin, Nebraska and Iowa, where there is a population of about 10,000,000, and a railway mileage of about 50,000. I think that, square mile to square mile, the fertility of the northwest is at least equal to the states named.

Assuming that the line is to be worked for all that is possible to be done. The grades are 0.4 or 21 feet to the mile. All trains are fully loaded and composed of 40 ton pay load cars; and locomotives of the Mallet articulated compound type are to be used with a hauling power of at least 4,000 tons of pay load. Thirty-two (32) trains per day is about the capacity of a single track—better than this has been done, but it is enough.

Sixteen (16) trains loaded=64,000 tons per day—making allowance for aecidents and delays—say for 30 working days we get 1,930,000 tons, or 64,000,000 bushels of wheat.

I assume that ships can be secured wherever there is sufficient business offered. It is apparent that at least nine per day would need to be loaded, or say 135 to 140, to do the business—allowing 2 trips to each ship. Any additional business taken to the bay would have to be stored until the following August—nine months.

Other sources of traffic possible to the line are: the exportation of eattle; the usual package freight to and from Europe; and the possibility of developing a reasonably large import coal trade. I believe it is practicable to lay down coal at Port Nelson from Nova Scotia at a cost not exceeding \$3.75 per ton. The rail haul say to Sas-

katoon—as an average point of distribution—need not exceed \$4 per ton, making the cost of the coal \$7.75. At present, I believe, it costs quite \$9 in the same territory.

Equipment for thirty-two (32) trains per day of the character outlined will cost about \$9,000,000; and means the providing of 108 train crews, 150 telegraph operators, 54 gangs of section men, shopmen, round house men, superintendents, train and yard masters—the greater number of whom are not likely to be required once the rush of the season is over. It appears, therefore, to be a difficult proposition for independent operation, and would seem to require to be worked by one of the large corporations, so that the men and rolling stock could be utilized the whole year. There is in Canada only one locomotive of the type described, and by using the largest freight engines now operated on western roads the train load would be reduced one-half—and the capacity of the road in like measure.

It is apparent, however, that under any circumstances grain may be placed at the Hudson bay on board ship as cheaply as at Fort William, hence the saving possible is 5 cents per bushel, assuming that insurance and freight rates are equal at Montreal and Port Nelson. Captain Bernier is of the opinon that it is unsafe to be caught in the vicinity of the Fox channel with a steamship of ordinary construction any later than October 15.

Mr. Armstrong's report will be found attached hereto.

I have the honour to be, sir,

Yours faithfully,

M. J. BUTLER,

Deputy Minister and Chief Engineer.



Mr M. J. BUTLER,

Deputy Minister and Chief Engineer,
Department of Railways and Canals,
Ottawa.

Dear Sir,—I herewith beg to submit a general report on the results of the preliminary surveys in connection with the proposed railway to Hudson bay, and undertaken in accordance with your letter of instructions, dated July 10, 1908.

#### ORGANIZATION.

Four parties were organized and started to work at various points between The Pas and Fort Churchill, dividing the territory to be covered into sections of approximately 120 miles each. Another small party, No. 5, was organized for the purpose of exploratory work whereby much general information was obtained, and the running of much unnecessary lines by the regular parties avoided.

During the progress of the work more information about the Nelson river was obtained, and seemed to justify an examination of that route, as well as the route to Churchill. On the completion of their exploratory work, Party No. 5 was re-organized and allotted to this work, and to a preliminary survey of the harbour at the mouth of the Nelson river. In order that no hitch might occur in the transportation and supply arrangements, Mr. E. H. Drury was established at Split lake as divisional engineer, supervising the work of Parties 3, 4 and 5.

Parties 1 and 2 were despatched from Winnipeg on August 30, to The Pas, going by rail to Prince Albert and thence by Hudson Bay Company's steamers down the Saskatchewan river to their destination. Party No. 1 commenced work on September 14, about 40 miles north of The Pas. Party No. 2, owing to the long and difficult route adopted, did not arrive on their work until November 7, the last of the five parties to commence work. Since then we have discovered a much easier and quicker route to the work, and could do the same work now in less than half the time and for half the expense.

Parties 3, 4 and 5 left Winnipeg on September 19, going by way of Lake Winnipeg and the Nelson river to their destination. Party No. 5 commenced work on October 5, No. 3 on October 24, and No. 4 on October 29.

Parties 1 and 2 completed their work and were disbanded on March 11 and 24, respectively. Party No. 3 and the Split Lake Division office was disbanded on April 6.

Parties No. 4 and 5 completed their work on the railway lines about April 1, and were thereafter engaged on the harbour surveys, No. 5 completing their work and disbanding on July 6, and No. 4 on August 13.

The health of the parties throughout the work was uniformly good; not a single serious accident or case of sickness being recorded on all the work.

#### COST.

The total cost of the work, including all returns to date of September 30, with outstanding accounts yet to be settled, totals \$130,716.09. A few of the outstanding accounts are in process of adjustment, but the final result will not differ materially from this total.

Since commencing location, supplies and equipment to the extent of \$5,952.34 have been taken over for location work, leaving \$124,763.75 to charge against preliminary work, and distributed as follows: Survey of railway routes, \$101,123.75; survey of harbours, \$23,640. This cost is largely due to the extra expense of transportation through such a country, a considerable portion being due to the fact that the work on the Nelson route was not taken up until well on in February, thus obliging us to pay winter rates for the transport of provisions along this route. The experience of the Canadian Northern and Grand Trunk Pacific seems to indicate that it usually costs from \$300 to \$500 per mile to secure a final location in such country as this. During the progress of our work much information has been gained relative to transportation routes, which will enable us to greatly reduce the cost of supplies in future, and although the preliminary work has seemed costly I do not expect that the cost of the final location will be greater than that usually obtained in such countries.

During the time when all parties were at work there was an average of about 110 on the pay-rolls.

#### METHODS USED.

The surveys were made in the usual way with transit level and chain. Contour topography was taken over the greater portion of the line, as well as all lakes, swamps and other points of interest in the vicinty of the line. In order to illustrate more fully the class of information obtained by the engineers in the field a plan and profile of a representative portion of the line are being forwarded to you. This will probably show more clearly than any description could do, the character of the information upon which the estimate of the cost of construction has been based. This plan is exactly as turned in by the engineer in the field.

In making up the estimate different methods of dealing with stream crossings were frequently adopted, this plan only being intended to illustrate the information obtained.

#### NATURAL RESOURCES.

The timber along the proposed route to Churchill has been described in the preliminary report of February 15, 1909. The work on the Nelson route since then has, however, developed the probability that the timber which may be available by the opening of that route is of much greater value than usually supposed. The whole country is full of lakes and streams, and different parties passing through by different routes have found most of the lakes and streams bordered by areas of timber of commercial value. These areas vary in size from a few acres to some as large as forty or fifty square miles, and in the aggregate totaling several thousand square miles. We have no means of making an approximate estimate of the quantities, as large areas though tributary to the railway route lic far to one side or other of any probable location of the liue, and consequently were not visited by the engineers. However, the information obtained is of such a nature as to warrant the recommendation that a thorough examination be made of the timber resources of this territory by competent timber cruisers.

#### ARGRICULTURAL LANDS AND MINERALS.

No further information can be added to that already given in the report of February 15. It will be remembered that the greater portion of this work was completed during the winter months when the ground was frozen and covered with snow, rendering it impossible to obtain much information on these subjects.

It may be remarked here, however, that although these lands may require more or less improvement in the way of clearing and drainage, the fact that they are situated

within a few hours' run of an ocean port may give to these lands a value not hitherto thought of, and may cause a more rapid settlement than expected. At the inland Hudson bay posts all kinds of grain and vegetables have been grown successfully for years. A study of the records of the Meteorological Office indicates that the climate is quite favourable for farming operations as that of Prince Albert. Our own records extending only from November to March simply corroborate the general impression that it is very cold during the winter months, but furnish no information as to the conditions during the summer, or growing season.

Our definite knowledge of minerals is limited to limestone and marble. The limestone occurs in the southern portion of the line a short distance from The Pas, in unlimited quantities favourable for quarrying, and will probably prove the future source of supply for the greater part of the province of Saskatchewan and Manitoba.

Marble of a very high grade occurs on Marble island in Hudson bay, and is also

found of a fair quality at Fort Churchill.

Iron ores, gold, silver, galena, mica and other minerals have been discovered by the Geological Survey at various localities on the bay, all of which are fully described in the reports of that department.

Various specimens of the precious metals have been shown to our engineers, but their origin was preserved in so much mystery that they could not be treated as evidence of the existence of the metal in that territory and might have been used with equal effect to demonstrate the richness of a deposit in Colorado or Johannesburg.

#### FISH.

All the evidence obtainable points to the existence of various varieties of fish of good quality in Hudson bay in large quantities. This should be of great value to the west, as fresh fish can be laid down in twenty-four hours at all the main centres in Manitoba and Saskatchewan. This will largely be an express traffie, and according to recent investigations of the Railway Commission this seems to be a remunerative business, and should prove a source of great profit to the Hudson Bay railway.

#### STREAMS AND WATERWAYS.

The principal waterways of the country traversed by the surveys were described in the report of February 15. Since then a general map has been prepared showing, in addition to the streams described, the extension of these waterways throughout the west, together with the railway system as it exists at present. The map shows the principal waterways which are susceptible of development for purposes of navigation, and shows the extent to which they may become feeders of the Hudson Bay railway. These waterways have all been recently navigated by vessels of considerable size. During the summer of 1908 the steamer Alberta made the trip from Edmonton to Winnipeg where she is now engaged in the excursion business. During the past summer a good sized steamer made a return trip on the South Saskatchewan between Medicine Hat and Saskatoon, and in the month of June a number of business men from Grand Forks, North Dakota, made a successful exeursion trip from Grand Forks to Winnipeg and return via the Red river.

An approximate estimate of the discharge of the Nelson river gave results as follows:—No. 1, 156,869 cu. ft. per second; No. 2, 149,693 eu. ft. per second.

In the first measurement the velocity was obtained by means of floats, and in the second by means of a current meter borrowed from the Department of Public Works.

Below this, several large streams enter, and many small ones, so that the diseharge at Port Nelson is probably not far from 200,000 cu. ft. per second. The dise

charge of the Churchill river has been roughly estimated as 40,000 cu. ft. per second at low water.

On the general map is also shown a proposed extension of the railway line southerly to connect with the existing railways.

One projection is shown along the Carrot river from The Pas to Saskatoon. At Saskatoon connection is made with lines leading to most of the principal centres of trade in the provinces of Saskatchewan and Alberta.

This line will also open up a very fertile country along the Carrot river and give an outlet for valuable timber areas along the northern slope of the Pasquia Hills. This line will be through open prairie country and a first-class road can be built for \$20,000 per mile.

Another suggested extension is from the southern terminus of the Canadian Northern Railway's Pas branch to Yorkton, giving communication with Regina and other centres in eastern Saskatchewan and western Manitoba. This line will also be prairie work and should not exceed \$20,000 per mile for a good read.

#### THE CHURCHILL ROUTE.

The first section of approximately 120 miles is through a comparatively level or smooth country, affording casy grades and cheap construction. The territory is underlaid with limestone in horizontal or flat beds, rarely rising above the general level to any extent, and when it does so it is in a way as to be easily avoided by the railway line. Owing to this condition the rock cutting ou this section will be practically nil.

The balance of the grading on this section will largely be in clay loam material, probably 70 per cent, the remainder being of sand, gravel and swamp or muskeg. It may be remarked here that what is called muskeg in this country is not a true muskeg, but would be more properly defined as swamp. Good bottom is usually obtained at a depth of three or four feet, and very seldom exceeds 7 or 8 feet.

The stream crossings will be light, with the exception of the Saskatchewan river crossing. Frog river, the connection between Moose lake and Cormorant lake, is a navigable stream for small boats, and as we cross it very low down it will probably be necessary to provide a swing span of some kind. As a fifty or sixty foot opening will do, the sum required will not be large.

Since taking up the location work it has been found possible to practically eliminate the hump shown at mile 25 on the condensed profile, and with good prospects of materially improving the hump at mile 55.

The second section of 120 miles is through granite country, and although the same general characteristics are preserved the granite ridges are more abrupt, and will force us to take some rock cuttings, although fortunately most of them will be small. All the streams and lakes throughout these two sections possess more or less valuable timber of which the accompanying photograph is an illustration.

From the 240th mile to the 360th mile we have the roughest country encountered, and considerable exploratory and extra preliminary work has failed to find any better route than that adopted. In this territory is included the rise between the basin of the Nelson river and that of the Churchill. The actual height of the summit between the two rivers is not very great, but both approaching and leaving this summit a heavily rolling or undulating country is encountered, and requires the development of a considerable length of line, and the introduction of much curvature to secure the grades adopted, at a reasonable cost. On the Nelson river side of this ridge a considerable amount of heavy work will be necessary, but on the Churchill slope although the yardage to be moved will be heavy it is not anticipated that much rock will be encountered.

The fourth section, extending from the 36th mile to Fort Churchill, will require the moving of only a light yardage, but the northern 70 miles being over the tundra, or barren lands, may prove to be a more expensive piece of work than the profile would indicate. Mr. W. J. Clifford made a trip through this section in the month of June for the purpose of examining it after the snow had disappeared. He does not anticipate any serious difficulty or danger in constructing this section, the chief drawback being from the fact that although the material is such as would usually be classified as common excavation, so much frost will be encountered that probably a considerably greater price will have to be paid for its handling than for common excavation.

The timber over sections 3 and 4 is not of very much value. A few ties and some

timber for temporary work may be obtained, but only in small quantities.

The bridging on the whole will average light, the only two bridges of great importance being the Saskatchewan crossing and the Deer river crossing about mile 350.

As intimated in the notes on the estimates, a considerable number of small pile structures have been designed for the purpose of furnishing ample waterway until a sufficient observation of the stream will better enable us to specify a suitable permanent structure.

The curvature as estimated from the projected location averages 9° 55′ per mile. The grades adopted, viz.: 4 northbound and 6 southbound, have been obtained without great effort and although some development was required on section 3, the easo with which they were obtained on the remaining sections seems to justify their use all through for the sake of uniform grades on all engine divisions.

#### THE NELSON ROUTE.

The route selected towards Port Nelson follows the Churchill route for some 150 miles or thereabouts, the description of which has been given. Unlike the Churchill route, the Nelson route does not resolve itself into natural divisions each presenting different characteristics peculiar to itself, but throughout maintains a generally uniform appearance, so that the description given for the first division of the Churchill route may be applied in a general way to the whole of the Nelson route. It is not expected that the rock work will amount to very much, the major portion of the grading being in clay loam with smaller percentages of sand, gravel and swamp. The tundra is not encountered on this route, the whole line being through timber not appreciably different from that described on the first 200 miles of the Churchill route. It may be mentioned here that sand and gravel has been found sufficiently often to justify our belief that ballast may be had without unduly long hauls, except on the northern 70 or 80 miles of the Churchill route. It may be found there, but as yet we have not noted it. The curvature has been estimated to average about 5° 30' per mile over this route.

A grade of .4 both ways may be had on this route.

The adoption of ·6 against southbound traffic would not help alignment nor save grading.

There are three important bridges on the Nelson route, viz.: the Saskatchewan, tho crossing of the Nelson at Manitou rapids, and the second or lower crossing of the Nelson. The Manitou crossing of the Nelson is a particularly favourable crossing, the river here being confined in one channel of less than 350 feet in width, the banks being of merely perpendicular granite rock and so situated as to make it possible to choose almost any desired elevation between fifty and one hundred feet above the water. Water here is of course very deep, and has a current of from six to eight miles per hour, making it necessary to cross with either a single span or an arch. The lower crossing will be much longer, probably 3,000 feet, from grade to grade, with a waterway of 1,500 feet with the grade line approximately 80 feet above the water. The

balance of the bridging will be light, trestles being sufficient in all cases with the exception of Frog river.

#### HARBOUR WORK.

The plans and reports of the terminal work having already been sent yon, it will only be necessary to treat briefly of the object with which this work was undertaken.

It has been endeavoured to treat the subject not as a problem by itself, relating only to the sheltering of ships, but to treat it as one feature only of the problem of the Hudson bay route as a whole. To this end it was necessary to consider and obtain all possible information relating to roadsteads, entrance channels, harbourage, docks, facilities for providing railway terminals and other works necessary for the transhipment of goods, length of season open to navigation, ice condition, and possible future inland communication by improvements to existing waterways, and to the feasibility of approach by the proposed railway. It was realized that the importance of the port and the Hudson bay route as a whole depended in no small degree on the efficiency of the rail communication inland.

In accordance with the above, surveys were made of the harbours at the mouths of both the Churchill and Nelson rivers, the results of which have been sent forward to you.

The results at Nelson seem to justify the recommendation that a further appropriation for an accurate survey of that port be made before it is rejected as a terminus for the Hudson Bay railway.

(Sgd.) JOHN ARMSTRONG,

Chief Engineer, Hudson Bay Ry. Surveys

#### THE ESTIMATE.

#### CLEARING.

The estimate is based on right of way 150 feet wide with the necessary allowances added for sidings and terminals. A few miles of heavy clearing will be encountered, but the average over the whole line will be comparatively light. The first 200 miles will be through spruce and jack pine with a small proportion of poplar and tamarack. The northern 100 miles of the Chnrchill route will have practically no clearing. The northern 200 miles of the Nelson route will be through spruce with a small proportion of jack pine and tamarack and will probably have from 12 to 15 acres per mile to clear. A large portion of the clearing on both routes could probably be done for \$25 or \$30 per acre, but owing to the heavier clearing encountered at intervals au average price of \$40 per acre has been decided upon. This should be ample to cover whatever close cutting is required as well.

#### GRUBBING.

This item is somewhat difficult to estimate without an actual location profile. One and a half acres per mile has been used for 400 miles of both lines, using the price \$100 per acre which seems to be the price bid by contractors almost universally. The work will class as light, a large portion of it being such as can be done with heavy grading or breaking ploughs.

#### GRADING.

This being the chief item in the estimate, considerable care has been taken with it. The quantities submitted are taken from the projected profiles, and the greater portion of these being very close to the preliminary lines, should be as accurate as is possible without cross sections. Engineers in the field were instructed to take out these quantities liberally, and the estimates submitted by them are probably at least 10 per cent in excess of what the profile actually shows.

In addition to this, 25 per cent has been added to all quantities by this office, to cover drainage, settlement, &c., so that the quantities here reported are approximately 35 per cent in excess of what the profile actually shows. This should provide for all possible contingencies, especially as one of the main causes of swelling of estimates, viz.: road and farm crossings is not met with here. In addition, 1,100,000 cubic yards are added to Churchill route and 900,000 cubic yards added to Nelson route for sidings and terminals. At the present time not one single road or farm crossing exists between The Pas and Hudson bay. The prices adopted, \$1.80 for solid rock, 65 cents for loose rock and 30 cents for earth, approximate closely to the prices obtained on the Transcontinental railway in what may be termed similar country, viz.; districts C. D. and E. The price, 30 cents for earth, is perhaps somewhat lower than Transcontinental Railway prices, but I am confident that the contractor who bids over 30 cents on this work will have no chance to get the contract. The portion from The Pas to Hudson Bay Junction of the Canadian Northern railway, a much worse proposition than any we have encountered, was done at a profit, for 25 cents during the high wage period of 1906 and 1907.

These prices quoted are of course the average. In making up the estimate the prices used on the northern portion were, for solid rock \$2, loose rock 75 cents and common excavation and borrow 50 cents. The summation of the quantities and cost on the different sections resulted in the above quoted averages of prices which have been used in this estimate. On sections 1 and 2 the engineers did not estimate any loose rock. For this reason the 25 per cent added to their common excavation has been classified as loose rock. The classification made has been based on the Transcontinental Railway specification. The accessibility of the work will not be so difficult as supposed. The first section has rail communication to The Pas with a fairly good steamboat connection already established to Moose lake, 50 miles along the route. The construction of wagon or sleigh roads from this point on will be easy. The second section, with communication from Winnipeg via Lake Winnipeg and the Nelson river, can be made quite adequate for the comparatively small sum of fifteen or twenty thousand dollars. In case the Churchill route is selected this will be more expensive. The third section may be supplied from Churchill or Nelson if so desired. In the case of Nelson good water connection being possible for 60 or 70 miles inland. In case the Churchhill route is selected probably steam shovels will be required on a section of about 35 miles near Split lake. These water routes suggested are not recommended for the transport of such plant as this, but will be useful for all lighter supplies and materials. On the Nelson route no steam shovel work is anticipated, except blasting—the plant for which will follow along behind the track.

#### TIMBER.

On the Churchill route a sufficient amount of timber for ties, piles, and temporary work may be had convenient to the line on the southern portion as far as the 240th mile, but beyond this point none can be had. For this reason piling has been quoted as 50 cents per foot on the Churchill route, as against 40 cents on the Nelson route, where timber may be had all the way to the bay. The quantities estimated for piling do not look very large, but it is to be remembered that all our stream crossings are very

low, thus cutting down the length of the piles and also reducing the length of bridging or number of bents required. With the exception of the Saskatchewan river crossing and the crossing of the Deer river on the Churchill route all waterways have been estimated for, as temporary wooden structures.

On the Nelson route the Saskatchewau crossing and the two crossings of the Nelson are to be steel and coucrete, all others wood. Our expedition is practically the first which has obtained definite and specific information of the country through which it is proposed to run, but inasmuch as practically all the work was done in the winter months with everything frozen solid and under three or four feet of snow it is perhaps too much to expect that a proper estimate of water openings could be made. For this reason temporary wooden structures of such a nature as will suffice for a period of from 7 to 10 years has been estimated for.

During this period close observation of the waterways will enable us to specify with more certainty the style and size of opening required. With this closer knowledge of what is required, and with the increased facilities for handling cement and other materials for permanent structures, the final cost will probably be less than if an

attempt were made to construct them now.

Ccdar timber for culverts may be had f.o.b. cars in Winnipeg for \$18 and \$20 per thousand, and with freight added is worth \$22 to \$25 at The Pas. The price of \$40 thus leaving from \$15 to \$18 for framing and contingencies, and it is probably high enough to cover the cost of what little excavation may be needed. If timber native to the country can be used, such as spruce and tamarack, a considerable saving may be effected. My own experience has been that such timber is quite good for seven years, and I know of some spruce culverts built twelve years ago and still good.

The timber for trusses and stringers being imported from British Columbia will

be more expensive, but will be approximately the same for both lines.

#### IRON.

An average of 5 cents per pound has been adopted, based on Winnipeg prices, plus freight to The Pas.

#### TRACK MATERIAL.

Steel rails of 60 pounds per yard are proposed. Much of the material of which the roadbed will be composed is of a peaty nature and some settlement may be expected.

Under such circumstances it is probable that a better track can be maintained with the 60 pound rail than with the 80 pound rail. Prices are based ou Fort William prices plus freight to The Pas, wheelage charges, &c., and an allowance of about \$3 per ton for contingencies.

#### TIES.

Estimated at 3,000 per mile for all tracks. Being obtainable at all points on the Nelson route 40 cents each has been adopted, but none being obtainable beyond Split lake on the Churchill route, 50 cents has been used for that estimate.

#### SWITCHES.

In the estimate for switches is included split switch points, spring frogs, switch stands, lamps, and an allowance of \$15 to cover the difference between common ties and switch ties at each switch.

#### TRACK LAYING.

The prices on the Transcontinental railway vary from \$400 per mile to \$600 for laying the 80 pound rail there used, so that \$500 per mile should be ample price for laying the lighter 60 pound rail proposed for this line.

#### BALLASTING.

Indications are that we will not find it necessary to exceed a maximum haul of 25 miles except in the northern 100 miles of the Churchill route, where a 50 mile haul may be encountered. However, as ballast may be found closer, \$1,000 has been estimated for both routes and includes side tracks and terminals as well as main tracks.

#### WATER TANKS.

This question has been fully looked into, and it is found, from the Great Northern Railway experience, that \$5,000 should build a tank of 50,000 gallons capacity, of the most approved pattern and as nearly frost proof as has yet been devised; including machinery and heating apparatus inside the tank. As water is very plentiful in our country the intake and piping will not be expensive.

In addition to the above items discussed here there is left for you to estimate upon, station houses and terminal structures; shops, docks and elevators.

In the estimate a side track of 5,000 feet was assumed every eight miles, with a station house, water tank, and accommodation for two section screws at every alternate one. This leaves each section crew the somewhat lengthy section of 8 miles and also situated at one end of the section. It has, however, the advantage of always having the section crew where the superintendent or road-master can always communicate quickly by telegraph or telephone.

Passenger traffic, express traffic and small package freight for a number of years at any rate cannot be very large, so that the accommodation in the station may be cut to a minimum. Out-going local freight will consist largely of timber which requires no shelter, and incoming local freight will be mostly for lumber camps, the most bulky articles of which, such as hay, oats, flour, pork, &c., if necessary can be better accommodated in a separate warehouse of much cheaper construction. Thus the accommodation of our stations will be principally limited to the requirements of the railway agent. A few years after the opening of the railway the principal centres of development will have become apparent, and more suitable station and freight sheds erected as required.

#### TERMINALS.

The Churchill route, 477 miles approximately, is too long for three engine divisions in this hard winter climate. The Nelson route, 410 miles, can probably be handled by three train divisions, as owing to the better grades the 135 mile Nelson division will not be a harder task for the engine than the 120 mile in Churchill division. On the Nelson route this will mean four sets of buildings, and on the Churchill route five sets.

#### CHURCHILL ROUTE.

#### NELSON ROUTE.

Qu	antity.	Amount.
ets.		s
00	7,000	280,000
00	600	60,000
40 7.	500,000	3,000,000
	200,000	80,000
00 2,	800,000	112,000
00 3,	200,000	176,000
05 2,	100,000	105,000
00	45,500	1,820,000
()	15,000	608,000
00 {	2,280	114,000
U	800	40,000
00	390	31,200
00	1,740	113,100
40 1,	450,000	580,000
00	240	60,000
00	483	241,500
00	25	125,000
00	410	123,000
	400,000	650,000
00	12,000	180,000
00	483	483,000
		8,333,800 648,000
		8,981,800
	1,647,600 4,000,000 320,000 1,476,940 7,444,540 5,065,000	\$61,426,340
	ouse	ouse -

#### FORT CHURCHILL.

#### THE CHART.

Two charts, or maps, are being furnished with this report. One on a scale of 4,000 feet to 1 inch for purposes of comparison with Port Nelson, and a large one on a scale of 1,000 feet to 1 inch, as a working map. On this larger map are shown also 10 feet contours and other notes in more detail than was possible on the smaller scale. The soundings are reduced to low water level.

#### GENERAL DESCRIPTION.

Fort Churchill is at the mouth of the Churchill river where the river passes through a large tidal flat or lagoon mostly dry at low tide except near the outlet to the sea. The lagoon is surrounded by hills consisting of rock at the sea outlet and of sand and gravel further up the river. The only available situation for docks at present is out near Cape Merry, with the railway terminals from two to three miles up stream, and the townsite from three to five miles up stream. Another townsite is available on the west side, but it would be somewhat difficult to get railway and dock sites.

There is no possibility of improving the Churchill river so as to give inland communication by water owing to its shallowness over its many wide and frequent rapids. The neighbourhood of Fort Churchill is practically destitute of all forest growth for miles in all directions, the vegetation being restricted to mosses and patches of coarse grasses along the edges of the water areas.

The main fresh water supply is obtained from the uumerous small lakes in the neighbourhood, and is of excellent quality. The tidal flats are thickly strewn with boulders, some so large as to be visible above high water.

#### TIDES AND CURRENTS.

The main current in the harbour is along the indicated channel of the Churchill river, being approximately down the centre of the lagoon, but striking more against the eastern side towards the harbour mouth. With the ebb tide the current attains a velocity of from six to eight miles per hour, creating a somewhat difficult entrance for low-powered ships. The local pilots prefer to bring in their ships with the incoming tides.

It is quite useless for anything but a steam vessel to attempt the eutrance at any other time. The current with the iucoming tide is much less, probably not exceeding 4 miles per hour. The highest tide observed was 13½ feet, and the lowest 8 feet, both probably being subject to modification with a longer series of observations. The water is always more or less salt near the entrance. At low tide fresh water may be obtained in the Churchill channel opposite the Hudson Bay Company's post, but when the tide is in this cannot be done.

#### ICE CONDITIONS.

The harbour usually freezes over about November 15. The open sea also freezes over during the winter four or five miles out from Churchill. The usual date for the opening of the harbour is about June 19. This last spring the harbour opened on June 7, or about 10 days earlier than usual. The ice lay off the coast and harbour this year, preventing the return of the survey party until July 13. when a start was made for York.

Five days more were lost by the ice pack off Cape Churchill extending about thirty miles out to sea, the boat crew declining to venture outside of this. The boat in use was only a small sailing coast boat not well adapted to ice work. Probably no serious difficulty would have been experienced by a steamer making Churchill within a few days of the opening up of the harbour on June 7. At intervals between June 7 and July 13, ice would be drifted back into the harbour by north winds. This ice floating up and down the harbour on the strong currents existing there constitutes a serious inconvenience and danger to ships at anchor and to docks and other works which may be constructed along the shore. The harbour has been reported on occasions to have been blocked by iee as late as August owing to long continued north winds. This liability of the harbour to being filled with loose heavy ice drifting up and down with the strong currents will need to be seriously considered in choosing the type of docks to be built here. As shown on the chart, the direction of the current tends to throw the drifting ice against the cast shore, the only available place for docks at the present time. The icc, however, does not jam here very much but is swept on out by the strong current. Jams more frequently occur on the west side between the police barracks and Cockrill's Point.

#### ANCHORAGE.

At the present time very little shelter can be had at low tide by any ship drawing over 18 or 20 feet of water. Space to accommodate two or three ships of this size might be had, but anything larger would have to anchor almost in front of the entrance, which, being about three-quarters of a mile, allows the full force of the seas to be felt. The seas enter the harbour with sufficient force to cause a heavy swell to be felt throughout the harbour; in fact it is reported that at times it is impossible for the smaller boats to cross the harbour for two or three days at a time. The bottom consisting of mud, affords a fairly good holding ground for anchors.

#### MATERIAL.

The material forming the harbour bottom is mud, thickly strewn with boulders of all sizes, and is probably a deposit from the Churchill river.

Excavating for ships berths close inshore to avoid the heavy drift ice will probably encounter solid rock, as the solid rock in several places runs to the water edge.

#### MATERIALS FOR CONSTRUCTION.

Stone for construction purposes is very plentiful. Marble if you like to use it. All timber will have to be brought in either by rail or by ship.

#### DEFENCE.

Fort Churchill being practically upon the open sea can only be defended by strong forts and batteries placed in the immediate neighbourhood of the port itself.

#### PORT NELSON.

#### THE CHART.

The chart or map accompanying this report has been drawn to a scale of 4,000 feet to 1 inch, as being best adapted for the purpose of giving a comprehensive view of the general situation at Port Nelson. Lines are shown on the chart inclosing the portion which was found open all last season; other lines showing the portion where the ice did not attain a greater thickness than 10 inches. The shore line is plotted in

from a traverse of the shores. Wherever the ice was of sufficient strength the sounding was done through holes, the method of locating being indicated on the chart. The soundings in the open water portion were taken from a boat hired from the Hudson Bay Company at York Factory, and were taken in May and June after the ice had gone out. This portion of the work was accomplished under great difficulties, as only five small buoys could be obtained to mark ten miles of river.

The boat, which was the best obtainable, was the usual coast boat of very shallow draft and clumsy rig, but endowed with special qualities in the matter of drifting.

Owing to this propensity and to the fact that the small buoys were not visible from one to the other, some difficulty was experienced in keeping the proper course. However, after ten days or two weeks hard work a sufficient amount of information was obtained to enable us to state with certainty that a good channel exists in which a ship drawing 26 feet might safely enter at all stages of the tide. Mr. R. D. Fry. the engineer in charge of the party, believes this chart to be a conservative representation of the actual conditions at Port Nelson, and that more extended surveys with the proper equipment will probably show a more favourable situation.

In order to get the best results it will be necessary to have a good strong boat equipped with power, preferably a good sea-going tug which could be fitted to burn either coal or wood, with a dozen large sized buoys and fifty or sixty smaller ones

to mark the channel and points to be sounded.

#### GENERAL DESCRIPTION.

Port Nelson is at the mouth of the Nelson river, while York Factory is situated at the mouth of the Hayes river, about fifteen or eighteen miles from Port Nelson.

The site at the mouth of the Hayes was chosen by the Hudson Bay Company on account of the better communication with a greater number of inland posts, and also being a much smaller stream was not so difficult to navigate.

A great deal of tracking had to be done on both rivers, and the Hayes being much smaller, offered less trouble in crossing and recrossing to take advantage of paths to tow from. The Nelson river is known locally as the North river, and Port Nelson is named by the British Admiralty as York Roads. Hudson bay vessels crossing to York Factory with supplies anchor about 15 or 20 miles from the post in York Roads. The site of York Factory was not chosen on account of its accessibility from the sea, but entirely on account of the easier communication with inland posts. The Nelson river proper may be said to eud at Flamboro Head, which is the approximate limit to which the tide reaches. The estuary is a wide tidal flat with the main channel running approximately down the centre, finally discharging into an open sea abreast of Beacon Point, some 25 miles from Flamboro Head. At Flamboro Head the banks rise shear from the water edge to a height of 100 to 125 feet. From this point they gradually diminish in height on both sides of the river, until at Sam's creek on the north, and Beacon Point on the south, they are about ten feet above the water. The north shore is of clay with a sufficient fall for drainage and covered with a fair growth of spruce.

A good site for terminals and town may be had in the vicinity of the point marked on the chart. Above this point the banks become higher and much more abrupt.

The south shore is also of clay with a good slope for drainage, but at the present time is covered with a very heavy growth of moss, rendering it very wet. An abundant supply of fresh water may be had either from the Nelson river itself or from various smaller streams and lakes in its vicinity.

#### TIDES AND CURRENTS.

The main current when the tide is ebbing is along the main channel, the current over the flats running approximately parallel to it. As the water lowers the currents

over the flats converge more and more upon the main current, till at low tide they are approximately at right angles to and approaching it. On the ebb tide, the current flows at the rate of about  $3\frac{1}{2}$  miles per hour, being strongest at the mouth abreast of Beacon Point. Under favourable conditions the current here might rise as high as 4 miles per hour. So great is the discharge of the Nelson river that a perceptible current may be noticed several miles out to sea. With the incoming tide a current of about  $2\frac{1}{2}$  miles is obtained.

During the observations, extending from March 20 to June 10, the lowest tide observed was 6.9 feet and the highest 10.9. A longer series of observations will probably establish greater extremes.

The Admiralty charts give ordinary spring tides as ranging from 10 to 14 feet. It is probable, however, that any rise greater than 12 feet may be classed as an occurrence out of the ordinary, and due probably to some particular combination of wind and tide. The tides were found to be very variable, due no doubt to the comparative shallowness of the water. This will require a long series of observations before accurate tide tables can be prepared. This condition is not peculiar to Port Nelson, but applies generally to the tides in Hudson bay.

Salt water is never found above Beacon point except when a very strong easterly gale is blowing with the incoming tide, when a slightly brackish taste may be detected two or three miles above Beacon Point. When the tide is ebbing fresh water is obtained far out to sea. Salt water is never obtained within many miles of the point selected for the terminals.

#### ICE CONDITIONS.

About the 20th December the river is usually frozen over at Seal Island or Flamboro Head. From this time on the ice gradually creeps down the estuary and out from the shore line until the first half of the month of April. About this date the weather moderated to such an extent that the thawing through the day counterbalanced the freezing at night and the ice began to recede towards Flamboro Head, the estuary being usually again clear of ice by May 15. The ice is broken up into large floes by the rising tide, and is borne off out to sea by the ebb tide. Owing to the appreciable current of the Nelson river being felt so far out to sea very little of this ice ever drifts back again. Between May 15 and June 1, the upper Nelson ice breaks up and passes down the centre of the estuary in the main channel, usually occupying from 24 to 36 hours on passing out to sea. During last winter no icc jams occurred inside of a line drawn from Beacon point to Sam's creek and a careful scrutiny of the shore line after the snow and ice had disappeared failed to find any trace of its ever doing so. The photos accompanying this report give a fair representation of the usual ice conditions at Nelson. Last winter was a shade colder than average.

The winter of 1878, an exceptionally mild winter, the channel remained open for 40 miles above Flamboro Head.

During the freeze up in the fall, a considerable quantity of slush ice comes down from the upper Nelson.

Last winter at Seal island and along the shore the ice attained a thickness of between 4½ and 5 fect. The average thickness at York Factory, where a record has been kept up for many years, sems to be about 4 feet 8 inches.

During the winter more or less icc floats up and down the open channel with the tides, but being very scattered no jams ever occur.

#### ANCHORAGE,

The anchorage being some nine or ten miles in from the mouth of the chaunel no serious sea is ever experienced which may cause trouble to anything larger than

canoes or row boats. The condition of the seas at Port Nelson will probably be found to resemble those experienced at Quebec on the St. Lawrence. The bottom is of sufficient stiffness to furnish a secure holding ground for anchors.

#### MATERIAL.

The material in the flats consists of blue clay with an occasional pocket of coarse sand and gravel with boulders scattered thinly around. In the channel the material is a very stiff blue clay, affording excellent holding gound for anchors. Probably all of the material can be handled by dredges at a very low cost and may be used for reclamation works around the docks. The bottom of the channel is swept clean and bare by the enrrent of the Nelson, and is of so stiff a nature that the small anchor used by the Survey, probably weighing about 200 lbs. would frequently drag for some distance before taking hold. The material on the flats is not so hard on top, but becomes harder as depth is obtained.

#### MATERIAL FOR CONSTRUCTION.

Stone for the construction of breakwaters and other works may be cheaply obtained. About 75,000 or 100,00 cubic yards may be picked up along the tidal flats in the shape of scattered boulders. Up the Nelson river, about 40 miles above Flamboro Head is a splendid quarry where any required quantity can be had, and landed cheaply at the works by means of the Nelson river.

Piles in large quantities will be obtainable from various streams entering Nelson

river and Hudson bay.

Cement and other material, being brought in by water, should be comparatively cheap.

#### DEFENCE.

The defeuce of Nelson from hostile fleets will be comparatively easy, the long comparatively narrow channel approach being easily rendered impregnable by means of sea mines, and rendered otherwise dangerons by the removal or changing of bnoys and other channel marks. Battleships which carry the extreme long range guns are of such a draft as to render it somewhat dangerons to mancenvre in less than 45 feet of water thus preventing their closer approach than 15 or 18 miles, a distance considerably greater than the effective range of even the heaviest gnns. The lighter ships which might approach closer carry correspondingly lighter guns. The establishment of strong batteries and forts at Sam's creek would seem to be all that is necessary to render Port Nelson absolutely unassailable.

It might be mentioned here in passing the greatly increased difficulty a hostile fleet would have on blockading the Atlantic coast of Canada were the Hudson bay route opened. The fact that ships may enter and leave Port Nelson all the year round is a fact worth remembering when the possibilities of war are considered.

WINNIPEG, September 8, 1909.

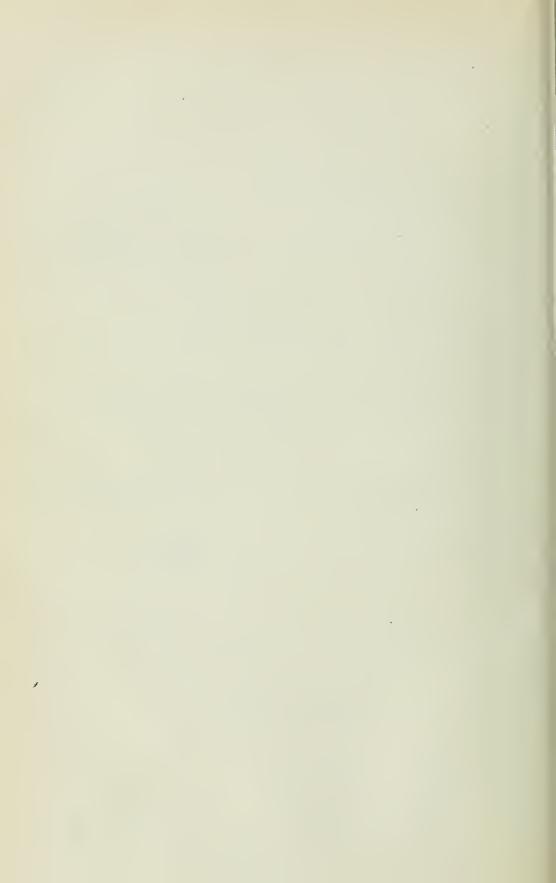
(Sgd.) JOHN ARMSTRONG,

Chief Engineer Hudson Bay Railway Surveys.

#### PART VI

## QUEBEC BRIDGE RECONSTRUCTION

REPORT OF CHAIRMAN OF BOARD OF ENGINEERS



#### DEPARTMENT OF RAILWAYS AND CANALS,

BOARD OF ENGINEERS, QUEBEC BRIDGE,

Montreal, Saturday, June 11, 1910.

Sir,—I beg to report progress of work on the reconstruction of the Quebec bridge for the year ending March 31, 1910, as follows:—

Borings.—An extensive series of borings was made during the summer of 1909 to determine the material in the vicinity of the north and south main piers, and the location of the bed rock. Some nineteen borings were made in all. The result of these borings established the fact that on the north side a new pier could be sunk outside of the present main pier and down to bed rock. On the south side the borings indicated that the foundations upon which the present south pier rested was sufficient to support the enlarged south pier and the loads to be superimposed thereon.

Tests.—It was arranged with Professor A. N. Talbot of the University of Illinois, to make a series of tests of nickel steel riveted joints. These tests were carried out with great accuracy, but the result did not show that there was any material advantage in using nickel steel rivets in preference to carbon steel rivets.

Masonry.—The contract for the construction of the piers and abutments of the new Quebec bridge was awarded in December, 1909, to the firm of M. P. & J. T. Davis, of Quebec. Work on this contract has proceeded steadily. Preparatory work of considerable magnitude has been performed at the site of the bridge on the north side of the river, such as building trestles, railway tracks, freight elevator, &c., which will be used for the handling of material and supplies. No work has yet been started on the south side. At Pointe a Pizeau the contractor is constructing the caisson for the new north main pier. This work is proceeding rapidly and the caisson will probably be ready for floating in place about July 1, 1910.

Removal of Debris.—The contract for the removal of the debris was awarded in December, 1909, to the firm of Charles Koenig & Company, of Quebec. The contractor is making fair progress in the removal of this wreckage and up to the end of March had removed some 1,890 tons, or 21 per cent of the entire work. It is expected to have the wreckage in the vicinity of the main pier removed by August 1, 1910, in order to allow the contractor for masonry to start work at this point.

Compression Tests.—A contract has been awarded to the Phænix Bridge Company of Phænixville, Pa., for the manufacture and testing of a series of model chords and posts such as will be used in the design of the board now being prepared. Models of eight separate members will be made in duplicate, making sixteen tests in all. The first of these model chords will be ready for testing about May 1, 1910.

Tension Tests.—A contract has been awarded to the Phœnix Bridge Company, of Phœnixville, Pa., for the manufacture and testing of fifty nickel steel full size eyebars, similar to those used in the design of the Quebee bridge now being prepared by the board. The Phœnix Bridge Company will be ready to start the testing of these members about June 1, 1910.

Plans.—The plans of the cantilever design being prepared by the board are progressing rapidly and will be entirely completed and ready for calling for tenders by June 1, 1910. The specifications are also under way and will be ready at that date.

Alternative Plans.—Advertisements were inserted in the newspapers in November, 1909, advising contractors that they would be permitted to submit plans of their own in addition to tendering on the plans prepared by the board. I believe it is the intention of several of the bridge companies to take advantage of the privilege granted by the department.

All of which is respectfully submitted.

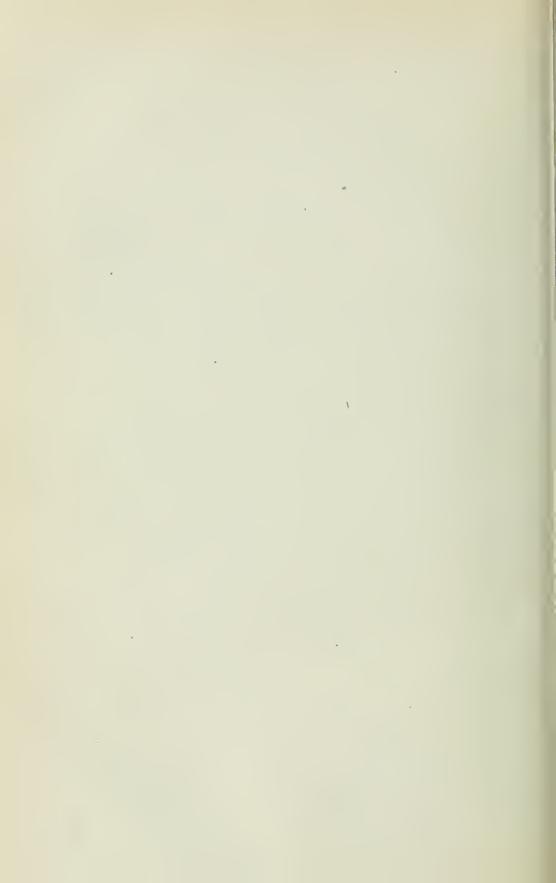
(Sgd.) H. E. VAUTELET,

Chairman and Chief Engineer.

#### PART VII

## REPORTS OF CANAL SUPERINTENDING ENGINEERS AND OTHERS FOR THE YEAR 1909-10

- 1. L. S. Pariseau, Acting Superintending Engineer, Quebec Canals.
- 2. W. A. Stewart, Superintendent, Ontario-St. Lawrence Canals.
- 3. C. D. Sargent, Resident Engineer, Ontario-St. Lawrence Canals.
- 4. L. N. Rheaume, Engineer-in-charge, Ontario-St. Lawrence Canals.
- 5. J. L. Weller, Superintending Engineer, Welland Canal.
- 6. J. W. LeB. Ross, Superintending Engineer, Sault Ste. Marie Canal.
- 7. F. B. Fripp, Engineer-in-charge, Sault Ste. Marie Canal.
- 8. A. T. Phillips, Superintending Engineer, Rideau Canal.
- 9. J. H. McClellan, Superintendent, Trent Canal.
- 10. A. J. Grant, Superintending Engineer, Trent Canal.
- 11. J. H. Devereaux, Lock Master, St. Peter's Canal.



Department of Railways and Canals,
Office of the Chief Engineer,
Ottawa, July 1, 1910.

A. W. CAMPBELL, Esq.,

Deputy Minister, Ottawa.

Sir,—I have the honour to transmit herewith the annual reports of the Superintending engineers and superintendents of the several canal works of the Dominion for the fiscal year ending March 31, 1910.

In view of the fact that my appointment as chief engineer of the department was made subsequently to that date, I have considered it best to dispense with commenting in the matter, leaving these reports to speak for themselves.

I have the honour to be, sir,

Your obedieut servant,

W. A. BOWDEN,

Chief Engineer.



# QUEBEC CANALS.

## SUPERINTENDING ENGINEER'S OFFICE,

Montreal, June 21, 1910.

W. A. BOWDEN, Esq.,

Chief Engineer, Railways and Canals.

Ottawa.

Sir.—I have the honour to submit herewith the annual report on the works under the charge of the superintending engineer of the Quebec canals, for the fiscal year ended March 31, 1910.

This division comprises the Lachine, the Soulanges and the Beauharnois canals on the St. Lawrence route; the Ste. Anne, the Carillon and Grenville canals on the Ottawa river, and the St. Ours and the Chambly canals on the Richelieu river.

Of these, the Lachine canal is by far the most important on account of its immediate connection with the harbour of Montreal.

I have much pleasure in stating that there was no interruption to navigation on the canals of this division and that the different staffs have performed their respective duties in a very satisfactory manner.

The repairs and renewals on these canals have been done, under the direction of the overseers and superintendents, whereas the works chargeable to capital and income, on the Lachine canal, have been executed under the immediate supervision of Mr. H. R. Lordly, C.E. Works of this kind on the Soulauges, Beauharnois, Ste. Anne, Carillon, Grenville, St. Ours and Chambly canals, have been supervised by the undersigned.

## CANAL STORES.

These stores have been well kept and the book-keeping inaugurated by Mr. P. B. Benoit, a few years ago, for keeping track of the materials and tools purchased for the use of the canals, is now better understood by the officials having charge of these stores.

The comptroller's report is to the effect that only a few errors have been made this year and that all materials and tools have been fairly well accounted for.

## SURVEYS.

The survey of the Soulanges canal has been continued from St. Dominique to St. Antoine bridge, a distance of six miles. This survey is made in order to get an accurate plan showing all the properties, ditches, roads, culverts, highways and farm bridges, &c., situated on each side of the canal and comprised in the strip of land between the Grand Trunk Railway track and the River St. Lawrence. Levels have also been taken for the purpose of getting the necessary data to deal with complaints of flooding said to have been caused by the construction of the canal.

Soundings have been taken in the Pointe des Cascades bay to find a better channel leading to the protection dock in which are kept the spare lock gates of the Soulanges canal.

#### DREDGING.

The dredging fleet of the Quebec canals came out of the dry dock, on May 4, 1909, and after one month's work cleaning the bottom of the Lachine canal at Cote St. Paul. Rockfield and at Black Bridge, it was taken to the Soulanges canal, to deepen and straighten the channel between the lower entrance of the canal and the gate protection dock.

About 8,000 yards of material were taken out of the channel and deposited on the shores of the Cascades bay, in order to protect them against the crosive action of the waves.

From Soulanges, the fleet went to Grenville and worked at cleaning around the locks during the whole month of July.

In August and September the dredge was kept busy at deepening and widening the lower and upper entrances of the St. Ours lock. It then came back to Montreal and continued cleaning the canal prism above lock No. 2 and the side basins off the north side of basin No. 2, until the end of the scason.

#### REPAIRS TO DREDGING FLEET.

Two of the vessels have met with serious mishaps during the year. Tug Frank Perew broke her propeller wheel while working at Grenville, and the steam derriek broke her boom and her A frame in an attempt to raise an old sunken barge out of the Lachine canal upper entrance. Nearly three thousand (\$3.000) dollars were expended in repairing the damages caused by these accidents.

During the winter the machinery of the steam derrick has been considerably improved and is now fitted to work a claim shell. The old wooden frame on which the machinery rested was replaced by a solid cast iron one and new friction clutches were installed at the place of the positive 'embrayages.'

In addition to the above, the other vessels of the dredging flect were overhauled and put in a fairly good condition to resume work during the present season.

## LACHINE CANAL.

Length, 8½ miles; total rise, 45 feet; 5 locks, 270 feet x 45 feet with 14 feet on sills; 5 old locks 200 feet x 45 feet with 9 feet of water on sills, still available to navigation.

The water was drawn off the canal for general repairs and improvements on April 1 and re-admitted on May 2, a day later than usual.

During this month, the bottom of the locks, weirs and reaches, was cleared of all refuses, stones dropped from scows, water soaked logs, &c., all sluices, gates, valves, protection racks, &c., were overhauled and made right for the navigable season and all stone masonry, as far as was possible, was pointed with cement.

Throughout the whole year the canal grounds, buildings and other structures, roads, sidewalks, fences, culverts, wharfs, booms, ditches and the little River St. Pierre, were kept in a fairly good state of cleanliness and repair, and the telephone and lighting systems were maintained in efficient working order.

The new electric system for operating the lock gates was completed on every lock, old and new, early in the season and has given full satisfaction.

A considerable amount of repair work was done all along the canal, and amongst the chief items are the following:—

## REPAIRS AND RENEWALS.

Locks.—Many broken and missing coping stones were replaced by concrete moulded in place and, in some cases, faced with heavy steel plates.

The portions of the side walls situated above the upper gate recesses at locks Nos. 3. 4 and 5 were raised about three feet with concrete faced with steel plates for additional safety of the large steel freighters entering these locks on their downward trips.

The old wooden anchor blocks for suspending the gates on old locks Nos. 3, 4 and 5, were replaced by heavy east iron ones set in concrete and permanently secured to the lock masonry by means of large anchor bolts.

In order to provide a suitable foundation for the machinery to operate the lock gate, concrete blocks were built behind the lock walls and opposite the four gate

lecesses of each of the ten locks. These blocks were made sufficiently large to reset the pulling strain exercised by the machinery and were set below the frost line.

Lock gates.—The platforms and mullions of the gates for the old and new locks, as far as possible, were renewed and the gates themselves scraped and repainted.

Spare gates.—Two pairs of lock gates were built during the year for old locks Nos. 3 and 5 and one pair for new lock No. 3. These were made so as to meet the requirements of the new electric machinery and those already on hand were altered to the same purpose.

Bridges.—The eight swing bridges over the eanal were kept in good order, some of them replanked with 2-inch oak and partly painted over. The top floors of the nine stationery bridges were renewed and the bridges painted over.

The bridge constructed last year with scrap channels and beams proceeding from the demolition of the old Wellingston street bridge, was put in place over the old supply weir at Lachine, by the canal repair men. This work necessitated the levelling of the piers of the old bridge, also the construction of concrete sidewalks on both sides and at each end of the bridge.

Wharfs.—The wharf opposite the Canada Sugar Refinery, on the south side of the canal, was substantially repaired and extended up stream 75 feet.

Mooring posts.—50 cast iron mooring posts and 100 nigger heads were permanently set in concrete at different points along the canal.

Slope walls.—The work of facing with concrete the slope walls of the eanal, in the long reach, above Cote St. Paul locks, was finished during the year and there remains only the revetment wall on the south side and some repairs to the vertical walls to complete the work in said reach.

The season's operations have stopped a serious leak through the canal bank at Cote St. Paul.

These works are being done under contract by Messrs, Haney, Quinlan & Robertson.

Widening and wharf accommodation at St. Henri and Cote St. Paul.—This work consisting of widening the canal below lock 4 for a distance of 3,300 feet on the north side, and 1,800 feet on the south side, was started by the contractors, the Canadian General Development Company, Limited, at the beginning of the year and pushed very vigorously. All the north wall is finished and only a small portion of the south wall remains to be done. However, it will take all of the coming season to finish the dredging and make the total area of the basin available for navigation.

#### INCOME

Rebuilding wall north side Basin No. 2.—This work, which also includes the reflooring with concrete and scoria blocks of the sheds on Colborne street, was satisfactorily completed by the contractors, Messrs. Quinlan & Robertson.

The wharfs in the immediate vicinity of these sheds were also permanently paved, the walls all rebuilt in concrete and the entire basin is now in first-class condition.

## SOULANGES CANAL.

Length, 14 miles; 5 locks, 270 x 45 feet, with 15 feet of water on sills, total rise 84 feet.

## REPAIRS AND RENEWALS.

Shops.—The earpenters' shop was provided with a piereing and mortising machine and the blacksmiths' shop with a large size champion forge, mechanical blower, electric motors, &c. The provision of tools for the machine shops was much added to.

Locks.—In order to prevent, as far as possible, the coping stones of the locks and wing walls from being chipped or broken by the heavy steel freighters coming into contact with them, the face of these stones was bevelled six inches and their top arris rounded to a three-inch radius. This work has proven very effective and since its completion, not a stone has been damaged, although collisions of freighters with lock walls have been as numerous as before.

Lock Gates.—The platforms of the lock gates have been renewed and the gates themselves scraped and repainted.

Bridges.—New floorings of tamarack planks, three inches in thickness were laid on the St. Dominique and Coteau Landing highway bridges and twelve of the farm bridges were recovered with pine planks.

Buildings.—The storing sheds, the clerk's lodging and the shops have been provided with spouts and gutters, in order to prevent their foundations from being deteriorated by rain water. The overseer's lodging and outbuildings have been roofed with galvanized iron and repainted. The collector's house at Coteau Landing was considerably repaired.

Fences and Sidewalks.—Besides keeping these structures in good repair a new fence was erected to divide off the grounds around the overseer's lodging from a public passage between the highway road and the foot bridge across the tail race of weir No. 3 and a concrete sidewalk, about two hundred feet in length, has been laid from the overseer's house to the above-mentioned foot bridge.

Ditches and roads.—The most important ditches were thoroughly cleaned and the road along the canal kept in a fairly good order.

Slopes.—The slopes of the canal which had been deteriorated by the wash of passing vessels, have been reformed and faced with flat quarry stones, the quantity of stones used for this purpose amounting to several hundred cubic yards. The top portion of the inner slope of the south bank, on at least 1,400 feet on each side of the electric power house, was reformed and sodded over.

Canal lands.—The canal banks were cleaned out of bad weeds twice during the summer and the lock grounds were kept clean throughout the season.

Electric transmission line.—The No. 4 wires have been replaced by larger ones, viz.:—No. 0.0 from the power station to about one mile further up the canal, with a view of getting better results in lighting the far end of the canal, and the change has proved very satisfactory.

The old three-wire cables laid across the canal at locks Nos. 1, 2 and 3 were taken up and replaced by single wire cables laid in galvanized iron pipes crossing at the foot of lock No. 2. These cables are now carrying the electric current across the canal at its original tension of 2,200 volts. The transformers on the south side of the canal have been placed in concrete boxes sunk into the ground near the gate and sluice motors.

Water supply.—A four-inch cast iron pipe was laid from the canal to the three electricians' lodgings, and the same size pipe laid during the previous year was extended across the canal at the head of lock No. 2 and to the overseer's house.

#### CAPITAL.

Buildings.—A small fireproof building (brick and concrete) was erected in the shop yard to house the electric transformers which had been formerly imprudently placed in the garret of the shop building.

Concrete lining of slopes.—The inner slope of the south embankment of the canal, for a total distance of 4,215 feet, was faced with a coat of concrete generally 18 inches in thickness. This work was performed under contract by Messrs. Haney, Miller. Quinlan and Robertson, by means of a plan specially designed for the purpose and

approved by the department. Though the portions of the bank where leakage was most considerable have been protected during the year by this concrete lining, the works will be continued this year until every leak from the canal has been stopped.

Side walls.—Towards the end of last summer, a leak through the north bank of the canal through locks Nos. 1 and 2, which had given considerable trouble for some years, became so very threatening that it was found expedient to build a strong concrete wall in front of this bank before navigation would open again. This work was entrusted to Messrs. Haney, Miller, Quinlan and Robertson, who had on the spot a large plant to do the work with. At the end of the fiscal year, the contractors had the excavation done, and nearly all the foundation in place and were in a fair way to complete the wall for the opening of navigation.

#### INCOME.

Mooring posts.—Ten new cast iron mooring posts inserted in a large mass of concrete were set up on the north side of the canal, where most needed, viz.: opposite the Montreal, Light, Heat and Power Company's intake channel and immediately above St. Dominique bridge. Many of the old posts have been taken up and reset in concrete blocks of much larger dimensions than were those originally used.

Gate lifting scow.—A steel scow with two large derricks on its deck, operated by worm gear winches and capable of lifting thirty tons each, has been received at the beginning of the season for the purpose of hanging the canal lock gates. The hull of this scow was built by Messrs. Beauchemin & Co., the derricks by the Phenix Bridge and Iron Works, Ltd., and the winches by the Hall Engineering Co., and the fitting up was completed by the canal men.

## BEAUHARNOIS CANAL.

The company having this canal under rental have kept it closed to navigation during most of the last season for the purpose of taking borings from the head of the canal to where their power house is to be constructed. The canal was kept practically in the same state as it was during the previous year.

#### INCOME.

Ste. Barbe and Hungry Bay Dykes.—The work of protecting these clay dykes against the invading waters of Lake St. Francis by building a chain of boulders some distance into the lake was continued during the winter. The protection of the Hungry bay dyke is now completed and will only have to be maintained in future, but the work of Ste. Barbe will have to be carried on a few years longer.

Macadam.—The macadamizing of the public road on top of Hungry bay dyke was commenced during the year and about 3,500 lineal feet of road were completed. The crushed stone for this work is purchased under contract from Mr. Alfred Cossette, but the trimming of the road, the placing of the crushed stone and the rolling of it was done by day labour under the supervision of an official of the department.

## STE. ANNE LOCK.

Length ½ mile, one lock 200 x 45 feet, 9 feet of water on sills, total rise 3 feet. Old lock still available to navigation 200 x 45 with 6 feet of water on sills.

## REPAIRS AND RENEWALS.

Besides the usual repairs to locks, buildings, fences, &c., the following were performed.

 $20 - 16\frac{1}{2}$ 

Guide Piers.—The top of the two eribwork piers on each side of Baker's channel and of the division pier above the locks were repaired and the mooring posts on the first named pier were renewed.

Lock Grounds.—Gravel was deposited in all the alleys and on the ground surrounding the locks and the grass was kept short and in nice clean condition throughout the season.

Slide.—A permanent slide for hauling lock gates was constructed and a pair of spare gates were hauled up.

#### INCOME.

Bridges.—The old wooden bridges over the slips in the wharf below the locks were replaced by others consisting of steel I beams covered with four-inch plank and resting on concrete abutments. A pipe railing was placed on the inner side of each bridge.

Mooring posts.—The wooden posts on each side of the new lock were replaced with large east iron posts with moulded head inserted in heavy concrete mass sunk in the ground below the frost line. There were eight of these posts put in position.

#### CARILLON AND GRENVILLE CANALS.

Carillon Canal.—Length 3 mile, 2 locks 200 x 45 feet, 9 feet of water on sills, total rise 16 feet.

Grenville Canal.—Length  $5\frac{3}{4}$  miles, 5 locks 200 x 45 feet, 9 feet of water on sills, total rise  $43\frac{3}{4}$  feet.

#### REPAIRS AND RENEWALS.

Among the works performed under this heading may be mentioned the following as the most important:—

Maintenance of the canal banks, towpaths and roads, fences, telephone line, &c. Cleaning ditches, by-washes, culverts, lock grounds, &c.

Painting lock and weir masonry with cement mortar.

Repairing lock gates, bridges, guide and boom piers, scows, &c.

Building new gates for locks Nos. 5 and 7, a wood shed and an ice-house for the use of the canal office.

Cutting new drain between locks Nos. 4 and 5.

#### INCOME.

Public road.—The macadamizing of the two miles of road along the old abandoned eanal at Carillon, part of which had been done during the previous year, was completed.

The stone crusher and the steam roller used on the above work were shipped respectively to the Soulanges canal and to Valleyfield.

Carillon dam.—An appropriation of \$15,000 had been voted for this year to complete the repairs to the gap in the Carillon dam, but this work could not be done on account of the water in the Ottawa river remaining much higher than usual. However, all the necessary timber for these repairs has been purchased and delivered on the spot. It is contemplated to resume work as soon as possible during the present fiscal year.

#### ST. OURS LOCK.

Length of canal, & mile; one lock, 200 x 45 feet, 7 feet of water on sills; total rise, 5 feet.

## REPAIRS AND RENEWALS.

All the various structures on the canal have been kept in very good repair during this year except the boom piers below the lock.

These piers have been only superficially repaired, it being understood that they will be replaced by permanent concrete structures within a year or two.

The chief items of work performed here are the following:

Guiding Booms.—All the booms that are stretched along the boom piers in both the upper and lower entrances of the lock, have been taken out of the water and thoroughly repaired.

Scows.—The large derrick seew was recaulked and painted and so were the smaller vessels.

Island.—The island was kept clean and it was further protected against scouring by placing on its shores about 240 cubic yards of field stones.

Painting.—All the buildings and fences were whitewashed. The grounds around the lock and buildings have been kept in perfect order during the whole year.

## CHAMBLY CANAL.

Length, 12 miles; 9 locks, 118 x 22½ feet, 6½ feet of water on sills; total rise, 74 feet.

#### REPAIRS AND RENEWALS.

The telephone and light services on the canal have been very satisfactory everywhere except in the harbour of St. Johns, where the lighting was supplied under contract by the St. Johns Electric Light Co. This company, however, has improved its power plant and better service is expected for the coming year.

The water at St. Johns was extremely low during the greatest part of the summer and on one day, was only 5 feet 11 inches higher than the sills of the guard lock. This unusually low water was attributed to the blasting of a large number of boulders on the crest of the natural dam immediately above the St. Johns rapids. The level of the water in the river above the canal will be watched closely this year, and should it shows signs to become as low as last year, a temporary clay and boulder dam will be built at some suitable point by the Public Works, pending the construction of the permanent dam at Vikerman's Point, below Ste. Therese island.

The eanal was kept clean and in good state of repair.

The chief items of work performed under this heading during the year 1909-10, were the following:—

Banks and Grounds.—The canal banks and the grounds around the locks and buildings were kept clean of bad weeds and refuse of all kinds, and wherever the slope walls had tumbled down, they were rebuilt. All the farm roads off the tow-path were put in good order and some levelling was done with material taken from the canal bottom near the Canadian Pacific Railway swing bridge, at St. Johns, P.Q.

Mooring Posts.—About thirty mooring posts have been renewed at different points along the canal.

Locks.—Besides the usual pointing with element, the gates were seraped and painted. A new pair of gates were put in place at lock No. 9. Two new guiding cribworks were built at the head of lock No. 2.

Drains and Weirs.—Some of the drains were deepened and all the others were cleaned. The weirs have been kept in good working order.

Bridges.—A number of bridges had their floorings renewed and nearly every one was given a coat of paint. The approaches to bridges No. 3 and 8, were macadamized and a concrete sidewalk crossing the tow-path was built at bridge No. 8. The end walls of the pipe culverts under the public road to St. Johns, were rebuilt.

Ditches.—Several new ditches were cut along and on the canal property, the total length being about three miles.

Buildings.—The oldest structures have been pulled down and replaced. All the others have been thoroughly repaired, cleaned, whitewashed or painted.

Fences.—About 1,700 lineal feet of new fence were erected along the Deneault drain and about 3½ miles of the existing fences reset and repaired.

Scows.—The dredge and scows belonging to the canal were repaired and given one coat of paint. The machinery of the dredge and derricks was overhauled and somewhat altered with the view of getting better results, and a new bucket was purchased for the dredge.

#### CAPITAL.

St. Johns Harbour.—The proposed improvements in the harbour of St. Johns consist in the removal of the Donaghy wharf, the extension of the present canal wharf up to the Central Vermout Railway bridge, the building of a new wharf parallel to the said bridge, on the up stream side, the erection of a breakwater and the laying of an inlet pipe line for the St. Johns aqueduct.

That portion of the improvements located above the bridge was completed during the fiscal year 1909-10 by Messrs. John G. Poupore & Co., to whom the contract for this work had been awarded on December 15, 1908.

All the works covered by this contract would likely have been completed by this time, had not the Grand Trunk Railway Co. objected to the department taking possession of their water lot, within which the greatest part of the improvements are located.

Power house.—The electric power house at Chambly, the foundations of which were laid during the previous year, was completed, but nothing yet has been done towards installing the electric machinery, there being no appropriation for this kind of work.

#### INCOME.

Bridges.—The ramps to the Jones bridge across the canal and tow-path at St. Johns, were totally renewed, this work involving the driving of many piles. Ten wooden bridges across the public road from Chambly to St. Johns were replaced with culvert pipes of large diameter. The length of these culverts in all cases is equal to the full width of the road.

Tow-path.—The macadamizing of the tow-path along the canal, which had been going on for a number of years, was completed during the fiscal year just ended, and the tow-path from one end to the other is in perfect order.

Booms.—The guide booms on the cast side of the upper entrance of the canal were totally renewed and covered with two-inch planks.

I have the honour to be, sir,

Your obcdient servant,

L. S. PARISEAU,

Acting Superintending Engineer Quebec Canals.

## LACHINE CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of new Lock No. 1 at lower entrance, and new Lock No. 5 at upper entrance, during the fiscal year ending March 31, 1910.

M. d	New Lo	ск №.	1, Lowe	New Lock No. 5, Upper Sill.				
Months.	Highest.		Lowest.		Highest.		Lowest	
1909.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
April	. 37	0	20	10	19	4	16	1
May.	25	ĭ	$\widetilde{20}$	6	21	i	19	
June	24	4	18	6	$\overline{21}$	4	17	$\frac{2}{6}$
July	18	4	17	0	17	4	16	8
August	17	10	16	1	17	2	16	8 2 8
September	16	5	15	7	16	2	15	8
October.	16	5	14	10	15	10	15	2
November	16	1	14	3	15	2	14	10
December	21	10	14	6	15	9	14	6
1910.				- !				
January	29	10	22	4	16	2	14	6
February		5	21	9	15	9	13	Ğ
March	34	0	22	5	17	0	14	4

## SOULANGES CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 1, at lower entrance, and Lock No. 5 at upper entrance, during the fiscal year ending March 31, 1910.

Months.	LOCK NO. 1, LOWER SILL.				LOCK NO. 5, UPPER SILL.			
	Highest.		Lowest.		Highest.		Lowest.	
1909.  April. May. June July August. September October. November December.	Ft.  21 23 22 19 18 17 17 17 18	In. 9 0 9 2 5 5 9 4 0 2 1	Ft.  19 20 19 18 17 17 16 16	In. 6 5 2 5 9 4 9 8 8	Ft.  17 17 17 17 17 17 16 16 16 16	In. 8 7 4 2 0 8 6 3 6	Ft.  16 17 17 17 16 16 16 16 15	1n, 6 0 0 -0 8 4 0 6 6 6
January. February. March	18 18 19	8 9 3	17 18 18	8 0 4	16 16 17	8 5 2	15 15 15	3 4 6

## BEAUHARNOIS CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 6, at lower entrance, and Lock No. 14 at upper entrance, during the fiscal year ending March 31, 1910.

N. d	Lock	No. 6,	Lower	SILL.	LOCK No. 14, UPPER SILL.			
Months.	Highest.		Lowest.		Highest.		Lowest.	
1909.	Ft.	In.	Ft.	In.	Ft.	In	Ft.	In.
April May, June July August. September October. November. December.	13 15 15 11 12 10 10 9	2 8 0 10 0 10 2 8 2	11 13 11 11 11 10 9 9	5 4 9 0 0 0 0 9 4 5	12 12 12 11 11 11 11 11 11 11	7 6 1 11 9 7 3 0 9	11 11 11 11 11 11 10 10	3 10 10 7 4 0 8 4 5
January February. March	15 20 13	0 0 0	10 12 11	2 10 6	11 10 11	11 11 10	10 9 10	4 9 5

## CHAMBLY CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 9, at lower entrance, and Lock No. 1 at upper entrance, during the fiscal year ending March 31, 1910.

	Lock	No. 9,	Lower	SILL.	LOCK NO. 1, UPPER SILL.			
Months.	Highest.		Lowest.		Highest.		Low	est.
1909.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
April. May. June July August September October November December	20 19 16 12 9 9 8 9 8	10 1 5 2 10 4 4 1 3	17 16 12 9 8 7 7 7	1 7 2 10 7 10 6 5 7	13 12 11 9 8 8 7 7	$\begin{array}{c} 0\\ 9\\ 10\\ 7\\ 6\\ 0\\ 9\\ 6\\ 5 \end{array}$	10 11 9 8 7 6 6 6 6	0 9 5 4 6 9 8 3
January	10 10 16	0 9 11	7 9 10	8 5 11	8 8 12	2 5 4	6 8 8	11 0 6

## ST. OURS LOCK.

STATEMENT showing the depth of the River Water on the Mitre Sills of St. Ours Lock during the fiscal year ending March 31, 1910.

Months,	Lock	No. 1,	Lower	SILL.	LOCK NO. 1, UPPER SILL.			
Atonous.	Highest.		Lowest.		Highest.		Lowest.	
1902.	Ft.	Iu.	Ft.	In.	Ft.	Ţn.	Ft.	In.
April May	21 19	$\frac{0}{7}$	16 16	3	17 15	0 6	12 13	5 3 5
June. July	17 11	$\frac{7}{4}$	11 8	5 11	13 10	$\frac{6}{4}$	10 8	11
August September	9	11 5 7	8 8 7 6	$\frac{1}{7}$	8 8	$\frac{11}{7}$	8 7	$\frac{1}{10}$
October November	9 8	7 8	6	11 6	8 8 8	$\frac{1}{6}$	7 7	7 6 8
December	10	9	Ğ	9	7	11	7	8
1910.								
January February	11 10 17	0 3 1	8 8 9	7 3 8	8 8 13	10 9 4	7 8 9	6 3 0

## STE, ANNE'S LOCK.

STATEMENT showing the depth of the River Water on the Mitre Sills of Ste. Anne's Lock at lower and upper entrances, during the fiscal year ending March 31, 1910.

N	Lock	No. 1,	Lower S	SILL.	LOCK NO. 1, UPPER SILL.			
March.	Highest.		Lowest.		Highest.		Low	est.
. 1909.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
April May June July August September	15 16 16 12 12 12	1 6 1 6 4 1	11 14 12 11 11 10	$\begin{array}{c} 7 \\ 0 \\ 7 \\ 9 \\ 1 \\ 7 \end{array}$	16 20 19 13 12	4 0 8 11 3 10	11 16 14 12 11	9 0 0 3 1 7
October November December.	10 10 11	8 4 2	10 9 10	$\begin{array}{c}2\\11\\4\end{array}$	11 11 12	9 11 0	11 11 11	3 3 5
January February March	11 10 12	7 9 5	10 9 9	2 7 6	11 11 13	5 2 4	11 10 10	0 7 6

## CARILLON CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 1, at lower entrance, and Lock No. 2. at upper entrance, during the fiscal year ending March 31, 1910.

March	Lock	No. 1, 1	Lower 8	SILL.	LOCK NO. 2, UPPER SILL.			
Months.	Highest.		Lowest.		Highest.		Lowest.	
1909, Aprii	Ft.  18 22 22	In.   5   6   5	Ft.  12 17 15	In. 11 8 7	Ft. 18 22 22 22	In. 6 8 4	Ft.  12 17 15	In. 4 0 7 6
July August September October November December	15 15 13 13 12 12	3 3 1 11 4	13 12 12 12 12 12 12	6 11 10 4 3 7	15 15 12 12 12 12 13	5 3 10 9 8 10	13 12 12 12 12 12	6 7 4 0 0 5
1910.								
January February March	13 12 15	11 11 3	12 12 12	6 8 7	15 13 14	6 6 5	12 11 12	$\begin{array}{c} 6 \\ 10 \\ 0 \end{array}$

## GRENVILLE CANAL.

STATEMENT showing the depth of the River Water on the Mitre Sills of Lock No. 3, at lower entrance, and Lock No. 7, at upper entrance, during the fiscal year ending March 31, 1910.

	Locks	No. 3,	Lower	SILL.	LOCK No. 7, UPPER SILL.			
Months.	Highest.		Lowest.		Highest.		Lowest.	
1909,	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
April May June July August September October November December	22 28 27 19 18 15 15 15	7 6 11 1 7 6 5 6 · 4	15 22 19 16 15 15 14 14 14	4 2 3 4 4 2 8 7	19 24 23 16 16 12 12 12 12	3 11 10 8 0 10 9 10	12 18 16 13 12 12 12 12 12	0 9 6 8 6 4 0 0 4
January February March	18 16 17	5 4 5	15 14 14	2 6 2	12 12 15	4 0 3	11 10 10	4 3 5

## ST. LAWRENCE CANALS.

OFFICE OF THE SUPERINTENDENT.

CORNWALL, Ont., March 30, 1910.

Sir,—I beg to forward herewith the annual report on the maintenance and operation of the Ontario-St. Lawrence canals for the fiscal year ending March 31, 1910.

The district stretches from Cornwall, at the foot of the Long Sault rapids on the St. Lawrence river, to Presque Isle bay on Lake Ontario, and embraces the Cornwall canal, overcoming the Long Sault rapids; the Farran Point canal, overcoming the Farran Point rapids; the Rapide Plat canal, overcoming the Rapide Plat, and the Galop canal, overcoming the Galop rapids and the Murray canal joining the Bay of Quinté and Presqu'Isle bay. The united length of canal is 28 miles, overcoming a rise of 78 feet in the river.

## THE CORNWALL CANAL

was opened for navigation May 3 and closed December 6, 1909, and was operated during the season without serious interruption or accident.

During the period the canal was unwatered in the spring, all repairs to structures below water were completed. In this time 50 feet of concrete wash wall was put in the south bank at each end of locks Nos. 19 and 20, at the lower ends of locks Nos. 18, 21, and Mille Roches bridge, and in both banks at the upper end of Cornwall bridge wing walls. The wash wall consists of a backing of small stone of about a foot in depth on the slope of the bank, faced with a foot thick of concrete and extending about a foot vertically below normal water level and about three feet above; two concrete culverts across the new bank on the north side between locks No. 18 and No. 19. All the weir valves at locks No. 18, No. 19 and No. 20 were taken out and repaired and refitted; all the fallen rip-rap was replaced.

The earth bank on the north side between locks No. 18 and No. 19 was built up to the grade, and will be completed during the next year with a concrete wash wall.

The rebuilding of the old timber entrance pier and wharf on the north side of the lower entrance to the canal, with a concrete superstructure, was completed, and came through the winter ice-shove in good condition.

All the spare gates for locks Nos. 15 and No. 17 were provided with a pin suspension gear instead of a screw; the valves all refitted and then the spare gates stepped, replacing the ones in use, which were similarly refitted and stored for spares. The same work was done on one pair for lock No. 19, making in all eight pairs of gates overhauled.

A new floor was laid over the weir bridges at locks Nos. 17 and No. 19.

Fender posts to keep side-wheel steamers off the lock copings were erected at locks Nos. 15, No. 17 and No. 18, and made ready for lock No. 19, to be erected during the coming year.

The Cornwall and Mille Roches bridges were painted.

A considerable quantity of stone was procured from neighbouring farmers during the early winter.

Two new fire-box side plates were put in the boiler of the Alert.

During the last months of the season extra men were temporarily employed on the operation of several of the locks. Their services did not prove of sufficient value to warrant their being employed permanently.

Thomas Carr, lockman at lock No. 17, was superannuated.

## THE WILLIAMSBURG CANALS

were opened May 1 and closed December 8, 1909, and were operated during the season without serious interruption or accident.

The rip-rap was repaired at different points along the line as required. Two hundred (200) cords of field stone were placed as a toe along the outer bank below the lift lock, Galop canal.

The Iroquois and the Cardinal bridges were painted. This completed the painting of all the bridges in the district.

All the lock gates, watch houses, &c., were painted. .

Owing to the rebuilding of the piers at the head of the Galop canal it was necessary to find other storage space for spare gates, and they were taken away and stored near the lock for which each pair was intended.

All the ditches were cleaued out.

Extensive repairs were made to the north lower entrance pier, Farran Point, and the lower entrance pier at Morrisburg was refloored.

Ten iron snubbing posts set in a block of concrete were placed along the approach walls at lock No. 23 and 35, iron snubbing posts were placed between locks No. 27 and No. 28.

The work on Bridge street, Cardinal, was completed; and it is now in condition to be turned over to the municipality.

The work of rebuilding the spare gates for lock No. 24 is well under way, and will be completed early next year.

A large stock of field stone was procured for further protection to the outer bank of the Galop canal.

It has become evident that a considerable amount of cleaning up of the bottom of the Rapide Plat is necessary. An appropriation will be asked for the coming year.

The question of operating and lighting the Williamsburg canals by electric power is being gone into, and it is hoped that a scheme will be ready for next year.

#### THE MURRAY CANAL

was opened for navigation on April 12, and closed December 7, 1909, and was operated throughout the season without interruption or accident.

All the bridges, houses, &c., were painted and maintained in good condition.

A new floor was put on the Smithfield bridge, and one new king post put in the Trenton road bridge.

The ditches were kept open and the banks came through the winter in excellent condition.

At the east end the banks were trimmed and re-levelled, and a stretch of 1,000

feet of rip-rap relaid.

The traffic on this canal has increased largely in late years, and further increase is promised. Many large freighters are using this route, but are forced to load light as the canal was built to give only 11-foot navigation. If this traffic is to continue, the question of widening and deepening the canal must be considered.

Appended are statements of water levels and fines and damages.

I am. sir.

Your obedient servant,

W. A. STEWART,

A. W. Campbell, Esq., C.E.,

Deputy Minister,

Department of Railways and Canals, Ottawa, Ont.

Superintendent.

STATEMENT of Fines and Damages, in connection with Ontario-St. Lawrence Canals, during Season of 1909.

# CORNWALL CANAL.

Remurks.	Paid.		Paid.		Not paid.
Name of Owner.	Ed. Jesmer. Collingwood Shipping Co.  A. Fredrickson Inland Nav. Co. G. L. & St. L. Trans. Co. James Pendergast. H. W. Richardson C. L. & O. Nav. Co. G. L. & C. Nav. Co. J. L. Croswaite Redford Steamship Line.	ALS.	J. L. Croswaite Paid		Hepburn Bros.
Fine.	\$6 cts. \$6 cts. \$70 00 00 00 00 00 00 00 00 00 00 00 00 0	WILLIAMSBURG CANALS.		MURRAY CANAL.	
Damage.	\$ cts. 2 18 14 92 50 00 14 92 13 78 13 78 100 00 15 96	TLLIAMSF	100 00 25 00	MURRA	23 25
Name of Vessels.	Mary Ellen ' Wasaga' Wasaga' Wa Gleeson' Odland' A. Runions' G. Manson' Dundee' J. Dawson' F. Bourgon' F. Bourgon' J. H. Plummer' J. H. Plummer' J. Creror' Waccamaw' Newona'	M	'Ben Harrison'		'L. S. Porter'
Date.	May 4. June 25 July 27 July 27 Aug. 9. R. 31 10 16 Sept. 16 17 Cot. 11 Nov. 23		June 26		23
Lock.	5858885558855		25.55		Ry. Bge. Oct.

RECORD of Highest and Lowest Levels of Water on the Ontario-St. Lawrence Canals for Year ending March 31, 1910.

RAY	TAE.	Low.	Ft.	######################################	12.0 12.1 12.6
MURRAY	CAN	High.	Ft.	22 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	12.7 12.6 13.3
ZOUK.	35	Low.	ľt.	110 111 111 111 111 111 111 111 111 111	13:2 14:3
LIFT LOCK	yeor	High.	F.	17.6 118.7 17.7 17.3 17.3 17.3 17.3	15.9 15.3 17.2
	12.	Low.	Ft.	155 165 176 176 176 176 176 176 176 176 176 176	14.4 13.8 14.4
CANA).	Lock	High. Low, High. Low, High.	F.	16.8 17.7 17.7 17.7 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	15.4 15.1 16.3
GALOF CANAD.	125.	Low.	1. 1.	19.5 20.7 20.7 20.7 20.7 19.0 17.0 17.0 17.0	16.2 17.2
	Lock	High, Low. High, Low, High	Ft.	21.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	19.0 18.5 20.2
VA)	24.	Low.	<u>ب</u> ب	16.2 17.9 17.9 17.9 18.9 18.9 18.9	13 6 13.7 14.5
Rapide Plat Ganal.	Lock	High.	F.	8118881 0 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15.5 16.5 16.8
IDE P.	Lock 23,	Low.	F,	17.0 18.6 18.6 17.5 16.6 15.7	14.4 14.1 15.3
RAP	Loc	High.	FF	18.7 19.1 19.1 18.0 17.7 18.0 18.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	16.9 16.3 17.5
ANAL.	Per		E.	0.81 0.82 0.64 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63	16.7 15.6 16.4
DINF C	Upper Lock 22.	High.	Ft.	119 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	18.4 17.1 18.5
FARRAN'S POINT CANAL	ver : 22.	Low.	H.	16673 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16.0 15.3 16.0
Еави	Lock 22.	High, Low. High, Low.	Ft.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	17.8 16.6 18.0
AL.		High. Low.	Ft.	6.65 6.65 6.65 6.65 6.65 6.65 6.65 6.65	14.5 13.8 14.0
ORNWALL CANAL.	Lock 21.	High.	}^t.	17.3 17.3 17.3 17.0 16.5 16.5 16.0 16.0	15.8 15.0 16.0
HNWAI	, 15.	Low.	<b>1</b> 4	15.9 16.1 16.1 15.9 15.9 14.7 14.6	16.5 21.7 15.5
č	Luck	High.	₩t.	17.3 16.9 16.9 16.0 16.0 15.7 16.0 16.0	27.0 25.3 23.0
-	Month.		1909.	April May. June July August. September. October. November.	January February March

## RESIDENT ENGINEER'S OFFICE,

CORNWALL, April 1, 1910.

SIR,—I have the honour to submit my annual report on the works under my direction for the fiscal year ending March 31, 1910.

#### CORNWALL CANAL.

Improving Upper Entrance to Lock No. 17.—Plans and specifications have been prepared and tenders are now being invited for this work.

The work contemplated comprises the construction of a cribwork and concrete approach wall on the north side of the upper entrance to this lock, the widening by dredging of the bottom of canal in the vicinity and the construction of a small waste weir to supplement the present waste weir to the river at this point, the capacity of which is insufficient to control the water in this level when the mills at the foot of the canal are closed.

The work as designed will materially assist vessels of the larger elass entering this lock, the approach to which at present is extremely difficult.

Repairing Washout in South Canal Bank above Lock No. 18.—A contract was entered into with Mr. Thomas A. Nicholson, of St. Catharines, for this work, which was commenced in August, 1908, and carried on without interruption during the remainder of the season.

The canal was unwatered on March 29, 1909, when work was resumed, and during the month of April the concrete wall previously constructed across the washout was extended eastward to connect with the masonry retaining wall at the head of Lock No. 18, the temporary timber dam which had been constructed in the canal around the washout was removed, and the whole bottom of canal in the neighbourhood of the washout cleaned out and made ready for navigation.

This work was diligently prosecuted day and night under the most unfavourable

weather conditions and the canal was opened for navigation on May 3.

The work of filling behind concrete wall, trimming, sodding and protecting the river side of new can bank across washout was immediately proceeded with and the whole of the works embraced in this contract were satisfactorily completed on October 9, 1909. The final estimate for this work has been paid.

A portion of the south canal bank immediately west of the washout showed signs of weakness, so it was deemed expedient to extend the concrete wall westward for a distance of 465 feet, and accordingly plans and specifications were prepared, and tenders invited for this work. The contract was awarded to Mr. Gordon R. Phillips. of Cornwall.

During the winter months the contractor placed some materials on the ground. erected his plant and made all possible preparations for starting the work as soon as the eanal was unwatered. The water was drawn off the eanal on March 30, and on the following day the contractor commenced operations. This work will be pushed forward as rapidly as possible during the month of April to insure against any delay to the opening of navigation on May 1.

The work of trimming the high north slope above lock No. 21, under contract with Messrs. J. J. & V. S. Fallon, of Cornwall, and which was commenced during the season of 1908, was finally completed in a satisfactory manner on November 17, 1909.

The final estimate for this work has been paid.

# WILLIAMSBURG CANALS.

A contract was entered into on August 6, 1909, with Messrs, McCoy & Wilford, Ltd., for the removal of the tops of the old wooden piers and bridges across the head and tail race to the weir at lock No. 27, which were badly decayed, and the rebuilding of same in concrete and steel.

The work was commenced and carried on without interruption till the close of the season.

This work will be resumed this month, and I expect will be completed this season.

## MURRAY CANAL.

Several complaints have been received during the past two seasons from the owners of vessels navigating this canal regarding the present depth of water available for navigation. I had some soundings taken near the eastern entrance to the canal, which show that the full depth as originally constructed does not at present exist at certain points.

This canal as originally constructed provided for a depth of only 11 feet at low water stage in Lake Ontario.

Owing to the very large increase in traffic through this canal in the last two years and the large class of boats now navigating it, it will be necessary. I think, in the near future to have this canal placed on the same basis as the rest of the canals on the system and provide for 14-foot navigation at low water, and I purpose asking for a small appropriation to enable me to have surveys and estimates of cost made next season with this end in view.

I have the honour to be, sir,

Your obedient servant,

C. D. SARGENT,

Resident Engineer.

W. A. Bowden, Esq., C.E.,

Chief Engineer, Dept. of Railways and Canals, Ottawa, Ont.

## GALOP CANAL.

SUPERINTENDING ENGINEER'S OFFICE,

Ottawa, April 7, 1910.

SIR,—I have the honour to submit my annual report upon works of construction and survey in connection with the enlargement of the Ontario-St. Lawrence canals for the fiscal year ending March 31, 1910.

## GALOP CANAL.

#### UPPER ENTRANCE.

This contract was awarded to Messrs. Murray & Cleveland in November, 1888, and was entirely completed on October 23, 1907.

The final estimate was completed and sent to the department on July 31, 1909. A number of claims have already been submitted to the department and have not as yet been adjusted or disposed of.

REMOVAL OF SHOALS IN RIVER, WEST OF UPPER ENTRANCE OF GALOP CANAL.

This contract was awarded to Mr. M. A. Cleveland on July 25, 1907, and was entirely completed on September 15, 1909, thereby affording an interrupted channel of seventeen feet deep of navigable water between the upper entrance of the Galop canal and the lower entrance of the North channel. The final estimate for this work was completed and sent to the department on January 3 last.

## NORTH CHANNEL AND 'GUT DAM.'

The contract for these works was awarded to Mr. M. A. Cleveland, and commenced on May 14, 1897, and completed on October 1, 1908.

A final estimate of the work was prepared in the Cornwall district office, completed and sent to the department on November 6, 1908.

A number of claims arising out of some material changes made in the original contract for this work still remain to be presented to the department for adjustment.

#### GALOP RAPID IMPROVEMENT.

This work under contract with the Gilbert Bros. Engineering Company, Limited, since September 25, 1897, was stopped in September, 1906, the government having decided that no more money would be granted for the work.

Detail plans, cross-sections, diagrams and calculations for the final estimate of this work were completed in December, 1909. A number of disputed claims still remain to be adjusted before the Exchequer Court. In connection with these claims, detail cross-sections and calculations of quantities have also been prepared in the Cornwall office with a view of affording all necessary information bearing upon the claims.

All works in connection with the enlargement of canals in this district and final estimates having been completed, this office was closed on March 31 last.

## IMPROVEMENT OF RIVER STRETCHES BETWEEN CANALS.

I beg leave to draw your attention to the fact that, before the entire completion of this part of the canal system, it was contemplated to afford a more direct navigable route by straightening the river channel stretches between canals. In my report for year ending June 30, 1904, I suggested several improvements in this direction.

The chief engineer reported as follows, viz.: 'As the hydrographic survey service has been transferred from this department to the Marine and Fisheries Department this work, it appears to me, will devolve upon them.'

Since then I must say that the traffic upon the upper St. Lawrence river has increased materially and is assuming greater proportions every year.

A great number of large iron vessels were placed on this route. The many inconveniences and delays encountered in having to cross the river from one side to the other in order to follow the marked channel, have become a source of great drawback to navigation.

It is not a hidden fact that owing to these inconveniences many large crafts have been withdrawn from this route.

Besides, the entrances to several of the canals require to be materially improved. With a view of overcoming these difficulties I will mention some of the improvements of immediate importance and their requirements. I beg to refer you to the following, viz.:—

1. The eddy at the entrance of the Farran's Point canal lock No. 22 is subject to frequent difficulties to large vessels, and has already proved disastrous to some. The cause of the eddy is due to the fact that on the north side of Croils island, which

belongs to the United States, there are two rocky points projecting into the river against which the current dashes, and the result is that at the foot of the canal water whirls around into the bay immediately below the lock.

The United States not being directly interested in improving the river channel at this point, the only alternative being left to overcome the effects of this eddy would be to cut off a part of Baker's Point immediately below the above mentioned bay, and dredge out a straighter course from the entrance of the lock east, thereby affording a free and uninterrupted flow of the river on the north side of the river.

2. Further up the river is Weaver's Point, situated about two miles west of the village of Aultsville, and which is an objectionable feature to the channel. East and west of it, there is deep water.

To straighten the channel this point could be materially reduced.

3. A mile further up is Prunner's shoal which would require to be dredged out and possibly a small portion of Cook's Point immediately below, in order to form a

better alignment.

4. About two miles below Morrisburg, 'Jackass shoal,' which lies in the middle of the river, requires to be removed. This shoal is triangular shape, and although carefully marked, long tows of barges have been known to break np during heavy storms and foggy weather, some of the barges becoming total wrecks.

5. The next objectionable feature that presents itself is at the lower entrance of the Rapide Plat canal, at Morrisburg. The channel at this point could be materially improved by cutting down Rose's Point situated a mile below Morrisburg.

6. At Pine Tree Point, opposite which is the narrowest part of the St. Lawrence,

about two miles cast of the village of Iroquois.

For some distance below this point the vessels follow the American or south side of the river and have to cross over, opposite Iroquois, in order to get into the entrance to lock No. 25.

Complaints have frequently been made by vesselmen on account of having to follow such a long wandering course instead of a more direct one.

To overcome this, a cut through Pine Tree Point would require to be made, and from thence a continuous series of small shoals would have to be dredged out in order to reach the lock in a more direct course.

7. The last and probably the most objectionable features of the river channel, is at a place about two miles west of Iroquois, where the river takes a sharp turn south of Toussant's Island.

During the navigation season, it has happened frequently that boats get into trouble in making this sharp turn, coming down stream, by running aground on the shoals of Tonssant's Island. It is also a fact that owing to this danger, navigation companies have withdrawn their vessels from the St. Lawrence route. This inconvenience would be released by cutting a new channel between the north side of Toussant's Island and Presqu'Isle of the mainland.

I trust that these observations will meet with favourable consideration, that surveys of these places may soon be ordered to be made, and that the department may shortly realize the necessity of undertaking some of the most important suggested improvements.

I have the honour to be, sir,

Your obedient servant,

L. N. RHEAUME,

Engineer in charge Ontario-St. Lawrence Canals.

W. A. Bowden, Esq., C.E., Chief Engineer, Department of Railways and Canals,

Ottawa, Ont.

St. Catharines, Ont., March 31, 1910.

SIR,—I have the honour to report upon the maintenance and operation of the Welland canal and its branches for the fiscal year ending March 31, 1910.

## NAVIGATION SEASON.

The canal opened for navigation on April 15 and closed December 20, 1909.

#### ACCIDENTS.

One serious accident occurred during the year, the Steamer Gargantua, bound up on May 16, 1909, carried away three gates in lock No. 21. Repairs were carried out quickly, spare gates being stepped and navigation resumed in twenty hours.

#### IMPROVEMENTS-NEW CANAL.

Mr. Joseph Battle has completed his contract to build dock south of the town of Welland, and the dock is now being used occasionally.

Mr. W. E. Phin has not quite completed his contract for widening the canal about a mile north of Welland. He is now trimming the slopes, and the whole work will be completed in a couple of months.

#### PORT COLBORNE.

Messrs. Hogan and Macdonnell have made slow progress with clearing up the excavation of the outer harbour. A good channel, 22 feet in depth, at a time when there is 14 feet of water on the sill of the lock is available to the elevator, and the contractors are now making an effort to have the whole harbour cleared and the contract completed by October 1.

The government elevator did a small amount of business last fall, and it is expected will do a fair business the coming year. The Grand Trunk Railway Company have decided to use it for lightering grain to Port Dalhousie instead of their own old elevator. The railway spur connecting the Grand Trunk with the elevator was completed in 1909 by the department.

## REPAIRS-NEW CANAL.

Ordinary repairs to structures on the new canal were carried out during the year. Mr. David Walker completed his contract for placing rip-rap on certain portions of the summit level where the old stone had been washed away by high water and the action of waves caused by passing vessels.

A dangerous leak broke through the bank at lock No. 19 weir on July 11, necessitating the drawing of the level, delaying navigation two days, during which time the leak was temporarily stopped, and while the water was out of the canal in March, 1910, an old dry wall at the head of the weir through which the water passed was torn down and rebuilt in concrete.

## REPAIRS-OLD CANAL.

The water was not drawn from the old canal this spring, the foundations of the locks and weirs being considered in safe condition.

A new steel bridge, with concrete floor, was placed over the raceway at lock No. 2.

 $20 - 17\frac{1}{2}$ 

#### WELLAND CANAL FEEDER.

The lock at the junction was unwatered in the spring of 1909, the foundation

repaired and new gates placed in position.

The swing bridge across the feeder at Bolton road was entirely rebuilt on a pile and concrete foundation. A new wooden superstructure was built, the bolts and castings from the old bridge at Port Robinson lock being utilized.

#### PORT MAITLAND.

Mr. M. J. Hogan satisfactorily completed his contract for renewing superstructure of west pier at Port Maitland with concrete.

#### PORT ROBINSON.

The swing bridge across the head of the lock was replaced by the old bridge which formerly crossed the new canal a short distance north of the village, it being cut down to suit its new requirements.

## WELLAND SHIP CANAL.

During the past year a large number of borings were taken along the route of the proposed Welland ship canal mentioned in my last report. This work will be continued during the coming year before a definite line is decided upon.

#### GENERAL.

The water in Lakes Erie and Ontario was kept well above normal during the whole of the year.

Mr. John E. Scott, overseer of the feeder division, was superannuated on May 1, 1909.

The following superannuated employees died during the year:-

Michael McCarthy, on June 2, 1909. John E. Scott, on June 17, 1909.

Aaron Higgins, on December 7, 1909.

Attached is a statement of moneys collected for damages caused to canal property by different vessels; also a statement showing the highest and lowest recorded depths of water on the mitre sills of the locks at Port Dalhousie and Port Colborne for each month of the year.

I have the honour to be, sir,

Your obedient servant,

J. L. WELLER.

Superintending Engineer.

W. A. Bowden, Esq., Chief Eugineer, Dept. Railways and Canals, Ottawa, Ont.

## WELLAND CANAL.

STATEMENT showing the highest and lowest depths of water on the Lower Mitre Sill, Loek No. 1, New Welland Canal, Port Dalhousie, for the fiscal year ending March 31, 1910.

Months.	Lowe	r Sill.	Months.	Lower Sill.				
	Highest.	Lowest.		Highest.	Lowest.			
1909.	Ft. In.	Ft. In.	1909.	Ft. In.	Ft. In.			
April May June, July	13 8 14 6 14 6 14 3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	November,	12 8 12 4	12 4 12 1			
August September. October.	14 2 13 10 13 1	13 9 13 2 12 7	January. February. March	$\begin{array}{ccc} 12 & 3 \\ 12 & 3 \\ 12 & 10 \end{array}$	11 11 12 1 12 2			

STATEMENT showing the highest and lowest depths of water on the Upper Mitre Sill, Loek No. 27, New Welland Canal, Port Colborne, for the fiscal year ending March 31, 1910.

Months.	Uppe	r sill.	Months.	Upper Sill.				
	Highest.	Lowest.	Troilin,	Highest.	Lowest.			
1909.	Ft. In.	Ft. In.	1909.	Ft. In.	Ft. ln.			
April. May. June. July	13 2 13 6 13 2 13 0	10 8 11 8 11 11 12 4	November	13 7 16 0	10 8 13 0			
August	12 6 13 0 14 5	$ \begin{array}{cccc} 12 & 1 \\ 11 & 4 \\ 10 & 6 \end{array} $	January. February. March.	12 2 11 0 11 11	9 8 10 2 10 6			

STATEMENT of Damages to Welland Canal property during the fiscal year ending March 31, 1910, and the amount paid on account of said damages.

Date of Damage.	Name of Vessel.	Amount of Damage.	Amount Paid.	Date paid.	Where paid,	
June 2 May 16	TugʻJ. E. Russell'. Str. 'Corrunna'. Gargantua'. 'Gargantua'.	\$ cts.  30 00 26 94 6,485 66 100 10	26 94 5,000 00	May 14 Aug. 3 May 18	Port Colborne, Port Dalhousie, Port Colborne, Port Dalhousie,	
Nov. 11	" 'Samuel Marshall'	100 05	100 05	1910.   May 18	Port Dalhousie.	

## SAULT STE. MARIE CANAL.

SUPERINTENDING ENGINEER'S OFFICE.

SAULT STE. MARIE, Ont., April 1, 1910.

SIR,—I have the honour to report upon the maintenance and operation of the Sault Ste. Marie canal for the fiscal year ending March 31, 1910.

The canal opened for traffic on April 21, 1909, and closed on December 16, having been in operation for 225 days. Traffic was interrupted on three occasions, amounting in all to about 14 days.

Traffic passing this point during the last season showed a very large increase over the figures for 1908, but amounted to about the same as in 1907. The traffic through the Canadian caual, however, showed an increase of 86 per cent over 1908 and 46 per cent over 1907, indicating that a larger proportion of the traffic went through the Canadian canal than heretofore, which was owing, largely, to the fact that the depth of water on the sill of the Canadian lock is about six inches greater than on the sill of the American lock, and also owing to the fact that the approaches to the Canadian canal have been greatly improved.

The usual exchange of ship's reports was made with the St. Mary's Falls canal from which a statistical report has been compiled and published by the United States canal authorities, of the traffic passing this point, and from which the following statement is derived.

_							
Year.	Number of Vessels passed.	Registered Tonnage of Vessels.	Total Freight Tonnage.	Cost of Carrying per mile ton.	Estimated Value of freight carried.	Percentage of Freight carried in Canadian Vessels.	Number of Passengers.
				Mills.	\$	р. с.	
1855	193	106,296	14,503				4,270
1860	916	403,657	153,721				9,230
1865	997	409,062	181,638				19,777
1870	1,828	690,826	539,883				17,153
1875	2,023	1,259,534   $1,734,890$	833,465				19,685 $25,766$
1880 1885	3,503 5,380	3,035,987	1,321,906 $3,256,628$				36,147
1890	10,557	8,454,435	9,041,213	1.3	102,214,948	3.5	24,856
1891	10,191	8,400,685	8,888,759	1.35	128,178,208	4.0	26,190
1892	12,580	10,647,203	11,214,333	1.31	135,117,267	3.8	25,896
1893	12,008	8,949,754	10,796,572	1.1	145,436,957	4.1	18,869
1894	14,491	13,110,366	13,195,860	. 99	143,114,503	3.2	27,236
1895	17,956	16,806,781	15,062,580	1.14	159,575,129	3.75	31,+56
1896	18,615	17,249,418	16,239,071	1.0	195,146,842	3.	37,066
1897	17,171	17,619,923	18,982,755	.83	218,235,927	3.0	40,213
1898	17,761	18,622,764	21,234,634	.79	233,069,739	2.2	43,426
1899	20,255	21,958,347	25,255,810	1.5	281,364,750	3.1	49,082
1900	19,452	22,315,834	25,643,073	1.18	267,011,959	3.0	58,555
1901	20,041	24,626,976	28,403,065	. 99	289,906,865	4.0	59,663
1902	22,659	31,955,582	35,961,146	. 89	35%,306,300	4.0	59,377
1903	18,596	27,736,444	34,674,437	.92	349,405,014	6.0	55, 175
1904	16,120	24,364,138	31,546,106	.81	334,502,686	6.0	37,695
1905	21,679	36,617,699	44,270,680	.85	416,965,484	2.0	54,204
1906	22,155	41,098,324	51,751,080	'84	537,463,454	5.0	63,033
1907	20,437	44,087,974	58,217,214	'80	569,830,188	5:0	62,758
1908	15,181	31,091,730	41,390,557	69	470,141,318	7.0	53,287
1909	19,204	46,751,717	57,895,149	.79	626,104,173	6.0	59,948

#### ACCIDENTS.

On June 9 last, at 1.45 p.m., while the Canadian Pacific Railway Company's steamer Assiniboia was in the lock, the Crescent City of the Pittsburg Steamship Company entering the lock at the upper end, and Mr. C. S. Boone's dredge No. 10 was lying near the end of the lower north entrance pier the steamer Perry G. Walker, of the Gilchrist Transportation Company, entered the lower approach to the canal and attempted to make a landing at the north pier, but through some misunderstanding of the signals the engine failed to reverse in time and the steamer was carried against the south lower main gate, forcing it back and allowing the north gate to fall over. The force of the current carried the Walker back, her bow swinging to the south and the Assiniboia was carried down against her, striking a glancing blow on the starboard side amidships.

The Crescent City made every effort to retard her motion by getting lines out and reversing her engine, so as to give the other vessels time to get out of the way, but she was carried against the Assiniboia, striking the latter a glancing bow on the starboard quarter.

The Walker also collided with the north and south entrance piers, doing serious damage to both of them.

The Crescent City dropped on to the breast wall of the upper main gates, carrying away the timber work from the top and lower face of the wall and also breaking off the corner of the masonry.

Both the Assiniboia and Crescent City collided with the lower main gates in passing, breaking both gates, the north gate on a line parallel to the timber and the south gate on an oblique line from the centre of the bottom timber to about the centre of the toe of the gate.

All the vessels made their way to the American side of the river, with the assistance of tugs, where they were examined by divers. The Assiniboia, after waiting some hours and making sure that she was not seriously damaged, proceeded on her way to Owen Sound. The Walker, after making some temporary repairs was able to proceed up through the American lock on the 12th, on her way to Superior. The Crescent City sank at the wharf on the American side of the river, but was raised three or four days later and proceeded ou her way to Cleveland.

The upper main gates, which were open at the time of the accident, remained in position for a few moments, but were finally drawn away from the wall by the current and torn from their fastenings.

The auxiliary gates were made secure and then attention was given to the closing of the movable dam, which work was accomplished at 9 p.m., with the exception of six wickets which jammed and one wicket frame which buckled so badly that it could not be used, and was hoisted up out of the way. The six wickets were forced down to place with fifty ton hydraulic jacks.

The space, 6 feet x 25 feet, which should have leen closed by the broken wicket and frame, was closed by making a bulkhead of 10- inch x 12-inch x 24 feet pine timbers and forcing it down with hydraulic jacks. In this operation two fifty-ton and one one-hundred ton hydraulic jacks were used, and the bulkhead forced down 24 feet, when it refused to go further, and the final 1 foot of space closed by loading a stick of timber with sand bags and lowering it down until the current took it in to place.

This placing of the bulkhead proved to be a work of considerable difficulty, owing to the fact that the timber had to be forced over the rivet heads and brace rods on the upper side of the frames. Had the surface of the frames been smooth much less difficulty would have been experienced.

The openings between the wicket frames were partly closed with planks, bundles of straw and sand bags and on the afternoon of the 13th it was decided to make an attempt to close the auxiliary gates, the necessary tackle having previously been got ready.

At 3.10 p.m. on the 13th, with the current running at three miles per hour, the auxiliary gates were safely closed, having been severely strained during the operation.

Forty-five minutes after the gates were closed the water had risen to the upper level between the gates and the dam, giving an idea of the amount of leakage through the dam.

The upper and lower guard gates were then closed, considerable difficulty being experienced in closing the latter owing to the large amount of sediment deposited around the gates, and the pumps were not started until 2 a.m. on the 14th. The work of pumping out the lock proceeded very slowly, as the culvert leading to the pumps was badly clogged.

After the lock was unwatered, it was found that the breast wall at the upper main gates was swept clean of sheaves, timber work, &c., and the top corner of the lower side of the wall chipped off. New sheaves, which were on hand, were placed, new timbers put in position and the wall repaired with concrete.

In the bottom of the lock, immediately below the upper breast wall, both thicknesses of planking were torn off for a considerable area and the timbers over one culvert broken for an area of about 10 feet square, apparently by the south main gate when it was carried away. These timbers and planking were replaced.

Thirty-six of the forty gratings, which cover the entrance to the culverts at the upper end, were torn off and carried down into the culverts. These had to be taken to pieces, straightened and replaced.

A very large quantity of sand and stones, carried down from above the lock, was deposited at both ends of the lock, and in the culverts, all of which was removed.

Three light cables, which crossed the lock at the lower end and which were carried away, were replaced.

All of the work in the lock bottom was completed at noon on the 17th, the water let into the lock, and the work of raising the dam commenced.

The damaged lower main gates were removed and placed behind the lower entrance pier. The upper main gates were located by sweeping, on the bottom in the lower entrance and were raised and placed behind the lower entrance pier.

The lower entrance was swept and a large deposit found immediately below the

lock, all of which was removed by a dredge, and a derrick scow with a diver.

The spare upper main gates which were built last spring were stepped at 4 p.m. on the 18th, but owing to some difficulty in the fit of the gates, the lock was not opened

for traffic until 5.30 p.m. on the 21st.

The locking of vessels was resumed with the new solid timber upper main gates and the old frame auxiliary gates, the latter being used in place of the lower main gates which were carried away. The only other gates left were the old frame upper and lower guard gates. These frame gates were all in bad condition, more particularly the auxiliary gates, and it was thought best to abandon them and replace them with solid timber gates. A contract was, therefore, entered into with Messrs. Roger Miller & Sons to build seven pairs of gates, that is, one pair of upper guard gates, one pair of lower guard gates, one pair of upper main gates for spare, two pairs each of lower main and auxiliary gates, one pair of each being for spare; so that when the contract for the building of gates is completed the lock will be equipped throughout with solid timber gates and with spare gates for the upper and lower main and auxiliary gates.

A full set of solid timber gates will be stepped by the opening of navigation this season, and all gates will be equipped with fastenings so that when they are pulled back into the recesses they will be locked to the wall, and thus be secured from being

carried away in case of another accident of this kind.

The movable dam, which on the whole was a decided success, developed a number of weaknesses, more particularly in the bracing of the wicket frames. This bracing on the lower end of the frames consisted of 1-inch rods, most of which bent, allowing the frames to buckle; one frame being as much as 5 feet out of line at one end.

A great deal of difficulty was experienced in forcing the bulkhead down and also in placing planks over the openings between the frames on account of the brace rods and round rivet heads which interfered. The dam could be much improved by making the upper face of the frames smooth, by countersinking the rivets and placing the bracing on the inside of the frame, so that timber for planks could be forced down, if it became necessary to close the water off completely.

The cribwork of the lower entrance piers, where damaged by the Walker, has since

been repaired.

At noon on September 5 the steamer A. H. Hawgood, belonging to Messrs. Hawgood & Co., of Cleveland, while downbound and crossing over from the south to the north pier, failed to answer her helm readily and came against the north wall with such force as to turn the float up on edge.

A hole 2 feet x 6 inches x 6 inches was made in her No. 1 port tank, which filled and the vessel settled about two and one-half feet to port. She was backed up to the end of the north pier and lightered and was passed down through the lock at 2 a.m.

Traffic was not interrupted.

At 10 p.m. on September 25 the steamer *Midland King*, of the Midland Navigation Company, when approaching the lock from below, sheared to starboard, striking the lock wall, crushing in her fender streak and bending a plate between frames on the starboard side.

On November 26, while the steamer *Empress of Midland*, of the Midland Navigation Company was working her way towards the lock, along the north upper entrance wall, with two linemen ashore, the lock valves were partly opened, creating a current. The vessel was checked with her lines, which parted, allowing her to swing across the canal with her stern against the south wall. The captain then attempted to

swing the stern of the vessel back by working the wheel when the blades of the latter were stripped off by striking the wall.

On December 27, while repairs to the lock were in progress, one man fell from the top of the wall down to the bottom of the lock and was instantly killed, while another man who was on the lock bottom had his arm broken by a falling timber.

#### PRECAUTIONS TAKEN TO PREVENT ACCIDENT TO THE LOCK.

Owing to the accident to the canal on June 9 last it was considered necessary to take precautions to prevent such accident in future, and to accomplish this end rules were posted up in the office to regulate the movement of boats approaching the eanal. To see that these rules were carried out and to assist boats in landing at the piers, two extra linemen were appointed and stationed, one on the south pier in the lower entrance and the other on the north pier in the upper entrance.

All vessels are expected to come to a stop at the entrance piers, nuless the gates are open for them, and to put linemen ashore. They are then permitted to enter the lock with their lines ready to check the movement of the vessel if necessary.

#### CONGESTION OF TRAFFIC.

Owing to the large increase in traffic during the last season, and also owing to the fact that the movement of vessels is not continuous, some days there being comparatively few boats and on others a great many, it was found impossible on busy days to accommodate all the waiting vessels at the piers, and a number were compelled to anchor out in the river to await their turn. As the place of anchoring is about two miles above the lock and beyond the control of the lockmaster, it became necessary during the latter part of last season to put on a patrol boat to regulate the movement of these vessels, send them to the lock in their proper turn and prevent them from racing for the lock. These arrangements worked well and it would seem desirable in view of the probable large increase in traffic in the future to continue them permanently.

## INTERRUPTIONS TO TRAFFIC.

On two occasions during the past season the Poe lock of the American canal was cut of commission, on the first occasion for three days, when the Canadian canal was working continuous for 101 hours passing 184 vessels of a total net registered tonnage of 553,287; and on the second occasion for eight days when the Canadian canal was in continuous operation for 264 hours passing 460 vessels of a total net registered tonnage of 1,372,145.

· On the latter occasion the blockade of vessels proved to be quite serious, there being at one time 87 vessels waiting in the river above and 25 vessels waiting in the river below the canal.

Most of these vessels were delayed from 60 to 100 hours, while four vessels, which were too wide for the Canadian lock, were delayed a week. An estimate of the loss to the vessels delayed, based on their earning capacity, shows a loss of \$250,000.

## OBSTRUCTION TO NAVIGATION.

A great deal of trouble was experienced during last season by vessels grounding near the end of the north upper entrance wall. Soundings taken at this point showed a deposit of clay and stones about 25 feet in width by 150 feet in length. This shoal was removed by a dredge and derrick seow.

## PAVEMENTS.

Owing to the numerous aecidents which have occurred to lockmen and others in walking along the lock wall where lines from vessels were stretched across, a concrete pavement was constructed parallel to the lock and behind the mooring posts.

#### DRAFT OF VESSELS.

It has been found in the past that the marks on the bow and stern of vessels, indicating their draft, do not give the correct draft of the vessels, owing to the fact that loaded vessels will sag amidships as much as six inches when loaded. This has resulted in vessels being locked through with a greater draft than that recommended and the gate eables were frequently cut, eausing considerable delay. This suggests the desirability of having all vessels marked amidships as well as at bow and stern, and an attempt was made during last season to have vessel owners mark their vessels in this way.

#### RANGES.

At the opening of last season the rear lower entrance range tower was blown down in a storm, and a temporary range was established by using the front range for a back range and erecting a temporary range in front. The rear tower has since been erected and the range restored as before.

In the upper entrance the old range was abandoned during last season owing to the dredging operations which were in progress and a temporary range erected. As the dredging of the channel was completed and a new centre line adopted, two new steel towers were erected for front and back ranges, and the old wooden beacon which formerly acted as a front range will shortly be removed.

#### NORTH UPPER ENTRANCE PIER.

This pier, which had been in a bad condition for some time, collapsed at the shore end during the early part of last season, and it was decided to dredge out the old pier and rebuild it on a line continuous with the north entrance wall. Accordingly a contract was entered into with Mr. J. J. Collins on September 18, 1909, to rebuild the pier, but owing to the lateness of the season nothing was done. This work will be commenced, as soon as the weather will permit, this spring.

## NORTH LOWER ENTRANCE PIER.

The portion of this pier above water is in bad condition, and will be required to be overhauled. A portion of this work will be done during the coming season and the remainder earried over another year.

I have the honour to be, sir,

Your obedient servant,

J. W. LEB. ROSS,

Superintending Engineer.

W. A. Bowden, Esq.,
Aeting Chief Engineer,
Dept. Railways and Canals,
Ottawa, Ont.

# SAULT STE, MARIE CANAL.

# Comparative Statement since Opening of Lock, Sept. 9, 1895.

						_
	Season.	Increase or decrease over previous season.	Season.	Increase ordecrease over previous season.	Season.	Increase or decrease over previous season.
	1895.		1896.		1897.	
Period open Canadian registered tonnage U.S. registered tonnage Total tonnage. Lockages Vessel passages. Fime passing lock Average time lockage.	Sept. 9. (Dec. 6, 125,240 623,131, 748,371 698 1,193 212 h. 27 m. 18.26 m.		May 7. Dec. 10. 586,571 3,810,794 4,397,365 3,042 5,189 984 h. 22 m. 18.42 m.	2,344 3,996	3,804,361 2,976	—188,228 —404,776 —593,004 —66 —813 300h. 11m.
	1898.		1899.		1900.	
Period`open Canadian registered tonnage U.S. registered tonnage Total tonnage Lockages Lockages Vessel passages, Time passing lock Average time lockage	2,757,937 $2,520$ $3,712$	-456 -664	643 h. 16 m.	33,835 192,263 90 108	1,616,139 2,195,667	17,769 772,302 754,533 405 657 101h 52m.
	1901.		1902.		1903.	
Period open Canadian registered tonnage U.S. registered tonnage Total tonnage Lockages Lockages Vessel passages Time passing lock Average time lockage		701 1.080	3,238,069 $4,604,156$ $3,418$ $5,169$	1,565,438 2,155,194 512 926	3,145,020 4,761,405 3,242 4,418	250, 298 - 93, 049 157, 249 176 751 -42h, 47m
	1904.		1905.	1	1906.	
Period open  Canadian registered tonnage  U. S. registered tonnage  Total tonnage  Lockages  Vessel passages  Time passing lock  Average time lockage	1,557,335 2,637,090 4,230,425 3,012 4,092 811 h. 28 m.	471,930 530,980 —230 —326	3,739,224 5,538,560 4,031 5,853	$\begin{array}{c} 1,066,134 \\ 1,308,135 \\ 1,019 \\ 1,761 \end{array}$	4,399,990 6,359,176 4,152	
	1907.		1908.		1909.	
Period open Canadian registered tonnage U.S. registered tonnage Total tonnage Lockages Vessel passages. Time passing lock Average time lockage.	(April 22. Dec. 15. 2,288,349 9,887,633 12,175,982 4,596 6,153 1378 h. 58 m.	5,487,643 5,816,786 444 240	April 21. Dec. 15. 2,556,552 7,038,389 9,594,941 3,667	-2,849,244 -2,581,041 929 809	$14,899,562 \\ 17,812,148 \\ 5,046 \\ 6,420$	7,861,173 8,217,207 1,379 1,076

## RIDEAU CANAL.

## SUPERINTENDING ENGINEER'S OFFICE,

Ottawa, April 1, 1910.

SIR,—I have the honour to submit herewith my report on the Rideau canal for the fiscal year ending March 31, 1910.

Navigation opened at Ottawa on May 1, 1909.

Navigation opened at Kingston Mills on May 1, 1909.

Navigation closed at Ottawa on November 30, 1909.

Navigation closed at Kingston Mills on November 29, 1909.

My last report which was written a few days before the spring freshet commenced last year, stated that I did not anticipate any serious damages therefrom, but I regret to have to record a most serious washout in the bank of the river at Black Rapids lock station, where the new dam abutted into it, on the Gloucester side of the river—a washout which delayed through navigation to Ottawa until the middle of June, as the break could not be closed until the water had subsided.

Particulars of this accident will be found under the heading of 'Black Rapids' in this report.

With the exception of the delay at the above mentioned point, navigation was uninterrupted for the whole season.

This year the spring freshet commenced the first week in March—a phenomenally early break up; earlier in fact than has ever been recorded in the history of the canal, and the water rose so fast that the work of rebuilding the west bulkhead at Hogsback (which was going on at the time) had to be temporarily abandoned, as it could not be completed until after the water had subsided. The apron is still too deeply submerged to resume work, but we have a month yet before navigation opens, and as the water must surely fall now that the freshet is subsiding, I have no anxiety about having the structure ready for navigation by May 1; in fact one week will be sufficient to raise all the bents, as all the sills except one are in place and the rest of the structure is framed ready for erection.

The principal works and repairs executed along the liue of the Rideau canal during the past fiscal year ending March 31, 1910, are as follows:—

# OTTAWA LOCK STATION (8 Locks and Basin).

Two pairs of lock gates for locks Nos. 5 and 6 were framed last summer, and are now being hung in place. The wide flight of stone steps on each side of lock No. 3, which had been dangerous on account of the disintegration of the stone, were covered last summer from top to bottom with a three-inch coat of fine concrete. The result is most satisfactory as this cement coating has stood the frost of last winter without a crack; and now these two fine flights of steps—which are sixteen feet wide, and each of which contains 20 steps—are as good as new. Sundry small repairs were made to the wharfs and roads round the canal basin.

A large quantity of stone was taken from the excavation for the new Grand Trunk railway hotel at the head of the locks—the stone having been given free by the contractor, Mr. John O'Toole, and taken on our scows to Black Rapids lock station; and there used for filling the new cribs built last winter. The Grand Trunk Railway Company is now, by permission of the Department, taking down the old cribwork on

the east side of the basin, and building in its place a fine concrete retaining wall, from Sappers to Laurier bridges.

#### OTTAWA EAST SWING BRIDGE.

The approaches and swing span were replanked. An iron pipe railing on cast standards was erected by contract with the International Marine Signal Company, of Ottawa. Small repairs were made to the timber rest piers, and the bridge and the bridge keeper's house were painted.

#### . BANK STREET SWING BRIDGE.

The east pier of the bridge (which was being built when I made my last report) was completed. The turntable was repaired and small general repairs made. The bridge keeper's house and the bridge were painted.

## CONCESSION STREET SWING BRIDGE.

Small repairs were made to the flooring of the bridge, and the bridge and the bridge keeper's house were painted. The roadway between this bridge and the St. Lawrence and Ottawa Railway bridge (Canadian Pacific Railway) across the top of Dow's lake dam, was raised and graded with gravel; the work being done by contract with Mr. Owen McCarten, of Billings Bridge, Ont.

# HARTWELL'S LOCK STATION (2 Locks).

The lockmaster's and lock labourers' houses were painted. About 900 feet of the eastern side of the cut were rip-rapped with stone to save the banks, and sundry repairs were made to the station generally.

## HOGSBACK LOCK STATION (2 Locks and 1 Swing Bridge).

The lower end of the apron below west bulkhead was extended about 70 feet down stream, and has answered its purpose well; but it requires to be still further carried out this summer, to reduce the steep pitch of the water and ice during freshets, to save the scouring out of the soft shale rock at its foot. A new double boom was placed across the bay above the bulkheads to anchor the ice. A considerable length of the cut was rip-rapped with stone to save the erosion of the banks, which work has been gradually carried on for the past few years, and I hope this summer will complete it.

The west bulkhead which had become unsound from age, was taken down, the new one having been framed last year. The front of this structure was excavated and sheeted down to the rock; but before the bents could be crected, the unusually early break up, which occurred the first week in March, fully one month ahead of its usual time, flooded the site of the work, and we were consequently forced to cease work temporarily, until the water subsided. All the new sills, excepting one, were in place, and nothing remained but to erect the bents upon them and connect them with the roadway at each end.

This could have been done in a week, had the water not stopped the work; and it will be finished before navigation opens. No damage of any kind occurred, and we saved all the framed timber which was lying ready to erect. The only inconvenience occasioned was the interruption to highway travel across the bulkheads, but as this roadway is not recognized as a bridge (having been always posted 'No thoroughfare' at each end). no one has any real grievance at being turned back; but in order to protect the public, barriers have been erected at each end, and a night watchman placed in charge until the crossing is re-established.

The rest and protection piers above the upper lock were rebuilt, the lockmaster's house was painted, and sundry repairs were made to the station in general.

# BLACK RAPIDS LOCK STATION (1 Lock).

As stated in the preamble to this report, very serious damage was done by the washing out of the river bank on the Gloucester side, at the point where the new dam was built into it. The freshet in 1909 was the highest ever recorded, and the water cut round the end of the dam abutment and into the banks (which are nothing but sand) to such an extent that the dam was left standing about 200 feet out in the river. An enormous quantity of sand was cut out of the banks which are about 25 to 30 feet high; but fortunately it found its way into deep portions of the river below, and shoals were formed away from the channel, so that no obstruction to naviagtion arose from this cause.

To close this breach in order to impound the water for navigation, a coffer dam of square timber cribwork had to be put in, extending diagonally upstream for 375 feet; and great difficulty was experienced in connecting it with the shores, on account of the sand formation, which was eaten away by the water whenever a junction with the banks was made. Eventually, however, this was done; much vexatious delay having occurred whilst waiting for the first volume of the freshet to subside, and the cribs were placed in position and loaded with sacks of sand (no stone being available).

The next difficulty was the eaulking of these eribs, as after they were sheeted with 3-inch plank, the water continually scoured underneath them, as the bottom was also fine sand and boulders; but in the end the leakage was finally overcome by means of large canvas tarpaulins, each being 200 feet x 40 feet, which were nailed to the sheeting and held out in the water by ropes and gradually allowed to be drawn down by the suction of the leakage. Sand and clay were then piled on top of the canvas, and the leakage stopped sufficiently to maintain navigation and allow of the repairs being made to the main dam.

All this work involved a delay to navigation of about six weeks, but when it is remembered that the coffer dam had to be built in the middle of a rushing river over 12 feet deep, with no anchorage but sand hills, no foundation but sand, and no ballast but sand bags; and also the fact that all the materials used in its construction had to be transported eleven miles to the site of the work over country roads, and at a season of the year when all roads are at their worst, I think it will be admitted that no undue delay was occasioned to the boatmen.

By direction of Mr. M. J. Butler, late chief engineer, the main dam was extended 100 feet, and a wing crib was built both above and below the dam, and up the gully into the bank.

The whole of the main dam has been covered with 4-inch steel plate; the plate baving been purchased from Messrs. Drummond, McCall & Company, of Montreal, and the contract of laying the same having been awarded to the International Marine Signal Company of Ottawa. The new dam has stood the present freshet well, but there is a troublesome leakage under the wing crib at the point where it turns up the gully. I am of the opinion that 10-inch x 12-inch square piles are required all round the face of this portion of the crib, as sheeting cannot be driven down by manual power through the sand and boulders; but a pile driver can drive square timber down, and in this way I hope cheek the leakage. I have sent our pile driver down to the spot, and the piles will, I hope, arrivo in two weeks, which will give us two weeks to drive them before navigation opens, after which it is proposed to deposit elay by means of a dredge and dump scows to completely staunch all the leakage.

The stone filling for all this work, amounting to over 3,000 cubic yards was supplied from our own quarry; but taken out and delivered into the cribs by contract with Mr. Bruley, of Billings' Bridge, Ont. The lower gates of the lock were rebuilt and the lower mitre sill renewed and concreted—the latter work necessitating the

pumping out of the lock. The waste weir bulkhead was also renewed, and a new stone filled cribwork facing was built from the lock to the waste weir. The lay-by piers above the lock were also rebuilt, and repairs were made to the ice breakers in the river.

# LONG ISLAND LOCK STATION (3 Locks and 1 Swing Bridge).

A new boom was framed and laid at the head of the island, and repairs made to the tops of the piers at the same place. Repairs were made to the piers at the White Horse dam, and sundry small repairs made to the station in general.

#### MANOTICK BRIDGE.

The bridge was painted by the bridge-tender, and sundry repairs made to the flooring and piers.

#### WELLINGTON BRIDGE,

Sundry small repairs were made to the flooring of the bridge by the bridgetender. Next winter, however, the entire superstructure requires to be raised off the piers, and the latter rebuilt down to low water mark.

#### BECKETT'S LANDING BRIDGE.

No repairs were made to this bridge.

# BURRITT'S RAPIDS LOCK STATION (1 Lock).

Extensive repairs were made here this winter to the south chamber wall and both upper wings of the lock, which were taken down and rebuilt—the lock having to be dammed above and below and pumped out for this purpose.

The lower gates were also renewed. A considerable stretch of the north side of the upper cut was faced with stone and filled up where it had been washed away—thus continuing the work commenced last year. Sundry small repairs were made to the station in general.

## BURRITT'S RAPIDS BRIDGE.

The only repairs at this bridge consisted of pointing the masonry of the piers, which work is still in progress.

## NICHOLSON'S LOCK STATION (2 Locks and 1 Swing Bridge).

Two pairs of lock gates were renewed, i.e., the upper gates of the lower and upper locks respectively, and two new sluice frames were put in. The upper wing walls, upper sill and gate recesses of the upper lock, were taken down and rebuilt with new stone. The lower sill of the upper lock was repaired, concreted and planked, and the chamber walls grouted. The old timber waste weir at the head of the upper cut was taken out and a mason; weir built in its stead. Sundry small repairs were also made to the station in general.

## CLOWES LOCK STATION (1 Lock).

Small repairs were made to the station generally, and some stumps were blasted out of the river above the lock, during the winter.

MERRICKVILLE LOCK STATION (3 Locks, 2 Basins, 2 Bridges).

The north waste weir, which was slightly damaged by ice a year ago, has been repaired; as were also the stop-log piers at the head of the eut. Some new stop-logs were framed, and sundry small repairs were made to the station in general.

# KILMARNOCK LOCK STATION (1 Lock and 1 Bridge).

The timber bulkhead was taken down and rebuilt during the winter, and repairs made to the back dam in the break ground. This dam is merely a pile of stones and cannot be made tight within a reasonable expenditure. A new dam should be built further up the river; and I intend making an examination of the river for this purpose during the coming summer.

## EDMONDS LOCK STATION (1 Lock).

The by-wash was re-covered and planked. Two new swing bars were framed and placed on the lock gates. Some wire feneing was erected round the lock house, and sundry small repairs were made to the station generally.

OLD SLY'S LOCK STATION (2 Locks and 1 Bridge).

Sundry small repairs were made to the station in general.

SMITH'S FALLS COMBINED LOCK STATION (3 Locks, 1 Basin, 2 Bridges).

The old frame addition to the lock house was torn down and rebuilt, and the whole building re-shingled. A new flight of steps was built on the south side of the upper lock near the band stand to save the lock slopes. A new circular rest wall of concrete was laid under the heel of the swing bridge, and two new swing bars were framed for the lock gates. The work of filling up the south side of the basin was continued last year as usual, and now a large area of this useless stretch of water is filled up, and is proving a great saving in water, and also has reduced the leakage at that point. The work will be continued this year.

## SMITH'S FALLS DETACHED LOCK STATION (1 Lock and 2 Bridges).

A new wharf was built at the head of the lock, which will prove of great value to the boats and also be the means of saving much of the water which has hitherto been required to fill the basin. This will not be required as much now as the boats need not go down into the basin, as they can stop at the new wharf. Our dredge excavated a small channel above the dam in the vicinity of the boat houses, in order to give the numerous motor boats a means of access to the main channel. The turntable of the swing bridge was repaired, and sundry small repairs were made to the station generally. The location of the Canadian Northern railway which was laid out along the dam and across the lock, having been objected to on account of being too close to our works, was changed, and is now located about 400 feet above the lock where it will not interfere in any way with navigation.

# POONAMALIE LOCK STATION (1 Lock).

The upper lock gates were taken out and repaired, and small repairs were made to the upper sluices. The stop-log piers at the head of the upper cut were also rebuilt from low water line up. The foot of the long concrete dam was repaired where it has been damaged by ice and water, and sundry small repairs were made to the station generally.

I may state that the lockages at this station have increased very largely during the last two seasons; the total number last year being 3,076, an increase of nearly 500 over 1908, and of nearly 900 over 1907.

# BEVERIDGES LOCK STATION (2 Locks and 1 Bridge).

The back dam was repaired with clay. The swing bridge was re-planked with 3-inch plank, and some culverts in the cut were repaired. Repairs were made to the lock sluices, and the cribwork protection piers below the lower lock in Rideau lake, which had been heaved up by ice, were replaced and respiked and refilled with stone. Small repairs were made to the lock house and to the station generally.

## PERTH BRANCH (Basin and 4 Bridges).

Gore Street bridge was painted. The culvert at Craig Street bridge was repaired, and the roadway from Beckwith street bridge to the Canadian Pacific railway car shops was graded and gravelled. About 900 feet of dry stone walling was built along the face of the canal to protect the clay banks, and sundry small repairs made to wharfs and basin. Bridge-tender Russell deserves the greatest credit for the improvements he has made to the basin and surroundings (which are in the heart of the town), in the shape of the grass lawns and flower beds which he has made and which beautify the spot, and which are much appreciated by the residents of Perth.

## BOB'S LAKE RESERVOIR DAM.

No repairs were made last year to this dam, which feeds the Tay river, and which is situated about 24 miles above Perth.

## OLIVER'S FERRY BRIDGE.

Sundry small repairs were made by the bridge-tender.

# THE NARROWS LOCK STATION (1 Lock and 1 Bridge).

The old by-wash was taken out and a new one framed aud put in. Sundry small repairs were made to the station generally.

## NEWBORO LOCK STATION (1 Lock and 1 Bridge).

Both the upper wiug walls of the lock, the gate recesses, and portious of the chamber walls, were taken down and rebuilt. For this work the lock had to be dammed above and below and pumped out. The work was delayed by the early freshet this year, which filled up the lock; but the dams were raised and strengthened, and the work completed after about ten days delay. Both the upper and lower mitre sills were re-bolted, concreted and planked. Repairs were made to the piers at the head of the cut, and also below the lock. Two small timber piers were built in the lake below the lock, to mark the shoals at Whitehall and Fingerboard islands respectively.

## CHAFFEY'S LOCK STATION (1 Lock and 1 Bridge).

One pair of lock gates were renewed, and the swing bridge across the lock was rebuilt. Two new swing bars were framed. Sundry small repairs were made to the lockmaster and lock labourer's house.

## DAVIS'S LOCK STATION (1 Lock).

The lay-by piers at the head of the lock were taken down and rebuilt, and the dam was protected in front of the storehouse by means of cribwork. Sundry small repairs were made to the station generally.

JONES'S FALLS LOCK STATION (4 Locks, 1 Basin, 2 Bridges).

Two of the lock recesses were concreted and repaired. The swing bridge across the upper lock was taken down and rebuilt. Considerable gravel and debris were cleaned out of the lower lock by our diver, who also repaired the lower mitre sill. A small wharf was built at the head of the upper lock for the accommodation of small boats. The two bridges were painted and sundry small repairs were made to the roads and to the dam, and to the station in general.

## MORTON DAM.

Some gravel was placed in front of the dam, and small repairs were made to the planking and handrailing. .

### BRASS' POINT BRIDGE.

No repairs were made to the bridge last year.

BREWER'S UPPER MILLS LOCK STATION (2 Locks, 1 Basin, 1 Bridge).

A considerable quantity of woven wire fencing was erected from the 'Roundtail' to the end of the reserve on the north side of the canal—a distance of over a mile. This was rendered necessary on account of long standing friction between the lock officials and the owner of the land adjoining—each side paying half the cost of the same. Sundry small repairs were made to the station in general.

BREWER'S LOWER MILLS LOCK STATION (1 Locks, 1 Bridge).

The old swing bridge across the lock was taken down and rebuilt; and sundry small repairs were made to the station in general.

KINGSTON MILLS LOCK STATION (4 Locks, 1 Basin, 2 Bridges).

The long bridge across the waste water channel, which was built of timber on trestle bents, was taken down, and a fine structure of steel on concrete piers substituted therefor. The contract for the substructure, consisting of two concrete abutments, rip-rap, dry stone walling, roadway, fencing, &c., &c., was awarded by contract from the department to Messrs. Fallon Bros., of Cornwall, Ont., and the steel superstructure was awarded to the Hamilton Bridge Works. The old addition to the blockhouse was partly taken down and enlarged, and sundry small repairs were made to the other lock labourers' houses. Three hundred cubic yards of stone were quarried and placed where required on the embankments by contract with Mr. J. Keenan, of Kingston Mills. Small repairs were made to the sluice frames and to the station generally. The basin wall is showing signs of age and will require to be rebuilt next year.

#### GENERAL.

The usual spring repairs of pointing and grouting the lock masonry, painting of gates and bridges, &c., were made by our lock labourers. The stone for the repairs to the locks last winter was taken out and cut in Westport quarry, where we moved a year ago from Elgin, as the latter quarry was exhausted. The stone is of most excellent quality, and the quarry itself is much more conveniently situated with regard to shipping facilities and consequently the stone costs us far less than when procured at Elgin.

All our large supplies were furnished by tender, the various contracts being awarded by the department as follows:—

Lock gate and bridge timber (B.C. fir), to the Hurdman Lumber Company.

20-183

Smaller dimension timber and plank to the Hurdman Lumber Company, the W. C. Edwards Company, Limited, the Ottawa Lumber Company, and the Stewarton Lumber Company.

The Portland cement required was awarded to the Lakefield Portland Cement

Company.

The paint was awarded to Messrs. Brandram-Henderson, Limited, of Montreal; and the oil to McColl Bros. & Company, of Montreal.

#### DREDGING PLANT.

The dredge *Rideau* was employed all last summer in making a 50-foot channel through the drowned lands across Sawlog bay, and she has completed about half the distance. This cut when completed will save over one mile in distance from Poonamalie to Oliver's Ferry. The dredge also excavated a small channel in front of the boat houses at the head of the detached lock at Smith's Falls and wintered in one of the locks at Smith's Falls. A new swinging engine was purchased for her from Messrs. Beatty & Company, of Welland; and a new coal scow was built for her this winter at Ottawa. The tug *Loretta* was employed last season towing scows and delivering timber, stone, paint, oil, &c., along the canal; and also on inspection work.

She has been supplied with a Nash Century steam steering engine, which is not

yet fitted up, although it is on board.

The following is a statement of the highest and lowest water on the lower mitre sills of the lower locks at Ottawa and Kingston Mills lock stations respectively, from April 1, 1909, to March 31, 1910:—

0	T .	34 T	-
OTTAWA,	LOCK	10.	1.

KINGSTON MILLS, LOCK NO. 47

Highest.	Highest. Lowest.			Highest.	Lowest.			
Ft.	In.	Ft.	1n.	Ft.	. In.		Ft.	In.
Apr. 30 18						Apr. 1		2
May 28-29 26		May 1 18		May 31		May 11-18		8
June 1 26		June 30 15		June 1.5		June 29-30		9
July 1 15		July 23 11		July 1-2 8		July 26-29		6
Aug. 1		Aug. 30-31 10				Aug. 22-31	8	4
Sept. 21-23 10		Sept. 3-6 9	9	Sept. 1 8		Sept. 23-30		8
Oct. 7-8 10		Oct. 18 9		Oct. 11-12 7		Oct. 28-31		4
Nov. 25-27 9		Nov. 7-8 9		Nov. 1-14 7		Nov. 15-30		3
Dec. 15 10		Dec. 9-13 9		Dec. 1-3 7		Dec. 24-31		11
Jan. 24-26 9		Jan. 20 8		Jan. 1-11		Jan. 28-31		- 8
Feb. 1 9		Feb. 27-28 8		Feb. 20-28 6		Feb. 7-10	6	6
Mar. 31 12	9	Mar. 1-3 8	2	Mar. 30-31 8	3 0	Mar 1	6	8

I have the honour to be, sir,

Your obedient servant.

A. T. PHILLIPS, M. Can. Soc. C.E.,

Superintending Engineer.

W. A. Bowden, Esq., C.E., Acting Chief Engineer Canals, Ottawa, Ont.

# TRENT CANAL.

# SUPERINTENDENT'S OFFICE.

Peterborough, May 26, 1910.

SIR,—I have the honour to submit herewith my annual report of the maintenance and operation of the Trent canal for the fiscal year, from April 1, 1909, to March 31, 1910.

The extent of the canal completed is the same as last year, viz., 160 miles.

Navigation opened and closed on the different stretches, as follows:-

Division extending from Lake Simcoe to Fencion Falls, opened May 1, closed November 1.

Division extending from Fenelon Falls to Lakefield, opened April 21, closed November 20.

Division extending from Lakefield to Peterborough, opened May 10, closed November 15.

Division extending from Peterborough to Healey's Falls, opened April 17, closed November 27.

The following work was carried out during the year:-

#### HASTINGS.

The highway bridge was replanked.

# RICE LAKE.

A new pier was built for the lighthouse at the mouth of the Otonabee river. The wharf at Hall's Landing was repaired.

# OTONABEE RIVER.

Considerable dredging was done at Yankee Bonnet. There is now a splendid channel with nine feet of water at this point, which heretofore was the most dangerous place between Peterborough and Rice lake.

### LOCK NO. 7, (PETERBOROUGH),

The lock and bridge were repainted. A small house was erected for the bridge-tender.

# PETERBOROUGH HYDRAULIC LIFT LOCK.

The lift lock was repainted.

#### PETERBOROUGH TO LAKEFIELD.

The canal from the Peterborough lift lock to the golf grounds, a distance of one and one-half miles, was rip-rapped on both sides. From Nassau to Lakefield, a distance of about six miles, the east bank of the canal was rip-rapped. About three miles of fencing was built on this section. The lockhouses were repainted and considerable dredging and drilling were done at the entrance to the lock at Lakefield. A new slide and pier were built at No. 5 dam.

#### LAKEFIELD.

A shelter 20 feet x 30 feet, for the accommodation of the public was built at the Lakefield dock. The lockmaster's house was repaired and repainted.

# LAKEFIELD TO YOUNG'S POINT.

The booms separating the steamboat channel from the lumbermen's channel, between these two points, a distance of six miles, were repaired and new chains placed on the booms.

#### YOUNG'S POINT.

The office was rebuilt and painted. New arms were placed on the loekgates, and the grounds were levelled off.

#### STONY LAKE.

A number of private wharfs, that became submerged, by reason of the action of the government in raising the water level in Stony lake for navigation purposes, were raised proportionately. The steamboat channels in the lake were buoyed out.

#### BURLEIGH FALLS.

The bridge over Perry's creek was rebuilt, as well as the approaches thereto.

#### LOVESICK.

The lockmaster's house was rebuilt. The lockgates from the water up were rebuilt.

# BUCKHORN.

The new concrete dam was taken over from the contractors. The government property was repainted.

# BOBCAYGEON.

A new house for the lockmaster was built at Bobeaygeon, and certain miuor repairs were doue to the dam.

# CHEMONG LAKE.

The booms were repaired. An addition to the swing bridge pier was built.

# SCUGOG RIVER.

The Scugog river from Sturgeon lake to Lindsay has been kept in good condition for navigation purposes. All the lighthouses were painted and put in good order, a number of new buoys were placed in the river, and the sunken logs were removed from the steamboat channel.

#### LINDSAY.

The rest pier at the south Lindsay street bridge was repaired and the bridge was replanked.

# FENELON FALLS.

A great deal of work was earried on at Fenelon Falls during the past year. A new concrete walk was put in at the lock, some sodding was done, and a water works

system for watering the grass was installed. A concrete walk was laid in front of the lockmaster's house, and the grounds levelled up. The work of deepening the channel from Cameron lake to the lock was continued, and a turning basin was completed east of the railway bridge. This is 200 feet long by 175 feet wide. From the Grand Trunk railway bridge to Cameron lake, a distance of about 800 feet, there is a splendid channel. This is fifty feet wide at the railway bridge and about two hundred feet at the entrance to the lake, and has a depth of nine feet. The average depth of the material dredged was about, five feot. The material was used to make a breakwater on the north side, from the railway bridge to the lake, and on the south side, from a point about 350 feet below, to the railway bridge and the end of the west entrance.

A storehouse and coal shed were built at Fenelon Falls.

The abutment pier at the south end of the dam from the water's edge was re-built. A new platform was built over the power canal or headgates to the Lindsay Light, Heat and Power Company's plant. A new set of stop logs was supplied here, and a new set of winches was placed in position.

# BELOW FENELON FALLS.

In the river below Fenelon Falls, a pier 16 feet x 24 feet was re-built from the water's edge, four courses of timber, and filled with stone. This pier is also used for booming logs.

#### ROSEDALE.

Some minor repairs were done to the old lock. The bridge was re-planked.

#### COBOCONK.

The landing pier was repaired and filled in to the shore with stone.

### BEAVERTON.

A lighthouse was erected at the entrance of the Beaverton harbour, and the channel to the entrance of the harbour was buoyed out.

# LAKE SIMCOE.

The entrance to the canal was buoyed out and some minor repairs were done to the lighthouse.

# LAKE SIMCOE TO LOCK NO. 4.

All flood wood and other debris was removed from the channel, some fencing was done on the north side near the Grand Trunk railway track, the high level bridge across the canal on the Grand Trunk railway was painted, the west gate at Lock 4 was repaired, and the roadway at Lock 5 was repaired. A new well was sunk at Lock 5 and a small piece of land sixteen and a half feet in width across Lot 10, immediately south of the Trent canal property was acquired by the department, in order to have sufficient land to construct a drain.

#### FROM LOCK 4 TO BOUNDARY ROAD BRIDGE.

The coping and rip-rapping on the south side of the canal near Lock 3 was repaired. The lockmaster's house at Lock 3 was painted. Four hundred and fifty feet of tile drain was dug up and made deeper, and the tile replaced, and one hundred feet of open drain made for an outlet westward near Dam 3. The iron bridge across the canal on the Portage Road near 'Keans' was replanked, and a wash-out at the end of the bridge on Trespass road was repaired. The channel immediately west of Lock 2 was

deepened by excavating the bottom of the canal for a distance of sixty feet. About three hundred and sixty-five feet of rip-rapping was done on the north side of the canal near Dam 3, about four hundred and eighty feet near Dam 2, sixty feet at a point near Dam 3 and one hundred and thirty feet on the south side of the canal opposite the 'Kean' property. 1,670 feet of rip-rapping was done on the south side of the canal, and 500 feet on the north side of the canal, from Lock 2 to Lock 1. The gates at Lock 2 were repaired and a well sunk at this point.

#### BOUNDARY ROAD BRIDGE TO KIRKFIELD HYDRAULIC LIFT LOCK.

A great quantity of flood wood was taken out of the canal at this point. This flood wood comes down from the flooded reaches of the canal, and if not removed, would be a serious impediment to navigation. A washout near 'Bishop's' property at Bolsover was repaired, and a quantity of stone place in same. A small wash-out, caused by the high water last spring, on the road north of the high level bridge on the Fourth Concession was repaired, and 400 feet of rip-rapping was done along this stretch.

#### KIRKFIELD HYDRAULIC LIFT LOCK.

Extensive improvements have been carried out at the Kirkfield hydraulic lift lock during the past year. New fences have been erected, a great deal of painting has been done, and a general plan of beautifying the grounds around the lift lock and lock-masters' houses have been adopted.

#### KIRKFIELD HYDRAULIC LIFT LOCK TO BALSAM LAKE.

One hundred and ninety-two rods of wire fencing was erected from the town line to the Grand Trunk railway, west of the canal, and three hundred and two rods of wire fencing was placed from the Grand Trunk tracks to the Portage road on Lot 49 west of the canal.

#### RESERVOIR WATERS.

There is in connection with the Trent canal, what is known as 'reservoir waters,' which consist of numerous rivers and streams, not on the route of, but tributary to the canal. Dams have been built at the outlet of many of the lakes on these streams, and the water is conserved until such times in the dry summer and fall season, as it may be required for navigation and power purposes. Considerable work was done on these waters during the past year, as the following will show:—

#### GULL RIVER.

Norland.—The dam at this point was repaired.

Elliott's Falls.—A new maple floor was placed in the slide at this dam, new stoplog posts were provided and the dam put into first-class condition.

Moore's Falls.—New rollers were put in, and the dam generally repaired.

Horseshoe Dam.—A new concrete dam was built here. This dam will regulate the flow of the water in the Gull river. The present dam replaces an old wooden structure that had rotted away. The new dam is 16 feet high from the sill, and holds about 10 feet of water on Horseshoe lake, and backs the water up into Mountain lake. The dam has four 20 foot weirs, or sluices, and the piers are six feet wide. The abutment on the east side is 25 feet long at base. On the west side the abutment runs up stream for about 40 feet, so as to form a rest for a boom when running logs to the dam.

Hall's Lake.—The dam between Hall's lake and Bushkong lake was repaired.

Hawk Lake.—The old dam at Hawk lake was repaired by placing in new stoplog posts and a new set of stop-logs. A new platform was also placed on the dam. This is a depot dam, there being a camp here for the caretaker of the Gull river works. This camp was repaired this year.

Redstone Lake.—The pile dam was repaired, but this dam will have to be rebuilt shortly.

Keneese Lake.—The dam was repaired and a stopping place was built to replace the one destroyed by fire in September, 1908.

Eagle Lake.—The dam was repaired, and installed new apparatus for handling

Oblong lake.—This dam was repaired and new rollers for handling stop-logs were installed.

Big Bob Dam, (Tp. of Anson).—This dam was repaired and new rollers installed.

### MISSISSAGUA RIVER.

Scott's Dam.—The slide was repaired, some work was done on the platform, and new rollers were installed.

Gull Lake.—A new floor was put on the dam, and some new stop-logs provided. A set of winehes was installed.

Bottle Lake Dam.—Some new stop-logs were provided, and the dam was repaired.

### SQUAW RIVER.

Dams Nos. 1 and 2 south of the Bobcaygeon road were repaired. Maple floors were placed in the timber slides, new stop-logs were put in and new platform placed on the dam.

#### BURNT RIVER.

Cushog Lake, (Tp. of Snowden).—A new concrete dam was built here. The dam holds five feet of water on Cushog, Sawers, and Head lake, a distance of 12 miles.

The plant was kept in first-class condition. The hull of the old dredge Trent was converted into a cookery house and blacksmith shop. Scows Nos. 2, 3 and 5 were repaired, and the tug J. B. McColl was rebuilt. The tug was formerly known as the Empire.

During the year we lost by death George Silverthorne, bridge-tender, Bolsover, and David Galloway, caretaker of the dam at Norland, on the Gull river.

No serious accidents occurred throughout the year and the traffic was the largest in the history of the canal.

The water was kept at a steady and uniform height throughout the entire year, and there were no complaints from navigation interests, the lumbermen or power companies.

I am, sir,

Your obedient servant,

J. H. McClellan,

Superintendent.

W. A. BOWDEN, Esq., C.E.,

Chief Engineer, Department of Railways and Canals,

Ottawa, Ont.

# TRENT CANAL.

# SUPERINTENDING ENGINEER'S OFFICE.

Peterborough, May 23, 1910.

W. A. BOWDEN, Esq.,
Chief Engineer,
Department Railways and Canals,
Ottawa, Ont.

DEAR SIR,—I have the honour to submit my annual report for the fiscal year ended March 31, 1910, covering the work of construction chargeable to 'Capital,' Trent canal.

#### ONTARIO-RICE LAKE DIVISION.

This division embraces the fifty-six and a half miles of all river ronte between Trenton on Lake Ontario and Rice lake, which will comprise when completed nine and a half miles of canal, thirteen miles of submarine channel and thirty-four miles of deep river whose average width will be about 500 feet. The rise between extreme low water level of Lake Ontario and normal navigation level of Rice lake is 369 feet, which rise will be overcome by 18 locks ranging from 9 to 27 feet in height. Fourteen concrete dams, with stop-log slnices, will be required for the regulation of the river, and at them 75,000 h.p. gross may reasonably be developed at the low water stage of the river, but this quantity may be increased somewhat by a larger expenditure in tail race excavation. The normal navigation level of the natural reaches of the river and Rice lake will be that of ordinary summer level, so that practically no damage will be done by flooding the land along the river and lake shores. In the rapids the dams will hold the river at as high a level as practical, which, in the majority of cases, will be lower than the top of the river banks. The canals and channels with sides showing above water will have a minimum bottom width of 80 feet except in two cases of short canals above locks where the bottom width will be only 50 feet, and the submerged channels will have a minimum bottom width of 100 feet, which will be marked at frequent intervals by small piers. The canals and submarine channels will have a depth of 9 feet.

There will be sixteen bridges, ten of which will be for highways and six for railways. They will be all swing or bascule spans, except that for the main line of the Grand Trunk railway at Trenton Junction, which will be a high level fixed bridge, under which there will be a clear head room of 27 feet at a stage of high water in Lake Ontario.

The locks will be of concrete and will have 8 feet 4 inches of water on the sills, with chambers 33 feet wide by 175 feet long between hollow quoins. They will accommodate barges of 1,000 tons, whose size will be about 150 feet long by 30 feet beam, and drawing 8 feet of water. Entrance piers of not less than 150 feet in length will be provided above and below each lock. The locks will be filled through culverts 4 feet wide by 5 feet high in the side walls, which will be equipped with 'wagon' valves for controlling the water. The lock gates will be of the solid timber type and the npper gates in all cases will be set on the top of lift walls. They will be operated by struts or bars working in hand power winches set in recesses, which will be formed in the lock walls.

The toal cost of the improvement of this part of the 'Trent Navigation' will amount to about \$6,750,000, the first vote for which was made by parliament during the session of 1907. The project involves the removal of about one and a half million cubic yards of earth, one and a quarter million cubic yards of loose and solid rock, and the building of about four hundred thousand cubic yards of concrete.

For construction purposes the division has been divided into seven sections, five of which are under contract, and tenders for the other two have been received. Of the total estimated cost of the division, about 75 per cent of the amount will be covered by the main contracts for the seven sections on which were expended for work done and materials delivered up to March 31, 1910, \$1,285,092.40. Locks Nos. 2, 3, 6, 7 and 14 and dams Nos. 2, 3, 6, 7 11 and 12 are built.

The following tables give the location of the locks and dams with their respective lifts and hydraulic power:—

#### LOCKS.

No. of	No. of	Miles	Locality of	Lift of	WATER	LEVELS.	
Section.	Lock.	from Trenton	Lock.	Lock.	Lower Reach.	Upper Reach.	Remarks.
1	1	1.8	Trenton Junct'n.	20 ft.	241:0	261.0	Elev. 241 0 is approx. extreme low water level of Lake Ontario, fall of 1895.
1	$\frac{2}{3}$	2·4 3·9	Glen Miller	20 n 27 n	261:0 281:0	281 ° 0 308 ° 0	01 10.00.
1 2 2 2 3	4	5.2		18 "	308.0	326.0	
2	5	6.4		18 11	326.0	344.0	
2 2	6 7	7:3	Frankford	9 11	344 · 0	369·0	
4	8	25.2	Percy Landing.	20 11	369.0	389 0	
4	9	26 4		16 11	389.0	405 0	
4	10	27.9		24 11	405.0	429:0	NT 44 142 4 44
4 4	$\frac{11}{12}$	29.6 29.6	Ranney Falls	24 11	429 · 0 453 · 0	453 0 477 0	Nos. 11 and 12 are in flight.
5	13	32.1	Campbellford	23 11	477.0	200.0	
5 5	14	33.6	Middle Falls	25 11	500 0	525 0	
6	15	36.1	Crow Bay	22 11	525.0	547:0	N 10 115 1 011
6	16 17	36·5 36·5	Heeley Falls	27 11	547 0 574 0	574 · 0 601 · 0	Nos. 16 and 17 are in flight.
6 7	18	51.0	Hastings	9 "	601 0	610.0	Elev. 610.0 is normal level of Rice Lake.

Total rise, 369 feet.

# DAMS.

		_						
	n bridge.		WA'		WAT	ER Po	WER.	
No. of section.	Miles from Trenton bridge	Locality of dam.	Upper.	Lower.	Available head in feet.	Low water flow cubic feet per second.	Gross horse-	Remarks.
1 1	1.7	Trenton Junet'n.	261.0	243 5	17:5	2,000	3,977	At extreme low water level, elevation 241.0; of Lake Ontario a head of 20.0 feet can be obtained.
1 2 3	2:4 4:6	Glen Miller	281 · 0 308 · 0		20·0 27·0		4,545 6,137	
2 4	5 2		326:0	308:0	18:0	2,000	4,090	
$\begin{array}{c cccc} 2 & 4 \\ 2 & 5 \\ 2 & 6 \end{array}$	6.6		344.0	326:0	18.0			
2 6	8.1	Frankford	360.0	344.0	16.0	2,000	3,636	The water-power at this point is owned by the Crent River Paper Co., who have developed part of it. During high water in the spring the head of 16 feet will be reduced some.
3 7	14:2	Glen Ross	369.0	364:0	5.0	2,000	1,136	By a large expenditure of money a head of 9 feet could be obtained here. During high water the head of 5 feet at the dam may be reduced some.
4 8'	26:4	Foot of Myers Island.	405.0	375.0	30.0	2,000	6,817	Thirty feet head requires about 25,000 cu. yds. of rock excavation for tailrace. Twenty-five feet head available with no tailrace excavation. Thirty-six feet head can be obtained at great cost for tailrace excavation in rock.
4 9	28.7	Head of Myers Island.	429.0	405 0	24	2,000	5,454	Considerable tailrace excavation required to get 24 feet head. About 21 feet head available with no tailrace excavation.
4 10	30.6	Ranney Falls	477:0	429 0	48	2,000	10,908	The power on the river at this point is owned and controlled by various parties whose united consent would have to be obtained in order to develop the 48 feet head in the vicinity of lock No. 12. Otherwise only 15.5 feet head can be obtained at dam No. 10 The balance, 32.5 feet, would have to be developed by a second dam built by private enterprise.
5 11,	32:5	Stephens Rapids, Campbellford.	500.0	477:0	23	2,000	5,227	Developed by the Seymour Power and Electric Co
5 12	33.6	Middle Falls	525.0	500.0	25	2,000	5,681	Developed by the Municipality of Camp-
6 13	36.8	Heeley Falls	601:0	535 0	66	1,500	11,250	bellford.  A head of 76 feet could be obtained at considerable expense for tailrace excava-
7 14	51.0	Hastings	610.0	601:0	9	1,500	1,534	tion. In high water the nine feet head will be reduced by backwater.

Total horse-power, 74,482.

Section No. 1.—This section extends from Trenton to Glen Miller, a distance of about 44 miles, on which length of river there are three locks and dams.

A contract for the work was entered into with Messrs. Larkin & Sangster on March 10, 1908, and the total value of work done and materials delivered up to March 31, 1910, amounted to \$567,325.39 or about 60 per cent of the value of the contract. The principal items of work done are: 205,527 cubic yards earth, 156,270 cubic yards solid rock, and 42,425 cubic yards concrete. Locks and dams Nos. 2 and 3 arc finished. The short cauals leading into and out of these locks are partly excavated and their entrance piers are in course of construction. The pit for Lock No. 1 is being taken out, and the excavation for the caual below the lock is nearly finished.

One of the fixed spans at the east end of the Glen Miller highway bridge has been taken out, and a swing bridge built in place of it, which was opened for traffic at the

end of February, 1909.

The Contractors have constantly maintained a good force and equipment on the works, which have been carried on by them in an energetic and workmanlike manner, and the close of this season will probably see the works of Section No. 1 completely finished at and north of the Grand Trunk Railway, Trenton Junction.

Grand Trunk Railway Bridge, Trenton Junction.—An agreement was entered into on June 9, 1909, with the Grand Trunk railway system for the construction of a bridge to carry the tracks of their main line over the canal at Trenton Junction.

Lock No. 1 is located immediately north of the railway embankment, and its lower walls are extended to the south side of the railway, which design permits of a high level fixed bridge being used for carrying the railway over the canal. The bridge is designed for three tracks, and also provides for raising them in the future at least seven fect. For the present the clear head room under the bridge at a stage of high water in Lake Ontario will be 27 feet, but when it is raised, the clearance may be 34 feet.

Owing to lack of funds, no work was done on the bridge during the fiscal year 1909-10, but construction was begun by the railway company last month, as the bridge must be built and finished before Messrs. Larkin and Sangster can complete the lower entrance piers and channel of lock No. 1.

Section No. 2.—This section extends from Glen Miller to Frankford, a distance of about 43 miles, on which stretch of river there are three locks and dams.

A contract for the work was entered into with Messrs. Dennon and Rogers on May 30, 1908, and the total value of work done and materials delivered up to March 51, 1910, amounted to \$159,952.39, or about 26 per cent of the value of the contract. The principal items of work done are: 38,709 cubic yards earth, 29,387 cubic yards solid rock, and 18,363 cubic yards concrete. Dam No. 6 is finished except the bridge across it and lock No. 6 is also finished except its lower entrance piers. Some excavation and part of the core walls for the short canal connecting lock and dam No. 6 have been done. The pivot piers and abutments or the swing bridge across the canal on Bridge street, Frankford, have been built, and the Hamilton Bridge Co., are now creeting the superstructure. A little excavation has been done at the sites of Locks Nos. 4 and 5, but no work has been done at dams Nos. 4 and 5.

The work on this section is proceeding very slowly and if the structures on it are to be finished concurrently with those on the other sections of the division, the contractors will have to provide more plant and maintain constantly a much larger force of men and teams than they have at present.

Section No. 3.—This section extends from Frankford to a point three miles west of Glen Ross, a distance of 7½ miles. At Glen Ross there are a lock and dam, and two bridges.

Λ contract for the work was entered into with the Canadian General Development Co., I.td., on April 24, 1908, and the total value of work done and materials

delivered up to March 31, 1910, amounted to \$181,042.32, or about 63 per cent of the value of the contract. The principal items of work done are:—10,948 eubie yards earth, 74,669 cubie yards solid rock, and 10,226 eubie yards concrete. Lock and Dam No. 7 at Glen Ross, and the short canal above and below the lock are finished. The bridges across the canal above the lock for the Frankford highway and the Central Ontario railway are also finished and in use. The Central Ontario railway bridge was placed in commission on April 29, 1909.

The whole of the work on this section is finished except the dredging in the river, which has not been touched, as the contractors have no dredging fleet on the ground,

and may wait until they can bring one in from Lake Ontario.

Section No. 4.—This section extends from Adams landing, a point three miles west of Glen Ross to Campbellford, a distance of about 14 miles. There are between Bradley bay and Campbellford five locks, three dams and four bridges; and 1½ miles of concrete retaining wall for enclosing the river through the town of Campbellford, together with a large quantity of earth and rock excavation. During the past two years the route of the canal through Campbellford was very carefully studied and the plans and specifications for letting the work were finally completed last winter and the work advertised, tenders for which were received on the 5th instant.

Section No. 5.—This section extends from Campbellford to Crow bay, a distance of 3 miles. On the section are two locks and dams.

A contract for the work was entered into with Messrs. Brown & Aylmer on September 28, 1907, and the total value of work done and materials delivered up to March 31, 1910, amounted to \$342,722.90, or about 62 per cent of the value of the contract. The principal items of work done are, 65,380 cubic yards earth, 39,248 cubic yards solid rock, and 31,552 cubic yards concrete. Dam No. 11 (Stephen's rapids), dam No. 12 and lock No. 14 at Middle Falls are entirely finished. The only structure on this section yet to build is lock No. 13 at Stephen's rapids, which will be built this season. The channel leading from Crow Bay to lock No. 14 will be finished early this summer, when the contractors intend moving their Lobnitz rock breaker and diedge down on to the reach between locks 13 and 14. The dredging fleet was built on Crow bay during the winter of 1907-8, and has since been employed on the bay.

At Middle Falls the municipality of Campbellford have built a hydro-electric plant between the river shore and lock 14, which they are operating under the terms of lease No. 18115. A development of 5,700 h.p. gross under a head of 25 feet may be chtained at this point during the low water stage of the river. The works comprise a forebay about 600 fect long, 11 feet deep and 50 fect wide cut out of solid rock; and a small power house built of rock faced ashlar, with a concrete pressure chamber in front of it divided into three separate compartments. No work was required to be done for a tail race. There are installed at present one 1,470 h.p. double runner turbine direct connected on a horizontal shaft to a 750 k.w. alternating current generator. Also one 80 h.p. turbine connected to a 55 k.w. direct current exciter. There ere also switch boards, line instruments, lightning arresters, a hand power travelling crane, and a type N Lombard governor which maintains the speed within 1 per cent normal. The three phase, 60 cycle current is generated and transmitted at 2,400 volts. The station is connected with the town by 2½ miles of cedar pole transmission line. the conductors being plain bare copper wire No. 000. Within the corporation limits there are 15 miles of distribution line. Their lighting load at present is about 260 k.w. and they have to date sold to different parties in the town 140 h.p. The corporation have recently entered into an agreement with the Seymour Power Company by which it agrees to supply the company with 1,000 k.w. for a period of five years, and in pursuance of the above are proceeding to install a 1,950 h.p. turbine and a 1,000 k.w. generator. The hydraulic machinery was supplied by S. Morgan Smith, and the electric apparatus by the Allis-Chalmers-Bullock, Ltd., except the 1,000 k.w. generator

which will be supplied by the Swedish General Electric Co. The corporation has at present a surplus power which it hopes will soon be taken up, when this is done, they intend to proceed with the full development of the minimum flow of the river at their power station. The plant was placed in commission on September 18, 1909.

At dam No. 11 (Stephen's rapids) the Seymour Power and Electric Company have built a hydro-electric plant on the east side of the river, about 1,000 feet below the dam. This plant is operated under the terms of lease No. 17829 granted to Mr. J. G. G. Kerry, and will develop under a 23 feet head at the low water stage of the river about 5,300 h.p. gross. The works consist of a forebay about 150 feet wide by 1,060 fect long contained between concrete walls, a concrete power house and a short tailrace. The superstructure of the building, which will be fully finished this summer, is of ashlar faced block. The equipment will consist of five double runner vertical shaft turbines of 870 h.p. each, installed in separate wheel pits built of reinforced concrete. Their operation is controlled by governors of the Monerett type, which are designed to automatically, and completely close the turbine gates in four seconds of time in ease any accident occurs to the machinery. The alternating current generators are of the vertical shaft umbrella type with a rated capacity of 750 k.v.a. The house is equipped with both turbine driven and motor driven exciter set for maintaining the fields of the generators. It is also provided with an electric overhead erane furnished by the Advance Machine Works, Walkerville, Ont. There is a full switch board of modern type, oil switches, choke coils, lightning arresters, &c. The three phase 60 cycle current is generated at 2,400 volts and is stepped up to a transmission voltage of 44,000 volts. The hydraulie machinery was supplied by Messrs. Wm. Kennedy & Sons, Owen Sound, Ont., and the electric equipment by the Canadian Electric Company, Peterborough, Ont. The company have built an extensive system of eedar pole transmission line; the conductors used are aluminum cable of 7 strand No. 2, B.W.G., which is now so far advanced that power can be delivered to Marmora, Deloro, Madoc, Tweed, Sulphide, Stirling, Belleville and adjoining places. The completion of the plant was far enough advanced last fall for the company to begin the delivery of power, which they began delivering to Deloro mines on December 5, 1909. Since that date the plant has been in constant operation.

Section No. 6.—This section extends from the lower end of Crow bay to 1,000 feet west of Heeley Falls bridge, a distance of about three miles. There are three locks, one dam and one bridge on the section, together with a large quantity of carth and rock excavation. The short canal at this point is located on the west side of the river and is designed to overcome the 76 feet rise between Crow bay and the 14 miles of river reach between Heeley Falls and Hastings. The plans and specification for this section were finished last year and the work advertised this spring, tenders for which were received on April 26, 1910, and the contract for the construction of the section has been awarded to Messrs. Haney, Quinlan and Robertson.

Section No. 7.—This section extends from Heeley Falls to Rice lake, a distance of about 194 miles. The principal works consist of a large quantity of earth and rock dredging in the river, a new lock and dam at Hastings, a new swing bridge at Trent bridge and new guide piers at the Grand Trunk railway bridge, Hastings.

A contract for the work was entered into with the Randolph Macdonald Company, Ltd., on January 4, 1909, but owing to the lack of funds only \$34,049.40 worth of work, chiefly dredging, and materials delivered were done by March 31, 1910. The company last year built a dredge, tug, scows and a drill boat. Last fall they built a coffer-dam around the pit for the new lock, and are now preparing to unwater it and proceed with the excavation of the foundation and construction of the lock, which will be finished this season. The new lock is located far enough below the highway swing bridge so as to permit the use of extension walls for the bridge to swing over instead of over the chamber as was the case with the old

lock, which was put out of commission on April 15, 1910, when its gates were unstepped and the dam surrounding the pit for the new one was closed.

### BURLEIGH FALLS DAM.

During the fall of 1908 a survey of Lovesick lake was made with the object of ascertaining whether the level of the lake, which is about four feet lower than Deer bay, could not be raised up to the level of the latter and thereby drown out the lock and dams at Lovesick. The survey clearly demonstrated that this could be very readily and economically done, and the plans for the new concrete dam at Burleigh Falls to replace the present dilapidated wooden structure, originally built in 1888, were prepared accordingly. This scheme involves at a future date the construction of a single lock at Burleigh Falls of about 27 feet lift to replace the present flight lock at this point and the four feet lift at Lovesick.

A contract for the new dam, which will be located about 50 feet below the present one, was entered into with Messrs. Bishop & Buchannan on December 14, 1909. The work done and materials delivered up to March 31, 1910, amounted to \$2,194.76. The contractors have delivered some gravel, timber, &c., and will proceed with the execution of the work this season.

# LINDSAY SECTION.

During the summer of 1908 a survey of the Scugog river at Lindsay was made, preliminary to the preparation of plans and specifications for a new lock, and dam at Lindsay, and a new bridge at Wellington street. A contract for the work was entered into with Messrs. John Ritchie & Co., on January 20, 1909.

The total value of work done and materials delivered up to March 31, 1910, was \$31,700.13. The work embraced in this contract will be completed early this summer. The lock is finished, and the gates built at Rosedale by this office last year will be stepped this month and the lock put in commission. The dam was finished last fall and its sluices materially assisted in maintaining a more uniform level of the river this spring than ever obtained before, and in the future no further trouble should be experienced by excessive and long continued high water on the river above Lindsay as has obtained every spring in past years.

The present lock and dam are built on the site of the original structures whose construction was begun by the province of Upper Canada in 1837 and finished in the fall of 1843. The 1843 lock would appear to have remained in commission up to 1859, when it was converted into a timber slide and remained as such until 1870, when it was rebuilt by the province of Ontario, which entered into a contract with Thomas Walters on February 3, 1870, for rebuilding it in timber, when it was again placed in commission in the spring of 1871. The walls were rebuilt on the old foundations without disturbing the mitre sills, and were again renewed in 1885.

When the lock was finished in 1843, or sometime afterwards a highway bridge was built across it, which remained in existence until after 1860 when it was replaced by a bridge on the line of Lindsay street below the lock.

The viginal dam was built about 246 feet long, but for some years past was only 167 feet long. In 1882 a canoe slide and platform was built over the end of it next the lock, which accounts in part for the shorter length of the dam in recent years. The difference in height between the sills of the lock and the crest of the dam as finished in 1843 would appear to have been 12 feet, which agrees exactly with the actual difference in height between the sills of the old lock and the highest point of the crest of the cld dam as determined by us before they were removed last year. Considering the top of the stop-logs of the sluices of the new dam as part of the crest, the total length of crest of the new structure is 167 feet, or the same length as the old one, and its elevation is 46.6, or the same level as the highest point of the old crest. The new dam has

two stop-log sluices each 15 feet long by five feet deep for the purpose of providing free discharge for spring or other floods.

	Distance from centre line of Lindsay St., bridge to upper H. (pnoins.	Length of lock be- tween H. Quoins.	Coping of lock.	Upper mitre sill.	Lower mitre sill.	Upper stop-log sill.
	Feet.	Feet.	,	Constuctio	Elevations, n datum of	new lock.
Old lock New lock	191·4 202·9	133 142	49·6 49·6	34·6 36·77	34·5 33·0	39:5 38:27

The centre line of the old and new locks is the same. Normal water level above the lock is elevation 46.6, and below it elevation 40.0.

On April 6, 1910, a contract was entered into with the Hamilton Bridge Works Company, Ltd., for the superstructure of the new Wellington street bridge, which is to be a Strauss Trunnion Bascule bridge, embracing a 73-foot deck plate girder movable span, which will be operated by electricity. The electrical equipment will be provided by the Canadian General Electric Company, the whole of which is to be finished and ready for operation by September 1, 1910.

#### ROSEDALE SECTION.

The works of this section consist of a canal across the narrow peninsula between Cameron and Balsam lakes, a lock, dam and dredging in the Gull river between its confluence with the canal and deep water in Balsam lake. The lock is the same size as those of the Ontario-Rice lake division, and the canal and river channel will be 100 feet wide on the bottom with a depth of 9 feet at normal lake levels. The distance via the new canal between the 9 feet contours in Cameron and Balsam lakes is 1.8 miles, or 1.2 miles shorter than via the Gull river and the old lock.

A contract for the construction of this section was entered into with the Randolph Macdonald, Company, Ltd., on February 24, 1908, and the total value of work done and materials delivered up to March 31, 1910, amounted to \$134,919.74. The principal items of work done are: 195,000 cubic yards earth, 4,600 cubic yards solid rock, and 7,740 cubic yards concrete. The lock and its entrance piers are finished, and also the excavation for the canal, and some dredging has been done in the Cameron lake channel and in the Gull river. The gates for the lock were built on the ground by this office last year and stepped early this month, and upon removal of the cofferdam at the head of the canal this week, the new lock will be placed in commission and the old one closed to navigation. The dam which is located 1,500 feet higher up the river than the old one will be built this summer, and it is expected that the whole of the works will be completed this season except the dredging.

The improvements now in progress will replace the old wooden lock and dam built by Mr. Wm. Whiteside who in 1869 entered into a contract with the provincial government for their construction. The lock was not finally completed and placed in commission until late in 1873. His contract also included the building of a swing bridge across the river at this point, which was replaced by the Dominion government in 1897 by a steel swing span erected on a concrete substructure. In 1897 the Dominion government also completed the excavation of a channel 90 feet wide by 7 feet

deep in the river between the old lock and Balsam lake, which channel up to then was only about 3½ feet deep.

#### HOLLAND RIVER DIVISION.

This division is divided into two sections. Section No. 1 extends from Cook's bay, Lake Simcoe, to Holland landing, on the east branch of the Holland river, a distance of  $8\frac{1}{2}$  miles. Section No. 2 extends from Holland landing to Newmarket, a distance of  $4\frac{1}{3}$  miles. The whole of section No. 1 is on the Lake Simcoe level, and the total rise between Holland Landing and Newmarket is 43 feet, which will be overcome by three locks.

Section No. 1.—A contract for the construction of this section, chiefly dredging, was entered into with the Lake Simcoe Dredging Co., on Angust 30, 1906.

The company had only dredged 12,392 cubic yards of material at the close of the season 1907 when they abandoned the work, and the department took it out of their hands in May, 1908.

A final estimate in favour of the Lake Simcoe Dredging Co. amounting to \$2,465.20 for the work done was sent into the department in October, 1908.

This section has not been re-let.

Section No. 2.—A contract for the construction of this section which consists of three locks, three dams, four highway bridges, one dock and a large quantity of earth excavation, stone protection, lining, &c., was entered into with Mr. John Riley on February 12, 1908, and assigned by him to Messrs. Russell, Dill and Lothian, on February 19, 1908, and by them to the York Construction Co., Ltd., on April 3, 1908, who are carrying on the work.

The total value of the work done and materials delivered up to March 31, 1910, amounted to \$225,062.32, or about 37 per eant of the value of the contract. principal items of work done are: 420,000 cubic yards earth, 10,050 cubic yards conerete, 13,150 lineal feet of piles driven, 4.600 cubic yards stone protection in place, and 12,740 cubic yards puddle. There are delivered on the work ready for placing 4,590 cubic yards stone protection, all the steel reinforcing required for dams, timber for stop-logs, hollow quoin casings for Locks 1 and 2, &c. Lock and Dam No. 3 located about one mile below Huron street, Newmarket, are finished, except the lower entranee piers of the lock and the foot bridge across the dam. The Newmarket dock is half built, which will be finished this season, together with lock and Dam No. 3, and the mile of canal between them. About 52 per cent of the excavation on the section has been done, and it is the contractors' intention to devote most of their energies to completing this part of the work this season, for which purpose the steam shovel has been moved down to reach 1-2; and reaches 2-3, and Newmarket will be finished by seraper teams, and the Lake Simcoe reach below Lock No. 1 will be exeavated by a cableway erected last year for this purpose. Green Lane bridge situated half a mile below Lock No. 3 is finished and in commission. No work has been done on Loeks 1 and 2 and their highway bridges, nor at the high level bridge for the Bradford road.

Queensville Road Bridge.—This bridge crosses the east branch of the Holland river, about two miles north of Bradford road, Holland landing. A contract for the substructure of the bridge was entered into with Messrs. D. Couroy & Sons on December 1, 1906, and was finally eompleted by them in June 1908. A final estimate for the work amounting to \$18,212 was sent in to the department in January, 1909.

A contract for the superstructure of the bridge was entered into with the Dominion Bridge Co., on October 12, 1906, for \$4,872, which they finally completed on August 21, 1907, and the bridge was placed in commission that fall.

Water Supply.—Last year the whole of the valley between Newmarket and Aurora was surveyed and cross-sectioned for the purpose of determining the location and size of the reservoir dams required for supplying the canal with water between Newmarket and Holland landing. Plans for this purpose are now being prepared. Last June concreto measuring weirs were built on the river south of Newmarket and also on the Bogartown branch of the river, at which tri-weekly readings and oftener during rainy weather have since been taken for the purpose of accurately and positively determining the run off of the valley. These readings will be continued until the reservoirs have been built and finished.

#### BRIDGES.

A contract was entered into with the Hamilton Bridge Works Co., Ltd., on October 10, 1908, for the manufacture and erection of six highway swing bridges and one railway swing bridge.

The highway swing bridges at Glen Millar, Glen Ross and Green Lane are finished and in commission. The swing span for the Central Ontario Railway at Glen Ross nas also been finished and placed in commission. The highway bridge at Frankford has been erected, but will not be in commission until the approaches to it are finished by the contractors for the substructure. The highway spans for Yonge street, Holland landing and second concession road, section 2, Holland river division are fabricated, and stored in the company's yards at Hamilton ready for shipping.

On April 6, 1910, a contract was entered into with the Hamilton Bridge Works Co., Ltd., for the manufacture and erection of a Strauss Trunnion Baseule highway bridge for Wellington street, Lindsay, according to the plans and specifications prepared by the Strauss Baseule and Concrete Bridge Co., Chicago. This bridge will have a 73 feet movable leaf and is to be ready for operation on September 1 next. It will in all probability be the first bridge of the kind creeted and finished in Canada.

#### WAGON VALVE FOR LOCKS.

A contract for the manufacture and erection of the wagon valves required for the filling culverts of the new locks and regulating sluices of the canal was entered into with the Dominion Bridge Co., Ltd., on October 5, 1908. Since that date the valves for Locks 7 and 14 of the Ontario-Rice Lake division and those for the Rosedale lock have been installed, and the company are at present installing those for Locks 2, 3 and 6 of the Ontario-Rice Lake division. A large part of the metal for the balance of the valves is fabricated and stored in the company's yards at Dominion, Que., ready for shipping.

The 'wagon' valve is a modified type of the 'stoney' valve. It may be described as a counterweighted iron gato mounted on two pairs of large wheels, which travel upon rails bolted to a rigid steel frame embedded in the side walls of the wells formed over the culverts in the concrete walls of the locks. The counterweights move in guides and follow the motion of the valves. The characteristics of the valve are:—that the bearing is always on the rails through the wheels; and that the vertical and upper horizontal water seals of the valve are made by adjustable bronze plates which make a planed surface contact with the faced sides of the steel cast guide rails and upper seating on valve frames respectively. The seals do not make the valve absolutely water tight. The valves are erected on the down stream side of their respective wells, and the valves with their water seals can be adjusted, or taken out for repairs and replaced, without the aid of a diver, or disturbing their operating winches at the top of the wells. The valve openings are 4 feet wide by 5 feet high and the valves are designed to work under heads varying from 4 to 40 feet.

On March 5, 1909, the Dominion Bridge Company made a series of tests to find the tractive effort required for working the valves. A set of rails were placed hori-

zontally and the tests were all made with dry bearings. With the valve alone, weighing 2,300 pounds and no external load, the total tractive effort required to move it was 65 pounds. A load of 40,000 pounds was then placed on the back of the valve and the total tractive effort required to move it was 1,500 pounds, on repeating the test on the unloaded valve at conclusion of tests the total tractive effort required was found to be reduced to 55 pounds. A dynamometer was used for measuring the pull in each case. The tractive effort required to move the valve was less than 4 per cent of the total load throughout the tests.

When the valves were installed at the Middle Falls lock, an opportunity was afforded of testing them under a head of 11 feet. Two men easily and fully opened the valve (5 feet rise) in thirty seconds, and one man in 45 to 75 seconds. The valve opens easily for the first 12 to 15 inches, when a decided increase in load occurs for a few seconds only and which rapidly eases off as the valve rises. In no case did the load tend to re-act on the horizontal levers (4 feet radius) of the winches, and the grip at the levers could be released at any time under any condition of load without the winch running back on the operator, the load being held steadily by the mechanical brake with which the winches are equipped. Whenever the operators let go the levers, the reverse action at the handles was only from 2 to 3 inches in extent at the most, when releasing the grip.

The following tests were made in the Dominion Bridge Co.'s shops at Dominion on one of the above mechanical brakes on February 5, 1909.

A lever of 96 inches effective length was attached to the brake gear wheel, and a similar lever to the brake shaft below the brake discs. Hand power was applied to the lever to raise a load carried on a platform and suspended by a rope over a pully, thence to the second lever below the brake disc. A load producing a torque of 6,970 inch pounds on the brake shaft was readily raised, and completely controlled by one man. A load producing a torque of 14,440 inch pounds on the brake shaft was readily raised, and completely controlled by two meu. A load producing a torque of 25,100 inch pounds on the brake shaft was readily raised, and completely controlled by four men. In all cases one man alone completely controlled the lowering, and the brake automatically held the load on releasing the handles, only a few inches fly back at the end of the hand lever was observed on relasing it at any time during the tests.

A provision for 9,800 pounds as a maximum load on the valve chain was the basis of strength, with a counterweight of 1,800 pounds, leaving a net load of 8,000 pounds to be dealt with by the winch. The brake shaft torque required to deal with this load, that is to say, to sustain it, was estimated at 16,000 inch pounds.

It was now decided to test the limit of usefulness of the brake and a load producing a torque of 46,600 inch pounds on the brake shaft was applied; no attempt was made to raise the load by handpower, but the lowering was readily controlled by one man exercising ordinary care. The brake began to slip with this load, which may be taken as its useful limit. No sign of weakness could be found on examining the brake, during or after the application of this load.

### LOCK GATE OPERATING MACHINES.

A contract was entered into with Mr. Herbert B. Collier on May 7, 1909, for the supply and delivery of the operating machines, anchorage fittings and pivots required for the lock gates of the new locks along the canal.

The operating machines, anchorage fittings and pivots for the Rosedale and Lindsay locks have been installed, and those for Lock No. 3, Holland river division, and for Locks 2, 3 6, 7 and 14, Ontario-Rice Lake Division, have been delivered and partly installed.

The contractor has also finished and stored ready for shipping when required, in the Wm. Hamilton Co.'s shops, Peterborough, a large part of the machines, anchorage fittings and pivots required for the other locks embraced in his contract.

#### GENERAL.

Cement.—About 81,500 barrels of Portland cement were used on the works during the year. It was supplied and delivered under contract by the Lakefield Portland Cement Company.

Lock gates.—The lock gates for the Rosedale and Lindsay locks were built by this office at Rosedale last year. Mr. Jas. A. Hadcock had immediate charge of the work and carried it out in a first class and workmanlike manner. The gates are of the solid timber type and are built of British Columbia fir, which was supplied by Messrs. Mason, Gordon & Co., Montreal, and the metal work was fabricated and delivered by the William Hamilton Co., Peteborough.

The gates for the Rosedale lock were stepped last week, and those for the Lindsay

lock are being delivered and will be stepped this week.

Lake surveys.—No charts of the chain of lakes which form part of the Trent navigation have ever been made, and with the object of making a complete and reliable set of charts of these inland waters, hydrographic surveys of the lakes were begun two cars ago, which have since been intermittently carried on. The field work for the

eys of Rice, Lovesick, Sturgeon, Cameron and Balsam lakes and the Otonabee river are practically finished and next winter the surveys of Katchewannoe, Clear, Stoney, Deer, Buckhorn and Pigeon lakes will be proceeded with. Very little office work in connection with the charts has yet been done.

In the fall of 1908 the Geodetic branch of the Public Works Department ran a line of precise levels from a Lake Ontario gauge at Brighton to Orillia, via the Grand Trunk railway to Trenton, and thence by the C. O. railway to Anson Junction, and thence via the Midland division of the Grand Trunk railway to Orillia where they connected with their Toronto-North Bay line of levels ran some years before in connection with the Georgian Bay canal survey. Since then this office has run branch lines from the above line of levels between Peterborough and Lindsay via the lakes and between Lindsay and Rosedale; in order that the hydrographic surveys of the lakes and all work thereon in future could be referred to a common datum, viz., mean sca level, New York.

I am, sir,

Your obedient servant,

ALEX. J. GRANT,
Superintending Engineer.

# SAULT STE. MARIE CANAL.

# ENGINEER'S OFFICE,

SAULT STE. MARIE, ONT., April 1, 1910.

SIR,—I have the houser to submit my annual report on the improvements in progress to the uper entrance of the Sault Ste. Marie canal for the fiscal year ending March 31, 1910.

#### DREDGING UPPER ENTRANCE.

The contract entered into with Mr. C. S. Boone for the deepening and widening through the Vidal shoals situated about two miles above the lock, was brought to a satisfactory completion November 12, 1909, which provided for a chanelway of 500 feet in width and a depth of 21 feet, 5 inches at low water stage.

A contract was entered into with Mr. J. J. Collins for the widening of the channelway on the north side from the westerly end of the north pier (under construction) and on line with same extending westerly to intersect with a production of the northerly limit of the channel as defined passing through the Vidal shoals. The depth to be secured to be on a plane of 21 feet 5 inches below the lowest recorded water line. Work was started on this contract October 27, 1909, but owing to the lateness in the season very little progress was made.

### RANGE BEACON-UPPER ENTRANCE,

During the coming season, it is proposed to remove the Beacon range and a small shoal in the vicinity of same. The Beacon stands within the limits of the improved channel and is much in the way of vessels turning between the upper channel and canal lock reach. The Department of Marine will put in place a permanent range for the upper channel outside the channel limits.

# STUDIES FOR A POSSIBLE ADDITIONAL LOCK AT THE SOO.

During the latter part of the year preliminary surveys were started for a proposed new ship canal. Three lines were laid down over which levels have been taken, one to the north of the present canal and two to the south. From the information obtained the line farthest sonth is looked upon the most favonrably. The surveys so far have been of a very preliminary nature and much data must be obtained before the most favonrable location for a new canal can be determined. This coming season it is proposed to sound the possible approaches and gather such data as will be necessary to form an approximate estimate of the cost of a lock that will meet the requirements of the estimated increase and development of lake commerce.

A study of the requirements of so important an undertaking must receive the most careful attention of those entrusted with its development, and should not be hampered by time which is so often the case in large public works which are started sometimes before the designs have been worked out.

I desire to draw attention to a few facts that have come before my attention and which lead me to believe that the time is now opportune for a serions consideration of the requirement of a new lock and caual in the near future on the Canadian side of the St. Mary's Falls.

At the present time the United States government have undertaken the construction of a new lock to be known as the 'Davis lock,' and have under consideration

another lock of like dimensions to the Davis lock which is to be 1,350 feet long by 80 feet wide in the chamber, with a depth of 25 feet at low water stage on the mitre sill. Work has already been started and it is contemplated the new Davis lock will be put in commission in the year 1914.

The immediate need of this new undertaking has been forcibly demonstrated during the past season of navigation. Serious accidents have happened to both the Canadian and Poe locks which might be termed unavoidable, with the result that for days at a time, while repairs were being hurried forward to put the lock in commission, expensive delays were necessitated to lake traffic. On one occasion the number of vessels awaiting lockage and at anchor reached the enormous number of eighty, representing about 450,00 tons of freight delayed in transmission. The delay to some of the boats on this occasion reached three days. Outside the feature of accidents, it is frequently noted that a slight eongestion in traffic will mean the loss of as much as six hours and more which should the same conditions occur frequently would amount to the value of an extra trip or more to the vessels so detained.

The channels between the lakes have been deepened to provide a greater draft than the present locks at Sault Ste. Marie will allow, and with the opening of the new Davis lock an increase of two feet in draft will be provided with a further allowance of four feet to make easier the passage of vessels in and out of the lock.

The depth of the channels connecting the lakes has been increased since the opening of the Canadian and Poe locks  $4\frac{1}{2}$  feet, and in the lower approach to the Canadian lock the channel was deepened 3 feet in the same period. From the above it may be deducted that there is  $1\frac{1}{2}$  fect more water provided than in the Canadian canal approach at the lower entrance. Which means that there are two feet nine inches more than there is on the floor of the lock chamber of the Canadian lock.

This additional depth of  $4\frac{1}{2}$  feet provided in the channels connecting the lakes secures a depth of 21 feet when Lake Iluron stands at low water stage (elevation, 579.00) which means a draft for loading of twenty feet at extreme low stage which will increase to 22 feet during the season of navigation.

It is not contemplated that a greater depth than 21 feet will be provided in the channels between the lakes, although the new Davis lock when completed will pass through a draft of 24 feet, but to insure that draft in the channels would mean a tremendous amount of work at a very great outlay.

With the depth now available careful watch is kept of the stage of water and advantage is taken of any increase to load the vessels deeper. A recommended draft is issued from the canal offices which is obtained from the mean stage as recorded by the water guages.

During the past season the recommended draft of the Canadian lock for up bound was in excess of six inches of that of the American lock due to the difference in the controlling elevations of the locks, and for down bound, with the same controlling elevations, an additional draft was obtained by opening the filling valves and raising the water in the lock chamber, which could not be done to the same extent in the Poo lock chamber owing to the additional width of forty feet over the Canadian lock.

The result of this additional draft provided at the Canadian lock is marked by the great increase in tonnage this past season. Vessels were loaded at the ore docks for the lock to be used in transit and as many used the lock of greater draft as it was possible to accommodate at the time of passage.

The opening of part of the improved channelway at the upper entrance made it possible for vessels to use the full draft of the Canadian lock this season.

The deepening of the upper approach to the Canadian canal has provided 21 feet. 5 inches at extreme low water level, and 24 feet 5 inches at the regulated stage to be maintained.

Vessels navigating the lakes have increased to a length of 607 feet and 60 feet beam and can draw over 21 feet of water. With the coming of these large vessels, the time taken up in approaching, locking, and clearing has increased.

A notable increase in the Canadian tonnage has been made in the past five years. The statistics show that the Canadian registered tonnage, relative to the Canadian

canal, increased from 1,557,337 tons in 1904, to 2,912,586 tons in 1909.

The reasons for proposing a new canal at Sault Ste. Marie are: First, to keep pace with the rapid increase in Canadian tonnage with the development of the west. Secondly, to provide a lock of a width that will accommodate boats now plying on the lakes and being built of greater beam than the present lock will pass through. Thirdly, to provide additional draft both in the lock and approaches so that vessels may load to pass through the Canadian canal drawing as much water as will be provided by the new canal now under construction by the United States government.

I have the honour to be,

Your obedient servant,

F. B. FRIPP,

Engineer in Charge.

W. A. BOWDEN, Esq.,
Acting Chief Engineer,
Department of Railways and Canals,
Ottawa, Ont.

# ST. PETER'S CANAL.

March 31, 1910.

SIR,—I have the honour to submit my annual report of work and operation St. Peter's canal, under by charge during the fiscal year ending March 31, 1910.

The only repairs done to canal the past year was the placing of six new mooring posts, the hanging of 7 fenders, reaving 5 new chains.

The canal lock is still in a bad condition. We had to get the marine diver on two occasions last fall to clear away foul chains and shimmer up track, &c. The operating of gates is very heavy, particularly at low tide; when the tide is high they are more or less buoyant and come easier. You will find report of Mr. Sargent, C.E., inspecting engineer, September, 1908, which will give you an idea of conditions and the necessary repairs and improvements required on lock and canal. However, barring accidents, I think we can manage the operating for at least the coming season. Captains and crews of steamers and vessels are very off-handed in helping to move the gates, and it would not surprise me that at the opening of navigation this spring, I will require one or two more men on the canal staff.

Navigation opened on April 12, 1909, and closed January 11, 1910; during that time, 1,304 steamers and vessels passed up and down canal.

There is one tidal lock and four pairs of gates on St. Peter's canal.

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

JOHN H. DEVEREUX.

Lockmaster.

W. A. Bowden, Esq.. Acting Chief Engineer. Railways and Canals, Ottawa.

# PART VIII.-MISCELLANEOUS.

Table of distances, Intercolonial and Prince Edward Island Railways.

# INTERCOLONIAL RAILWAY.

Expenses, earnings, freight tonnage and passengers yearly since July 1, 1876.

Earnings, yearly since July 1, 1876.

Local and through freight, yearly since July 1, 1876.

Local and through passengers, yearly since July 1, 1876.

Coal carried from Nova Scotia collieries, yearly since July 1, 1876.

Grain carried for shipment, yearly since July 1, 1876.

Flour and meal carried, yearly since July 1, 1876.

Grain carried, yearly since July 1, 1876. Lumber carried, yearly since July 1, 1876.

Live stock carried, yearly since July 1, 1876.

Ocean-borne goods carried, yearly since July 1, 1876.

Raw and refined sugar carried, yearly since July 1, 1876.

Fresh and salt fish carried, yearly since July 1, 1876.

Ocean-borne passenger business at Halifax for fiscal year 1909-10.

Ocean-borne passenger business at St. John for the fiscal year 1909-10.

Ocean-borne passenger business at Quebec for fiscal year 1909-10. Ocean-borne freight traffic via Halifax for fiscal year 1909-10.

Ocean-borne freight traffic via St. John for fiscal year 1909-10.

# WINDSOR BRANCH.

Earnings, expenses and profits or losses, yearly from 1880.

# PRINCE EDWARD ISLAND RAILWAY.

Expenses, earnings, freight and passenger traffic, yearly from 1875.

### CANALS.

Statement showing total cost of construction and enlargement from Montreal to Port Arthur.

Statement showing total cost of construction and enlargement from Lachine to

Statement showing total cost of construction and enlargement from Ottawa to Kingston.

Statement showing total cost of construction and enlargement from St. Johns to Sorel.

Statement showing total cost of construction and enlargement from Lake Ontario to Georgian Bay.

Statement showing total cost of costruction and enlargement from Atlantic Ocean to Bras d'Or Lakes.

Dates of opening and closing of canals for the season of 1909.

Freight traffic in 1908 and 1909.

Diagrams showing dimensions of smallest lock on each canal, &c.

Dimensions and other features of the several canal works, and descriptions of the intermediate water navigations:

1. Between Montreal and Port Arthur or Fort William, Lake Superior.

2. Montreal, Ottawa and Kingston.

3. River Richelieu and Chambly Canal to Lake Champlain.

4. Trent Canal.

5. St. Peters Canal.



# INTERCOLONIAL RAILWAY.

The Intercolonial railway touches six Atlantic ocean ports, namely, Point du Chêne, Picton, Halifax, St. John, Sydney and North Sydney, as well as the River St. Lawrence ports of Lévis, opposite Quebec, and Montreal.

The total length of the road operated during the year ended March 31, 1910, was

1.447.13 miles.

The following are the through distances:—

			diles.
Montreal	to	Halifax, via Lévis	827
44	46	St. John, via Lévis	740
6.0	44	Sydney, via Lévis	990
**	46	North Sydney, via Lévis	983

Freight is carried direct via St. Henri, which would reduce each of the above distances by 3 miles.

# MAIN LINE AND BRANCHES.

# (As remeasured in 1908.)

	Miles.
Halifax to Truro	61.87
Dartmouth Branch	12.00
Truro to Moneton	123.77
Moneton to St. John	89.31
Pointe du Chêne Branch	11.98
Moneton to Campbellton	185.37
Campbellton to Ste. Flavie	105.03
Indiantown Branch	13.45
Ste. Flavie to Rivière du Loup	83.29
Rivière Ouelle Branch	6.19
Rivière du Loup to Pointe Lévis	115.55
Hadlow to Chaudière Curve	5.63
Chaudière to Ste. Rosalie	115.53
St. Charles Junction to Chaudière Junction	16.73
Nicolet Branch	14.70
Dalhousie Branch	6.28
Pictou to Oxford Junction	69.39
Brown's Point to Stellarton	11.90
Junction near New Glasgow to Pictou Landing	8.18
Pugwash Junction to Pugwash	4.54
Truro to Mulgrave	122.30
Mulgrave to Point Tupper (Ferry)	0.80
Point Tupper to Sydney	91.17
North Sydney Junction to Sydney Mines	7.07
Fredericton to Loggieville	124.80
	1.406.83
•	

# LEASED.

Length of main line from Pointe Lévis to Hadlow 1.48	
Chaudière Curve to Chaudière 1.19	
Ste. Rosalie Junction to Montreal 37.63	40.30

Total	miles														1.447.13
-------	-------	--	--	--	--	--	--	--	--	--	--	--	--	--	----------

# FREIGHT BRANCHES OWNED.

4	Δ	files.
Switch near North street to D.W.T., Halifax		0.85
Halifax Cotton Factory		2.10
Dartmouth Station to end of line		2.12
Sydney Station to wharf		1.06
North Sydney Station to wharf		0.82
Switch near Pictou landing to coal wharf		0.75
Pictou Station to wharf		0.15
Pictou Station to Copper Crown Smelter		0.72
Logan's Tannery siding		0.48
Pugwash Station to wharf		0.07
Sackville Wharf Branch		0.47
Dorchester Wharf Branch		1.00
Moneton Wharf Branch		1.00
Courtney Bay Branch		2.39
St. John water front extension		0.44
St. John Station to Deep Water Wharf		0.28
Newcastle Wharf Branch		1.75
Dalhousie Station to wharf		0.50
Campbellton Wharf Branch		0.43
Rimouski Wharf Branch		2.00
Trois Pistoles Spur		2.38
Rivière du Loup Wharf Branch		4.35
St. Pacôme Spur		1.27
Nicolet Station to wharf		2.08
Carmel Branch, main line to village		1.05
Blackville to Indiantown		8.50
Fort Lawrence Spur		1.18
Wallace Spur		2.00
Petit Rocher Spur to wharf		1.35

43.54

# WINDSOR BRANCH.

This road extends from Windsor Junction, on the Intercolonial railway, to Windsor, N.S., a distance of 32 miles.

# PRINCE EDWARD ISLAND RAILWAY.

# LENGTH OF LINE.

production of annual services	Miles.
Souris to Tignish	166
Mount Stewart to Georgetown	
Charlottetown to Royalty Junction	5
Emerald Junction to Cape Traverse	
Alberton to Cascumpec wharf	
Charlottetown to Murray Harbour	
Montague Junction to Montague	6.2

267.5

# INTERCOLONIAL RAILWAY.

The following table shows the working expenses, gross earnings, the tonnage of freight and number of passengers carried each year since July 1, 1876.

Year.	Average Miles in Operation.	Working Expenses.	Gross Earnings.	Profit.	Loss.	Tons of Freight carried.	No. of Passengers carried.
1876-77 1877-78 1878-79	714 714 714	\$ ets. 1,661,673 55 1,816,273 56 2,010,183 22	\$ cts. 1,154,445 33 1,378,946 78 1,294,009 69	\$ cts.	\$ ets. 507,228 22 432,326 78 716,083 53	421,327 522,710 510,861	613,420 618,957 640,101
1879-80 1880-81 1881-82 1882-83 1883-84 1884-85 1885-86	829 840 840 840 887 941 946	1,603,429 71 1,759,851 27 2,069,657 45 2,360,373 27 2,377,433 62 2,519,751 56 2,583,999 67	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	542 65 9,605 18 17,547 18 6,981 30	97,131 23 	561,924 725,777 838,956 970,961 1,009,237 989,986 1,023,788	581,483 631,245 779,994 878,600 944,636 957,228 932,880
1886-87. 18*7-88. 1888-89. 1889-90. 1890-91. 1891-92.	977 971 971 971 971 1,094	2,922,369 62 3,366,781 74 3,244,647 73 3,560,575 74 3,662,341 94 3,439,377 00	2,660,116 93 2,983,336 05 2,987,801 00 3,012,739 87 2,977,395 38 2,945,441 97		262,252 69 383,445 69 276,847 73 847,835 87 684,946 56 493,935 03	1,023,733 1,143,020 1,288,823 1,218,877 1,368,819 1,304,534 1,264,575	942,784 1,040,163 1,136 272 1,219,233 1,298,304 1,297,732
1892-93 1893-94 1894-95 1895-96 1896-97 1897-98	1,142 1,142	3,045,317 50 2,981,671 98 2,936,902 74 3,012,827 62 2,925,968 67 3,327,648 51	3,065,499 09 2,987,510 27 2,940,717 95 2,957,670 10 2,866,028 02 3,117,669 85	20,181 59 5,838 29 3,815 21	55,187 52 59,940 65	1,388,080 1,342,710 1,276,816 1,379,618 1,296,028 1,434,576	1,292,878 1,301,062 1,352,667 1,471,866 1,501,690 1,523,444
1898-99 1899-1900 1900-01 1901-02 1902-03 1903-04	1,301 1,301 1,301 1,301 1,315 1,321	3,675,686 21 4,431,404 69 5,460,422 64 5,574,563 30 6,196,653 19 7,239,982 04	3,738,331 44 4,552,071 71 4,972,235 87 5,671,385 91 6,324,323 72 6,339,231 43	62,645 43 120,667 02 96,822 61 127,670 53	488,186 77 900,750 61	1,750,761 2,151,208 2,111,310 2,385,816 2,790,737 2,664,149	1,603,095 1,029,754 2,517,295 2,186,226 2,404,230 2,663,156
1904-05. 1905-06. 1906-07. 1907-08. 1908-09. 1909-10.	1,448 1,448 *1,447·13	8,508,826 75 7,581,914 36 6,030,171 83 9,157,435 53 9,328.021 55 8,645,070 33	6,783,522 83 7,643,829 90 6,248,311 00 9,173,558 80 8,527,069 46 9,268,234 99	61,915 54 218,139 17 16,123 27 623,164 66	1,725,303 92	2,782,257 3,156,189 2,606,073 4,134,064 3,573,972	2,810,960 2,737,160 2,044,847 2,789,371 2,907,237 3,122,324

<sup>†</sup>The year 1906-07 was nine months only; the Canadian fiscal year having been changed to close on March 31, instead of June 30.

\* The railway was remeasured in this year.

# INTERCOLONIAL RAILWAY.

STATEMENT of Earnings, yearly, from July 1, 1876, to March 31, 1910.

Year.	Miles in Operation.	Passenger Traffic.	Freight Traffic.	Mails and Sundries,	Total.
1876-7. 1877-8. 1878-9. 1879-80. 1880-1. 1881-2. 1882-3. 1883-4. 1884-5. 1885-6. 1886-7. 1887-8. 1889-9. 1899-1. 1891-2. 1891-2. 1891-2. 1891-5. 1899-7. 1899-7. 1899-9. 1899-1900. 1900-1. 1900-1. 1900-1. 1901-2. 1902-3. 1903-4. 1902-6.	714 714 714 714 714 829 840 840 887 941 946 977 971 971 1,094 1,142 1,142 1,142 1,142 1,142 1,142 1,142 1,142 1,142 1,142 1,142 1,144 1,142 1,144 1,144 1,144 1,144 1,144 1,144 1,446	\$ cts. 460,368 15 475,256 82 451,893 29 490,338 66 545,114 48 651,296 94 741,992 72 775,783 77 747,285 13 705,900 03 828,328 28 884,448 07 9906,246 47 895,094 53 962,316 88 961,427 94 1,002,912 74 958,915 13 963,914 44 971,426 26 979,005 57 1,053,864 64 1,167,453 16 1,404,469 87 1,607,166 79 1,770,941 13 1,927,916 87 2,021,568 40 2,105,066 75 2,297,716 52 1,952,438 88	\$ cts. 607,564 99 801,709 82 752,490 85 915,486 50 1,113,872 21 1,303,496 00 1,487,601 98 1,461,390 37 1,542,052 10 1,523,487 72 1,677,971 59 1,932,877 85 1,909,904 44 1,964,646.86 1,854,629 88 1,803,529 03 1,868,853 84 1,782,608 54 1,782,608 54 1,788,813 18 1,887,126 34 1,782,608 54 1,788,813 18 1,857,740 06 2,348,096 58 2,912,790 52 3,121,006 15 3,644,513 42 4,128,255 00 4,041,122 48 4,373,178 75 5,019,805 53 4,032,743 00	\$ cts. \$6,512 21 101,985 07 \$8,715 55 100,473 32 101,407 23 124,470 72 141,326 40 147,240 78 151,566 35 160,706 13 153,817 06 166,010 13 152,460 09 152,993 48 160,448 62 180,485 00 184,468 80 193,762 51 194,194 97 197,400 68 199,472 03 206,065 15 222,781 70 234,811 32 244,062 93 255,931 36 268,151 75 276,540 55 305,277 53 326,307 85 363,637 85 263,127 12	\$ cts. 1,154,443 33 1,378,946 78 1,294,009 6,298 48 1,750,493 92 2,079,262 66 2,379,910 10 2,383,414 92 2,441,203 66 2,450,093 83 2,967,801 93 2,983,336 95 2,967,801 93 2,987,302 27 2,977,395 38 2,945,441 97 3,065,499 02 3,117,669 85 3,738,331 44 4,552,071 91 4,972,235 87 5,761,385 91 6,324,323 72 6,339,231 43 6,783,522 83 7,643,829 93 7,643,829 93 7,643,829 93
1906-7. 1907-8. 1908-9. 1909-10.	1,448 1,448 *1,447:13 1,447:13	2,711,416 98 2,628,218 57 2,765,884 66	6,054,493 45 5,502,550 58 6,048,884 18	407,643 37 396,300 31 453,466 15	9,173,358 80 8,527.069 46 9,268,234 99

<sup>\*</sup> As remeasured in this year. + 1906-07, nine months only.

# INTERCOLONIAL RAILWAY.

STATEMENT showing the Number of Tons of Local and Through Freight carried, yearly, from July 1, 1876, to March 31, 1910.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Year.	in			Total.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1877-8. 1878-9. 1879-80. 1880-1. 1881-2. 1882-3. 1883-4. 1884-5. 1885-6. 1886-7. 1887-8. 1889-90. 1890-1. 1891-2. 1892-3. 1893-4. 1894-5. 1898-9. 1899-1000. 1900-1. 1901-2. 1902-3. 1903-4. 1904-5. 1905-6. 1906-7. 1907-8.	714 714 714 829 840 840 840 880 887 941 977 971 971 1,094 1,142 1,142 1,142 1,142 1,142 1,142 1,145 1,315 1,315 1,315 1,315 1,315 1,315 1,346 1,446 1,446 1,448 1,448	years wa when the gin Moncton 571,784 587,025 584,581 506,574 580,076 633,455 727,599 624,436 756,696 797,492 750,783 1,030,628 966,114 901,374 1,101,229 927,167 1,053,569 1,351,569 1,713,928 1,633,671 1,914,551 2,239,993 2,123,261 2,119,528 2,413,863 1,996,869 3,227,435	s destroyed reneral offices were burned.  267,272 443,936 424,656 483,352 443,712 509,565 561,224 594,441 612,123 507,042 315,452 376,596 366,442 368,389 368,859 381,007 399,192 437,280 477,639 471,265 550,744 540,888 662,729 742,326 609,204 906,629	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 1,267,816 1,379,618 1,296,028 1,434,576 1,750,761 2,151,208 2,111,310 2,782,257 3,156,189 *2,606,073 4,134,064

# INTERCOLONIAL RAILWAY.

STATEMENT of the Number of Local and Through Passengers carried, yearly, from July 1, 1876, to March 31, 1910.

Year.	Miles in Operation.	Local	Number of Through Passengers.	Total.
1876-7 1877-8 1878-9 1879-80 1880-1 1880-1 1881-2 1882-3 1883-4 1884-5 1885-6 1886-7 1887-8 1888-9 1889-90 1890-1 1890-1 1891-2 1892-3 1894-5 1896-7 1897-8 1898-9 1909-1 1900-1	714 829 840 840 840 887 941 946 977 971 971 971 1,094 1,142	years wa when the g	tion for these s destroyed eneral offices twere burned.  132,460 150,414 159,921 145,200 148,063 128,752 91,839 85,680 91,531 94,490 99,083 104,051 85,035 80,383 85,063 85,059 89,854 98,443 112,896 119,696 125,030 149,217 215,313 221,032 245,688 191,721 195,485 251,020 248,777	613,420 619,957 640,101 581,483 681,245 779,994 878,600 944,636 957,228 932,880 942,784 1,404,163 1,136,272 1,219,233 1,298,304 1,297,732 1,292,878 1,301,062 1,352,667 1,471,866 1,501,690 1,523,444 1,103,095 2,186,226 2,404,230 2,663,156 2,810,960 2,737,160 2,810,960 2,737,160 2,044,847 2,789,371 2,907,237

<sup>\*1905-07</sup> nine months only. + As remeasured in this year.

The following table shows the number of Tons of Coal carried over the Intercolonial railway from the Nova Scotia collicries to Ste. Rosalie, Montreal and St. John for points west thereof, and to local stations in each year since July 1, 1876.

Year.	Year.  Via Via Via Ste-Rosalie.  Via Montreal.  Via St. John.								
1876-7. 1877-8. 1878-9. 1879-80. 1889-1. 1881-2. 1882-3. 1883-4. 1884-5. 1885-6. 1856-7. 1887-8. 1888-9. 1899-1. 1891-2. 1892-3. 1893-4. 1894-5. 1895-6. 1897-8. 1898-9. 1890-1. 1901-2. 1902-3. 1902-3. 1903-4. 1904-5. 1905-6. 1905-7. 1907-8. 1906-7. 1907-8. 1908-9. 1909-10.		300 1,097 6,102 18,015 12,837 32,014 133,440 171,170 192,871 183,704 160,026 164,453 113,996 35,447 136,868 102,273 67,082 53,124 38,395 9,084 4,644 3,495 5,763 7,817 637 265 1,625 2,808 183 945 890	4,022 11,779 22,206 19,532 1,773 21,150 27,536 36,228 27,923 25,126 69,213 5,918 3,775 8,028 7,865 9,681 12,305 9,796 5,399 3,640 6,775 513 5,022 661 3,252 4,245 4,243 1,452	103,420 97,043 112,232 135,369 174,483 218,364 227,380 252,014 213,791 215,272 233,178 309,727 338,538 366,967 344,829 392,441 402,653 367,390 310,253 369,708 331,469 484,163 599,711 506,454 546,966 725,727 691,346 596,290 610,444 624,833 1,061,694 909,050 1,003,120	103, 420 97, 043 112,532 136,466 184,607 248,158 262,423 293,562 349,004 407,592 453,585 529,659 526,487 554,546 498,038 433,806 443,296 478,691 385,200 432,513 382,172 369,949 494,206 603,289 506,590 557,520 603,289 506,590 557,520 1,066,134 914,752 1,005,504				

<sup>\*1906-07</sup> nine months only.

Table showing the number of Bushels of Grain carried during each year over the Intercolonial railway for shipment since July 1, 1876.

Year.	Bush	els.	Total.	Year.	Bush	nels.	Total.
rear.	Via Chaudière.	Via St. John.	Total.	I car.	Via Chaudière.	Via St. John.	Total.
1876-77	31,011 73,389 300,991 389,122 575,880 69,021 129,725			1893-94 1894-95 1895-96 1896-97 1897-98 1899-1900 1900-01 1901-02 1902-03 1903-04 1904-05 1905-06 1906-07 1907-98 1908-09 1908-09 1908-09	147 Nil. 147,438 Nil *170,000		8,026 Nil. " 8,000 30,000 13,239 147 Nil. " 147,438 Nil. 170,000 Nil.

<sup>\*</sup> Via Montreal. 1906-1907 nine months only.

Table showing the number of Barrels of Flour and Meal carried during each year over the Intercolonial railway since July 1, 1876.

Year.	Barrels.	Year.	Barrels.
1876-77. 1877-78. 1878-79. 1879-80. 1880-81. 1881-82. 1882-83. 1883-84. 1884-85. 1885-86. 1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92.	254,710 557,778 630,329 535,248 672,310 692,095 983,916 817,134 935,977 761,127 763,894 871,838 948,514 1,116,050 1,013,129 954,615 856,913	1893-94. 1894-95. 1895-96. 1896-97. 1897-98. 1898-99. 1899-1900. 1900-01. 1901-02. 1902-03. 1903-04. 1904-05. 1905-06. 1905-07. 1907-08. 1908-09. 1908-09.	944,967 938,351 822,097 847,701 987,408 1,157,250 1,234,077 1,292,106 1,311,707 1,521,540 1,607,050 1,769,480 1,882,630 1,531,140 1,528,620 1,466,920 1,608,170

1906-07, nine months only.

Table showing the number of Bushels of Grain carried during each year over the Intereolonial railway since July 1, 1876.

Year.	Bushels.	Year.	Bushels.
1876-77. 1877-78. 1878-79. 1879-80. 1880-81. 1881-82. 1882-83. 1883-84. 1884-85. 1885-86. 1886-87. 1887-88. 1888-89. 1889-90. 1890-91.	292,852 331,170 302,921 534,021 565,678 560,253 1,195,601 654,673 734,902 849,800 1,018,395 1,219,035 1,256,158 2,610,202 2,890,921	1893-94. 1894-95. 1895-96. 1896-97. 1897-98. 1898-99. 1899-1900. 1900-1901. 1901-02. 1902-03. 1903-04. 1904-05. 1905-06. 1906-07. 1907-08.	1,304,68 1,036,38 1,064,38 1,093,49 1,551,37 2,595,35 2,720,45 3,535,36 2,959,76 3,392,25 2,788,77 3,317,91 2,924,22 2,231,86 4,567,24

1906-07 nine months only.

Table showing the quantity of lumber in feet carried during each year over the Intereolonial railway since July 1, 1876.

Year.	Feet.	Year.	Feet.
1876-77. 1877-78. 1878-79. 1879-80. 1880-81. 1881-82. 1882-83. 1883-84. 1884-85. 1885-86. 1886-87. 1887-88. 1888-89. 1889-90. 1890-91. 1891-92.	56,626,547 55,626,696 55,462,654 72,841,388 78,356,418 104,633,417 131,120,948 138,493,675 117,186,512 161,801,763 197,755,272 199,507,777 210,886,071 184,188,324	1893-94. 1894-95. 1895-96. 1896-97. 1897-98. 1898-99. 1899-1900. 1900-1901. 1901-02. 1902-03. 1903-04. 1904-05. 1905-06. 1906-07. 1907-08. 1908-09. 1909-10	200,507,949 202,247,269 226,332,715 243,335,725 354,093,816 306,554,031 379,350,074 428,051,029 459,231,589 465,379,803 518,483,310 572,878,600 452,602,703 754,759,383 571,395,101 677,805,611

1906-07 nine months only.

1 GEORGE V., A. 1911

Table showing the number of Live Stock carried during each year over the Intercolonial railway since July 1, 1876.

Year.	Number.	Year.	Number.
.876-77	34.414	1893–94	79,203
	46,498	1894–95	72,106
.878-79.	47,584	1895–96.	64,051
.879-80.	70,990	1896–97.	72,082
880~81.	61,574	1897-98	89,301
881-82.	73,479	1898-99	109,821
.882-83	68,338 60,090	1899–1900	92,813
.883-84	70,785	1900-01. 1901-02.	95,923 98,495
.885-86	74,498	1902-03	127,060
.886-87	82,896		113,006
887-89	98,302 85,960	1904-05. 1905-06.	$110,670 \\ 106,589$
889-90	80,771	1906-07.	97,381
890-91	95,529	1907-08.	99,824
891-92	87,889	1908-09	$104,165 \\ 106,712$
892-93	93,369	1909-10	

1906-07 nine months.

Table showing the number of Tons of Ocean-borne goods to and from Europe carried over the Intercolonial railway during each year since July 1, 1876.

Year.	Via Ste. Rosalie and from the West.	Via Mont- real to and from the West.	St. John to and from the West.	To and from Local Stations.	Total.
76-77					
377-78		14,949	*****	3,405	18,35
78-79		21,628		2,643	24,27
79-80		21,073		4,952	26,02
80–81		15,454		3,334	18,78
81-82		21,607		4,168	25,77
82-83		24,875		7,911	32,78
83-84		19,696		6,533	26,22
84-85		22,787		8,405	31,19
85-86		13,464		8,216	21,69
86–87		16,923		9,811	26,73
87-88		41,864		8,878	50,74
88-89		17,340		11,481	28,82
89-90		9,895		11,730	21,63
90-91		9,923		10,764	20,68
91-92		9,719		23,835	33,57
92-93		7,295		12,319	19,71
93-94		3,023	204	13,455	16,68
94-95		6,749	213	10,399	17,36
95-96		3,767	314	16,748	20,82
96–97		2,654	263	17,239	20,15
97-98		5,950	1,637	18,633	26,22
98–99		2,462	243	31,555	34,26
99-1900		6,880	307	37,108	39,79
00-01	322	7,780	1,142	155,514	163,83
91-02	1,106	11,925	1,528	172,733	183,14
02-03	817	21,377	1,194	124,695	138,63
03-04	2,079	15,325	2,994	146,070	174,52
04 05	284	17,217	3,687	85,853	105,14
05-06	2,026	15,922	5,337	128,462	153,04
06-07	1,384	16,652	436	110,447	128,21
07-08	2,440	16,652	519	134,541	154,05
08-09 09-10	$\frac{2,487}{2,367}$	23,402 $21,064$	649 5,818	119,913 131,273	146,45 $160,52$

1906-07 nine months only.

Table showing the number of Tons of Raw and Refined Sugar carried over the Intercolonial Railway during each year since July 1, 1876.

		Ra	W SUGAR	i.			REF	INED SUG	AR.	
Year.	Via Ste. Rosalie.	To Montreal for the west.	To St. John for the West.	To Local Stations	Total.	To Ste. Rosalie for the West.	To Montreal for the West.	To St. John for the West.	To Local Stations	Total
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1877-78	357 602			1,290 508 3,068 3,661 3,998 8,500 14,085 7,160 8,913 8,215 10,535 10,137 10,342 9,824 4,925	340 186 1,041 12,220 13,872 15,546 9,973 16,846 14,042 8,392 28,950 28,405 31,518 16,303 17,973 21,637 10,137 6,775 10,342 9,824 4,925  96 489 11,643 8,727 15,684 17,331 8,727 15,685 5,283 8,528 14,512	403 3,101 3,183 6,013 1,446 4,235 1,998 5,280 5,095 6,402	4,022 7,146 11,126 14,543 18,024 7,674 15,044 21,641 12,955 10,130 12,633 8,327 17,729 13,351 15,138 5,694 6,624 8,138 9,795 14,791 6,831 5,763 8,628 7,107 12,268 5,898 10,555 8,906 9,217		2,902 3,607 5,497 7,265 8,445 5,858 7,133 11,120 6,125 5,996 12,414 7,840 6,957 10,989 11,309 15,835 10,615 18,839 20,529 20,400 22,937 10,615 18,839 22,478 11,392 22,478 11,392 22,478 21,527 21,527 21,527 21,527 21,527 23,224	6,924 10,753 16,623 21,808 26,469 13,518 28,774 24,075 12,903 33,581 33,865 40,181 20,720 26,534 26,164 29,967 25,821 29,632 31,111 44,920 31,764 41,459 37,631 36,507 37,631 36,507 39,894

1906-07-nine months only.

1 GEORGE V., A. 1911

Table showing the number of Tons of Fresh and Salt Fish carried over the Intercolonial railway during each year since 1876.

_		F	RESH FIS	SH.		Salt Fish.					
	ia Ste. Rosalie	Via Mont- real,	Via St. John	To Local Stations	Total.	Via Ste. Rosalie.	Via Mont- real.	Via St. John	To Local Stations	Tota	
	Tons.	Tons.	Tons.	Tons.	Tons	Tons.	Tons.	Tons.	Tons.	Ton	
76–77		530	921	527	1.978		551	1,848	802	3.20	
77–78		596	1.015	474	2,085		898	1,644	805	3,3	
78-79		471	1,336	817	2,624		988	1.038	1.048	2,9	
9-80		519	1,362	453	2,334		1,612	2,238	959	4,8	
80-81		498	1,879	920	3,297		2,418	937	1,051	4,4	
81-82		475	1,619	957	3,051		4,031	1,066	2,487	7,5	
82-83		542	384	393	1,319		3,229	759	1,354	5,4	
33-84		838	1,682	412	2,932		1,322	1,143	1,224	3,6	
34-85		1,062	1,885	484	3,431		3,563	3,600	1,596	8,7	
85-86		1,669	1,645	902	4,216		1,687	2,047	3,376	7,10	
86-87		1,278	1,572	2,008	4,858		3,236	569	1,747	5,5	
		1,533	1,477	1,031	4,041		2,617	476	1,099	4,1	
		2,474	2,000	1,870	6,344		3,070	7,746	2,994	13,8	
		2,235	1,787	2,111	6,223		2.449	S47	3,288	6,5	
		2,029	2,788	1,848	6,665		1,953	1,917	3,236	7,1	
91-92		1,367	1,746	547	3,660		1,946	928	1,889	4,70	
92-93		1,683	$\begin{vmatrix} 1,875 \\ 2,192 \end{vmatrix}$	$\begin{array}{ccc} 3,340 \\ 2,224 \end{array}$	6,898 6,375		3,262 $2,921$	1,811	2,176 2,962	7,2	
93-94		1,959 2,006	3,726	1,160	6,892		$\frac{2,921}{2,075}$	1,814 1,849	5,285	7,69 $10,20$	
94-95		1,966	3,059	1,100	6.344		1.863	1,087	2,791	5.7	
		3,307	3,115	1,319	7,708		2,168	1.176	2,791	5.8	
96-97 97-98		3,575	3,703	1,052	8,330			1,066	2,330	5,0	
		1,210	2,070	3,305	6,583			1,198	3,625	5,4	
		2,547	2,706	3,686	8,939		2,421	1,563	2.659	6.6	
00-01	37	2,009	3,207	4,125	9,393	360	3,419	1,346	4,643	9,7	
01-02	219	3,013	4,373	5,477	13,082	283	3,150	1,413	5,196	10,0	
02-03	140	2,269	3,040	4,842	10,289	493	2,808	1,615	6,579	11.4	
03-04	539	1,939	3,588	5,002	11.068	225	2,359	564	5,848	8,9	
04-05	779	1,902	3,674	5,516	11,871	433	2,673	272	6,759	10.13	
05-06	284	2,748	2,439	7,706	13,177	683	2,740	346	6,994	10,70	
06-07	320	2,882	3,712	7,400	14,314	307	3,156	416	6,348	10,2	
07-08	199	3,288	1,353	6,224	11,064	661	2,856	1,976	7,034	12,5	
08-09	312	2,965	2,794	6,946	13,017	668	4,078	1,632	4,866	11,2	
09-10	547	3,965	2,616	6.525	13,653	697	3,759	806	9,606	14,80	

1906-07-nine months only

#### WINDSOR BRANCH.

This road is operated by the Dominion Atlantic Railway Company (formerly the Windsor and Annapolis Railway Company), under a lease which covers also running powers over the Intercolonial railway between Windsor Junction and Halifax. The company retain two-thirds of the gross earnings, and the government receive one-third of the gross earnings, for maintaining the way and works.

Year.	Miles in oper- ation,	One-third gross earnings,	Proportion credited to line Windsor Junction to Halifax.	Proportion credited to the Windsor Branch.	Maintenance expenses.	Profit.	Loss.
1880-81. 1881-82. 1882-83. 1883-84. 1883-86. 1886-87. 1887-88. 1889-90. 1890-91. 1891-92. 1892-93. 1893-94. 1894-95. 1895-96. 1896-97. 1897-98. 1899-1900 1900-01. 1901-02 1902-03. 1903-04. 1904-05. 1905-06. 1905-06. 1905-06. 1906-07. 1907-08. 1908-09. 1909-10.	32 32 32 32 32 32 32 32 32 32 32 32 32 3	\$ cts. 28,434 29 28,461 07 31,199 77 30,428 30 32,246 30 31,185 63 33,564 58 32,242 85 37,313 43 39,519 56 42,891 23 43,901 28 41,834 70 50,703 84 47,456 74 54,208 81 48,892 21 56,314 51 62,266 61 62,523 20 65,315 38 56,417 38 72,708 54 66,798 46 66,936 66 61,597 30 76,471 58 75,781 80 81,861 73	\$ cts.  7,217 76 7,407 88 8,085 88 7,409 495 7,527 52 8,237 00 6,689 30 6,689 30 8,941 32 9,381 73 9,284 18 9,382 38 9,585 17 8,859 23 11,626 20 10,894 91 13,605 58 11,665 57 13,840 48 14,925 18 15,261 31 15,710 79 13,856 67 13,856 48 14,925 18 15,261 31 15,710 79 13,856 67 19,074 49 16,759 79 16,484 16 16,156 78 20,041 17 19,750 47 21,207 75	\$ cts. 21,216 53 21,052 19 24,113 89 23,018 93 24,451 35 23,658 11 25,327 58 24,553 55 28,372 11 30,162 46 33,508 35 30,235 13 34,316 11 32,975 47 39,977 64 36,561 83 40,603 23 37,226 64 42,474 04 47,351 43 47,261 89 49,604 59 42,560 81 53,634 05 50,038 67 49,452 50 45,440 52 56,430 41 56,031 33 60,653 98	\$ cts. 20,502 26 13,099 55 23,103 93 22,140 86 18,751 96 19,229 49 26,049 33 24,040 33 22,856 50 18,982 82 28,931 71 19,514 37 16,889 95 17,645 09 14,640 07 16,476 46 10,821 04 18,181 09 12,873 06 12,891 56 16,862 66 16,376 27 17,843 19 24,281 09 26,863 16 17,485 97 15,425 32 37,912 11 36,234 55 23,549 90	\$ cts. 714 27 7,953 64 1,009 96 878 07 5,699 39 4,428 62  513 22 7,515 61 11,179 64 1,303 42 13,994 48 17,426 16 15,330 38 24,437 57 20,985 37 29,782 19 14,045 01 29,600 94 34,459 87 30,399 23 33,228 32 24,717 62 29,352 96 23,175 51 31,966 53 30,015 20 18,518 20 19,796 78 37,104 08	\$ cts.

1906-07 -nine months only.

# PRINCE EDWARD ISLAND RAILWAY.

The following table shows the working expenses, the gross and net earnings, the tons of freight and number of persons carried each year since June 30, 1875, when the road was first opened for traffic:—

Year.	Miles in operation.	Working expenses.	Gross earnings.	Loss.	Tons of freight carried.	No. of passengers carried.
		\$ ets.	\$ ets.	\$ cts.		
875–76	199	214,930 43	118,060-96	96,869 47	28,358	93,964
876-77	199	228,595 25	130,664 92	97,930 33	41,039	93,478
877-78	199	221,599 49	135,899 60	85,699 89	38,668	111,428
878-79	199	223.313 12	125,855 99	97,457 21	38,923	105,046
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	102,937
881-82	199	228,259 97	137,267 54	90,922 43	48.315	118,436
882-83	199	252,808 41	146,170 42	106,637 99	51,920	117,162
883–84	199	236,428 13	144,504 12	91,924 01	51,841	118,988
884-85	211	211,207 01	158,588 06	52,618 95	57,346	130,423
885–86	211	216,744 34	155.584 36	61,159 98	57,913	120,374
886-87	211	204,237 37	155,303 37	48,934 00	63,589	103,067
887–88	211	229,639 95	158,365 62	71,276 33	59,603	131,246
888-89	211	247,559 44	171,369 56	76,189 89	55,682	152,780
889-90	211	266,485 85	160,971 78	105,514 07	51,604	133,099
890-91	211	257,990 08	174,258 05	83,732 03	59,511	145,508
891-92	211	289,706 38	157,442 69	132,263 69	51,065	139,389
892–93	211	226,422 17	162,690 42	63,731 75 68,257 23	56,718 53,577	132,111
893-91	211	226,891 06	158,533 83		48,325	123,727 $125,089$
894–95	211	232,105 19	149,654 71	83,250 41 78,662 02	46,395	122,586
895–96	211	225,138 56	146,476 54 153,443 13	87.046 77	52,151	121,498
896-97	211	240,489 90 231,418 74	158,950 61	72,468 13	57,539	126,510
897-98	$\frac{211}{211}$	218,053 01	165,021 03	53,040 98	57,968	129,667
898-99	211	220,931 81	174,738 73	46,193 08	62,227	147,471
899–1900 ,	211	261,766 24	193,833 48	67,883 76	73,696	157,793
900-01	211	270,159 97	197,999 97	72,160 00	75,351	184,748
901-02	209	259,637 82	217,714 24	41,923 58	80,582	205,265
902-03	209	335,695 44	234,390 03	101,305 41	86,286	224,517
903-04 904-05	209	370,464 44	217,330 61	153,133 83	75,969	235, 194
905 06	261	294,253 16	257,270 57	36,982 59	87.162	256,092
906-07	267	283,148 50	215,434 97	67,713 53	67,144	232,371
907-08	267	399,947 79	304,579 83	95,367 96	97,250	317,828
908-09	267.5	400,330 00	311,319 63	89,010 78	106,090	332,758
909-10	267 5	427,283 73	319,074 74	108,208 99	105,741	351,038

1906-07—nine months only.

#### CANALS.

STATEMENT showing the total cost of the individual Dominion canal works and connecting waters, up to March 31, 1910.

# Route from Montreal to Lake Superior.

	Original Construction.				of St. Lawrence		Tota	ıls.
	s	cts.	\$	cts.	\$	ets.	\$	cts.
Lachine Canal Lake St. Louis. Soulanges Canal Beauharnois Canal. Lake St. Francis Cornwall Canal Williamsburg Canal Farran's Point Canal Rapide Plat Canal Galops Canal Galops Rapids. St. Lawrence River and Reaches North Channel Murray Canal Welland Canal Sault. Ste. Marie Canal	7,126, 1,636, 1,945, 1,320, 1,248, 7,693,	135 61 690 26 624 73 655 54 946 71 824 03 532 60	5,289,1 10,6 877,6 2,158,2 6,120,9	142 41 596 26 5990 57 242 00 985 18	1,072, 711, 1,684,	906 71 227 11 238 93 389 51	7,126, 1,636, 75, 7,234, 1,331, 877, 2,158, 6,120, 1,072, 711, 1,684, 1,248, 28,506, 4,868,	176 11 135 61 690 26 906 71 767 14 351 80 0990 57 242 00 985 18 227 11 238 93 389 51 946 71 863 19 532 90

# Route from Lachine to Ottawa.

_	Original Construction.	Enlargement.	Total.
Ste. Anne's Lock. Carillon and Grenville. Culbute Canal (superseded).  Total.	\$ cts. 134,456 51 63,053 64 382,776 46 580,286 61	1,035,759 12	1,170,215 63 4,182,092 96

Construction by the Imperial Government is not included. Records relating to same were kept in Ordnance Office, Montreal, and were destroyed by fire in 1852.

# Route from Ottawa to Kingston.

	Original Construction.	Enlargement.	Total.
Rideau Canal Tay Canal	4,085,889 21 489,599 23	\$ cts.	4,085,889 21 489,599 23
Total	4,575,488 44	• • • • • • • • • • • • • • • • • • • •	4,575,488 44

# Route from St. Johns, P.Q., to Sorel.

	Original Construction.	Enlargement.	Total.
Chambly Canal	\$ cts. 637,056 76 121,537 65 758,594 41	\$ cts. 43,944 33 43,944 33	\$ cts. 681,001 09 121,537 65 802,538 74

# Route from Lake Ontario to Georgian Bay.

_	Original Construction.	Enlargement.	Total.
Trent Canal	\$ cts.	\$ cts.	\$ cts.
Total			

# Route from Atlantic Ocean to Bras d'Or Lakes.

·	Original Construction.	Enlargement.	Total.
St. Peter's Canal—Cape Breton	\$ cts.	\$ cts.	\$ cts.
	248,762 84	399,784 30	648,547 14
	248,762 84	399,784 30	648,547 14

TABLE showing the dates of opening and closing of the canals for the season of 1909.

Name of Canal.	Navigation Opened 1909.	Navigation Closed 1909.
Lachine Soulanges Gorenville Carillon Chambly. Ste. Anne's St. Ours Cornwall Williamsburg.  Farran's Point Williamsburg.  Galops. Murray. Welland Sault Ste. Marie Rideau. At Kingston Mills Lake Simcoe to Fenelon Falls. Fenelon Falls to Lakefield Lakefield to Peterborough Peterborough to Healey Falls.	April 30.  " 20.  May 3.  " 1.  " 1.  " 1.  April 12.  " 15.  " 21.  May 1.  " 1.  April 21.   November 30.  " 30. " 30. " 30. " 30. " 30. " 30. December 6.  " 8. " 8. " 8. " 16. November 30. " 20. " 11. " 20. " 15. " 27.	

Comparative Statement of Tons of Freight which passed through the canals in seasons of 1908 and 1909.

Name of Canal.	Season	Season	Number of vess		
Name of Canal.	of 1908.	of 1909.	Season of 1908.	Season of 1909,	
	Tons.	Tons.			
Velland Canal	1,703.453	2,025,951	2,351	2,433	
t. Lawrence Canals	2,009.102	2,410,629	8,025	9,271	
Chambly Canal. Ottawa River Canals	$\begin{array}{c} 503,276 \\ 258,527 \end{array}$	752,117 $336,939$	3,594 $1.882$	4,72	
Rideau Canal	89,640	91,774	7,981	2,183 2,236	
St. Peter's Canal	72,015	79.850	1,380	1,439	
Trent Canal	81,690	59,952	5,025	3,730	
Jurray Canal	25,901	102,291	998	957	
Sault Ste. Marie Canal	12,759,216	27,861,245	5,293	6,331	
fotal	17,502,820	33,720,748	36,529	33,303	



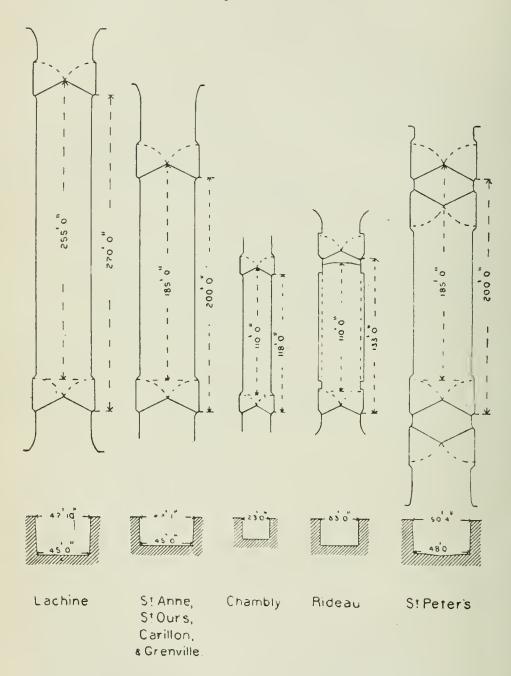
# CANALS

DIAGRAM SHOWING DIMENSIONS OF THE SMALLEST LOCK ON EACH
CANAL. LENGTHS AND LOCATIONS OF THE DOMINION
CANALS AND THE INTERMEDIATE WATERS

WITH

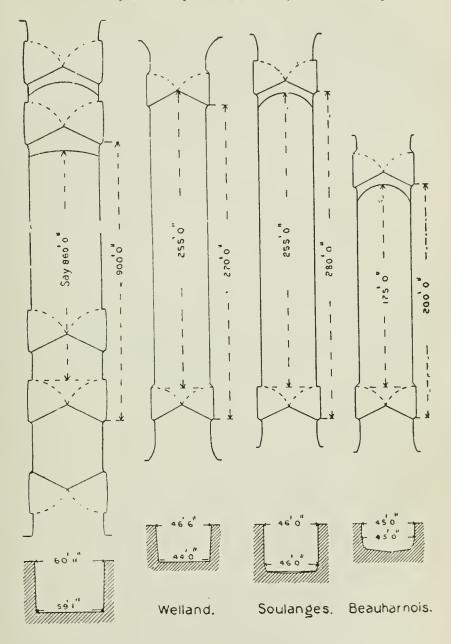
DIMENSIONS OF LOCKS.

Plans and Sections showing Dimensions of the Smallest Lock on each



There are no locks on the through route between Lake Superior and

of the Canadian Canal Systems except the Trent Canal, which is uncompleted.

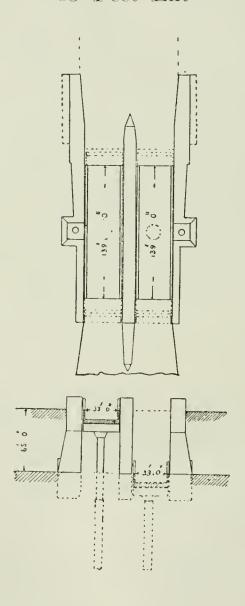


Sault Ste Marie.

Montreal of less dimension than those of the Welland Canal Locks.

# TRENT CANAL

Hydraulic Lift-Lock at Peterborough 65 Feet Lift



# CANALS

The following statements give in concise form the essential features of the govcrnment canal works and the intermediate water navigation:—

The canal systems of the Dominion, under government control in connection with lakes and navigable rivers are as follows:—

First.—The through route between Montreal and Port Arthur or Fort William on the west shore of Lake Superior (14 feet minimum depth of water.)

	Statute Miles.
1. Lachine Canal	81/2
Lake St. Louis and River St. Lawrence	16
2. Soulanges Canal	14
Lake St. Francis and River St. Lawrence	33
3. Cornwall Canal	11
River St. Lawrence	5
4. Farran's Point Caual	11
River St. Lawrence.	10
5. Rapide Plat Canal	32
River St. Lawrence	4
6. Galops Canal	$7\frac{1}{3}$
River St. Lawrence and Lake Ontario	236
7. Welland Canal	263
Lake Erie, Detroit River, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie Canal	14
Lake Superior to Port Arthur or to Fort William	273
Dake Superior to 101t Intuit of to 101t William.	
Total	$1.230\frac{1}{4}$
To Duluth	1,354
Chicago	1,286

Second-Ottawa to Lake Champlain.

1. Grenville. 2. Carillon. 3. Ste. Anne's. 4. Chambly. 5. St. Ours Lock.

Third.—Ottawa to Kingston and Perth.

1. Rideau canal.

Fourth.—Lake Ontario at Trenton to Lake Huron.

1. Trent canal (not completed).

Fifth.—Atlantic Ocean to the Bras d'Or Lakes, Cape Breton.

1. St. Peter's Canal.

#### 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, or Fort William on the west coast of Lake Superior, a distance of 2,233 statute miles. The distance to Duluth is 2,357 miles. The distance to Chicago, 2,289 miles.

From the Straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal, the distance is 1,003 statute miles. From Quebec to Montreal the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from 10 to twelve feet were formely 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 27½ 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 Department of Marine and Fisheries. The channel has a depth of 30 feet at extreme low water, and a minimum width of 450 feet, extending to 600 feet at points of curvature. channel is lighted and buoyed. A 35 foot deep channel was commenced in 1907.

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 St. Lawrence canals, 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 the tidal influence ceases, and Lake Superior, is about 600 feet.

The Dominion cauls, constructed between Montreal and Lake Superior, are the Lachine, Soulanges, Cornwall, Farran's Point, Rapide Plat, Galops, Murray, Welland and Sault Ste. Marie. Their aggregate length is 73 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 48. The Soulanges canal takes the place of the Beauharnois canal, abandoned for navigation purposes.

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 canals, situated on

the United States side of the River St. Mary.

Improvements of the United States channels in St. Mary's river through Hay lake, east of the Sault Ste. Marie, have been carried on for several years past. The dredged areas now total 34 miles in length, with a minimum width of 300 feet, which is increased at angles and other critical points to 1,000 feet. The depth is 20 feet at the mean stage of water. In the year 1903 excavation was commenced to afford 21 feet at the lowest stage of water.

It is important to note that the enlargement of canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length, 270 feet; width, 45 feet; depth of water on sills, 14 feet. The length of the vessels to be accommodated is limited to 255 feet. At Farran's, in the canal of that name, the lock is 800 feet long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

# LACHINE CANAL.

Length of canal	8½ statute miles
Number of locks	5
Dimensions of locks	270 feet by 45 feet
Total rise or lockage	45 feet
Depth of water on sills, at two locks	
Depth of water on sills, at three locks	
Average width of new canal	

The old lift locks, 200 feet by 45 feet, are still available, with 9 feet of water on mitre sills. The two lower north locks, however, have been lengthened to 270 feet, and bave 16½ feet of water on the sills.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end.

The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of the series of rapids which bar the ascent of the River St. Lawrence. They are 986 miles distant from the Straits of Belle Isle.

#### SOULANGES CANAL.

Length of canal	14 statute miles
Number of locks—	
Lift	4
Guard	1
Dimensions of locks	280 feet by 45 feet
Total rise or lockage	84 feet
Depth of water on sills	15 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	164 "

The canal extends from Cascade Point to Coteau Landing, overcoming the Cascades rapids, Cedar rapids and Coteal rapids.

From the head of the Lachine to the foot of the Soulanges the distance is sixteen miles.

#### CORNWALL CANAL.

Length of canal	11 statute miles
Number of locks	6
Dimensions of locks	270 feet by 45 feet
Total rise or lockage	48 feet
Depth of water on sills	14 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	164 "

The old lift locks, 200 feet by 50 feet, are also available with nine fect of water on mitre sills.

From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis 33 miles, which is navigable for vessels drawing fourteen feet.

The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickinson's Landing.

## WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat and Galops canals are collectively known as the Williamsburg canals.

## FARRAN'S POINT CANAL.

Length of canal	14 mile
Number of locks	1
New lock	800 feet by 45 feet
Old lock	200 "
Total rise or lockage	3½ feet
Depth of water on sills of new lock	14 "
Depth of water on sills of old lock	9 "
Breadth of canal at bottom	90 "
Breadth of canal at water surface	154 "

From the head of the Cornwall canal to the foot of Farran's Point canal, the distance on the River St. Lawrence is five miles. The latter canal enables vessels ascending the river to avoid Farran's Point rapid, passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

#### RAPIDE PLAT CANAL.

Length of canal	3 <sub>3</sub> miles
Number of locks	
Dimensions of locks	270 feet by 45 feet
Total rise or lockage	11½ feet
Depth of water on sills	14 "
Breadth of canal at bottom	80 "
Breadth of canal at water surface	152 "

The old lift-lock, 200 feet by 45, is also available, with nine feet of water on mitre sills.

From the head of Farran's Point canal to the foot of Rapide Plat canal, there is a navigable stretch of 10½ miles. The canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

#### GALOPS CANAL.

Length of canal	$7\frac{1}{3}$ miles
Dimensions of locks, one of which is a guard-lock	1-800 by 45 1-270 by 45 1-285 by 45
Total rise or lockage	15½ feet 14 "
Breadth of canal at bottom	80 "

From the head of Rapide Plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. The canal enables vessels to overcome the rapids at Pointe aux Iroquois, Port Cardinal and the Galops.

#### MURRAY CANAL.

Length between eastern and western piers	5½ miles
Breadth at bottom	80 feet
Breadth at water surface	120 "
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:

#### WELLAND CANAL.

Main line from Port Dalhousie, I	se Ontario, to Por	t Colborne, Lake Erie.
----------------------------------	--------------------	------------------------

	Old Line.	Enlarged or New Line.
Length of canal	$27\frac{1}{2}$ miles.	$26\frac{3}{4}$ miles.
Pairs of guard-gates (formerly 3)		1
Number of looks ) guard	1	1
Number of locks.   guard	26	25
Dimensions 1 (tidal) 230 x 1 lock 200 x 44 1 lock 200 x 44 24 locks 150 x 4	$   \left.\begin{array}{c}     45 \\     5 \\     5 \\     45   \end{array}\right\}   \left.\begin{array}{c}     270 \\     \vdots   \end{array} $	feet x 45 feet.
Total rise or lockage 3	263 feet.	326¾ feet.
Depth of water on sills	101 "	14 "

## WELLAND RIVER BRANCHES.

Length of canal—				
Port Robinson	Chit to	Dinon	Walland	

Fort Robinson Cut to River Welland	2,622 feet.
From the canal at Welland to the river, via lock at	
Aquednet	300 "
Chippewa Cut to River Niagara	
Number of locks—one at Aqueduct and one at Port	
Robinson	2
Dimensions of locks	150 by $26\frac{1}{2}$ feet.
Total lockage from the canal at Welland down to	
River Welland	10 feet.
Depth of water on sills	9 feet 10 inches.

#### GRAND RIVER FEEDER.

Length of canal	21 miles.
Number of locks	2
Dimensions of locks	1 of 150 by 26½ ft. 1 of 200 by 45 ft.
Total rise or lockage	7 to 8 feet. 9 feet.

# PORT MAITLAND BRANCH.

Length of canal	1¾ miles
Number of locks	1
Dimensions of locks	
Depth of water on sills	$7\frac{1}{2}$ feet.
Total rise or lockage	7 to S feet.

The Welland canal has two entrances from Lake Ontario, at Port Dalhonsie, one for the old, the other for the new canal.

From Port Dalhonsie to Allanburg, 113 miles, there are two distinct lines of canal in operation, the old line and the cularged or new line.

From Allanburg to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

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 the Sault canal, a distance of about 580 miles. From the Sault the distance through Lake Superior to Port Arthur is 274 miles, and to Duluth 397 miles.

#### SAULT STE. MARIE CANAL.

Length of canal, between the extreme ends of the	
entrance piers	11/30 miles or 7,472 feet.
Number of locks	1
Dimensions of locks	900 feet by 60 feet at
water level; width at lock bottom, 59 fcet.	
Depth of water on sills (at lowest known water	
level	19 feet 3 inches.
Total rise or lockage (mean)	19 feet.
Breadth of canal at bottom	141 feet 8 inches.
Breadth at surface of water	150 feet.

This canal has been constructed through St. Mary's island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior.

## MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine canal, the navigation section of the lower River Ottawa, and the Ottawa canals, to the city of Ottawa; thence by the River Rideau and the Rideau canal to Kingston, on Lake Ontario—a total distance of 245§ miles.

After leaving the Lachine canal the works constructed to overcome difficulties of navigation are:—

#### OTTAWA RIVER CANALS.

The Ste. Anne's Lock.

Carillon Canal.

Grenville Canal.

#### RIDEAU CANAL.

The total lockage (not including that of the Lachine canal) is 509 feet (345 rise, 164 fall) and the number of locks is 55.

The following table exhibits the intermediate distances from Montreal harbour:-

Sections of Navigation.	Intermediate Distance.	Total Distance from Montreal.
	Miles.	Miles.
The Lachine Canal. From Lachine to Ste. Anne's Lock Ste. Anne's Lock and piers. Ste. Anne's Lock to Carillon Canal The Carillon Canal. From Carillon to Grenville Canal The Grenville Canal From the Grenville Canal to entrance of Rideau Navigation Rideau Navigation ending at Kingston	$27\frac{1}{3}$	23\\\\ 23\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

# STE. ANNE'S LOCK.

	New Lock.	Old Lock.
Length of canal	a mile.	⅓ mile.
Number of locks	1	1
Dimensions of locks	$200 \times 45$ feet.	190 x 45 fect.
Total rise or lockage	3 feet.	3 feet.
Depth on sills	9 "	6 "

This work, with guide piers above and below, surmounts the St. Anne's rapids between Ile Perret 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.

# THE CARILLON CANAL.

Length of canal	3 mile.
Number of locks	2
Dimensions of locks	200 x 45 feet.
Total rise or lockage	16 feet.
Depth of water on sills	9 "
Breadth of canal at bottom	
Breadth of canal at water surface	

This canal overcomes the Carillon rapids.

From Ste. Anne's lock to the foot of the Carillon canal is a navigable stretch of 27 miles, through the Lake of Two Mountains and the River Ottawa.

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.

# GRENVILLE CANAL.

Length of canal	5¾ miles.
Number of locks	5
Dimensions of locks	200 x 45 feet.
Total rise or lockage	43¾ feet.
Depth of water on sills	
Breadth of canal at bottom	
Breadth of canal at surface of water	

This canal, by which the Long Sault rapids are avoided, are about 56 miles below the city of Ottawa, up to which point the River Ottawa affords unimpeded navigation.

#### RIDEAU NAVIGATION.

The Rideau system connects the River Ottawa, at the city of Ottawa, with the eastern end of Lake Ontario, at Kingston.

	100- 11
Length of navigation	126¼ miles.
Number of locks from Ottawa to Kingston }	33 ascending.
Number of locks from Ottawa to Kingston	14 descending.
Total lockage $457\frac{1}{2}$ {292\frac{1}{4} nise and} 165\frac{1}{4} fall. {	at high water.
Dimensions of locks	134 x 33 feet.
Depth of water on sills	5 feet.
Navigation depth through the several reaches	5 "
Breadth of canal reaches at bottom	54 feet in rock. 60 feet in earth
Breadth of canal at surface of water	S0 feet in earth.

#### PERTH BRANCH.

Length of canal	7 miles.
Number of locks	
Dimensions of locks	134 feet x 33 feet.
Total rise or lockage	
Depth of water on sills	
Length of dam	
Breadth of canal at surface of water	
7 11 4	40 " in rock.
Breadth of canal at bottom	60 " in clay.

The Perth branch of the Rideau canal affords communication between Beveridge's bay, on Lake Rideau, and the town of Perth.

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, suplied by the Wolf lake system.

3. The southwest descending level to Kingston, supplied by the Mud lake system, discharging into Lake Rideau.

The southwest descending level to Kingston, supplied by the Mud lake system, formerly known as the Devil lake system, discharging into Lake Opinicon.

Lake Opinicon receives the waters of Buck lake and Rock lake.

All these waters on the descending level, supplemented by those of Lake Loughboro', flow to 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.

#### RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the Rivers St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours lock to the basin at Chambly; thence, by the Chambly canal, to St. Johns, and down the River Richelieu to Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached. The following table shows the distances between Sorel and New York:—

Sections of Navigation.	Intermediate Distance.	Total Distances.
Sorel to St. Ours Lock St. Ours Lock to Chambly Canal Chambly Canal Chambly Canal Chambly Canal Chambly Canal to boundary line Boundary line to Champlain Canal Champlain Canal to junction with Eric Canal Eric Canal from junction to Albany Albany to New York	Miles.  14 32 12 23 111 66 7 146	Miles.  14 46 58 81 192 258 265 411

Number of locks

#### ST. OURS LOCK AND DAM.

Length	<sup>1</sup> / <sub>8</sub> mile.
Number of locks	1
Dimensions of lock	200 feet by 45 feet.
Total rise or lockage	5 feet.
Depth of water on sills	7 "
Length of dam in western channel	

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.

## CHAMBLY CANAL.

Trumber of focus	*
Dimensions of locks—	
Guard lock No. 1 at St. Johns Lift lock No. 2	122 feet ) 901
Lift lock No. 2	124 " From 222
T:f+ 1l-a N 0 4 F C	110 %   10 21 1001
Lift locks Nos. 7, 8, 9 combined.	120
Total rise or lockage	14
Depth of water on sills	
Breadth of canal at bottom	
Breadth of canal at 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.

#### 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 the present condition, are efficient only for local use. By various works this local use has been extended, and by others, now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Treut, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course, as originally contemplated and modified, is as follows:-

Through the River Trent, Rice Lake, the River Otonabee and Lakes Clear, Stony, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe. The route from Lake Simcoe to Georgian Bay, Lake Huron has not yet been determined.

The full execution of the scheme, commenced by the Imperial government in 1837, was deferred. By certain works, however, below specified, sections of these waters have been made practicable for navigation, and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon lake south, affords communication with the town of Lindsay, and, through Lake Scugog, to Port Perry, a distance of 180 miles from Trenton.

The following table gives the distance of navigable and unnavigable portions:-

1. From Trenton, on Bay of Quinte, to Rice lake, at present being improved to give 8 feet 4 inches on lock sills, and 9 feet in reaches.........

57 miles.

Of this distance, from Healy Falls to Hastings, a distance of about twenty miles is already navigable for 6 feet draught.

2. From lower end of Rice lake to Gamebridge on Lake Simcoe, navigable with a minimum depth of 6 feet.. 121 miles.

3. Across Lake Simcoe to Narrows near Orillia, navigable with minimum depth of 6 fect.........

4. Narrows to Washago, on Lake Couchiching, navigable with minimum depth of 6 fcet......

From the main line of the canal in Sturgeon lake near Sturgeon point, approximutely 144 miles from Trenton, a branch runs through Lindsay to Port Perry via the Scugog river and lake, a distance of about 36 miles. South of Lindsay navigation is limited to about 4 feet draught. A new concrete lock and dam are now under construction at Lindsay.

The all-river route from Trenton, on the Bay of Quinté, to Rice lake was fully decided upon by the government during the session of 1907, and the work of construction was begun that fall. The improvement is carried out on the principle of damming the river at suitable points by means of dams, and connecting the pools thus created by means of locks. The locks on this division will be 175 feet long, 33 feet wide, with 8 feet 4 inches of water on the sills. In the reaches there will be a minimum depth of 9 feet of water. For the purpose of construction, this division of 57 miles has been divided into seven sections, five of which are under contract. Rice lake is 369 feet above low water level of Lake Ontario, which height will probably be overcome by 18 locks.

The works by which the Trent navigation has been improved to date comprise short canals with locks at Hastings; Peterborough; Peterborough to Lakefield 7 locks, one being a hydraulic lift; Young's Point, Burleigh Falls, Lovesick, Buckhorn, Bobcaygeon, Fenelon Falls, Rosedale, and six locks between Balsam and Simcoe lakes, one being a hydraulic lift.

Also dams at Healy Falls, Hastings, Peterborough, Peterborough to Lakefield, 6; Young's Point, Burleigh, Lovesick, Buckhorn, Bobcaygeon, Fenelon Falls, Rosedale an I three between Balsam and Simcoe lakes.

Bridges have also been built at many of the locks and at other places.

At Healy Falls, about 37 miles from Trenton, a timber dam maintains six feet navigation to Hastings, a distance of about 14 miles.

At Hastings is a masonry lock and a timber dam which maintain navigation on the Trent river, Ricc lake and the Otonabee river to Peterborough, a distance of about 36 miles.

At Peterborough, 87 miles from Trenton, is a masonry lock and a concrete dam which maintain navigation through Little lake to lock No. 6 of the Peterborough-Lakefield Division, a distance of about three-quarters of a mile.

From Peterborough to Lakefield, navigation is maintained on the Otonabee river by a series of concrete locks and timber dams as follows:-

Leaving Little lake through lock No. 6, in a distance of about half a mile, the hydraulic lift lock is reached, where there is a lift of 65 feet into a reach which extends to lock No. 5, about five miles from Pcterborough, the last mile only of this reach being in the river; from here to Lakefield, locks 5, 4, 3, 2 and 1, with their respective dams, give navigation to Lakefield, about ten miles from Peterborough, or 97 from Trenton, and thence on five miles further to Young's Point.

At Young's Point, a masonry lock and timber dam maintains navigation through Clear and Stony lakes to Burleigh, a distance of about nine miles.

At Burleigh, a masonry lock of two lifts and timber dam maintains navigation

through Lovesick lake, about two miles, to Lovesick.

At Lovesick, a masonry lock and timber dam maintains navigation through Deer bay for about five miles to Buckhorn.

At Buckhorn, a masonry lock and new concrete dam maintain navigation for about 16½ miles through Buckhorn and Pigeon lakes to Bobcaygeon, 135 miles from Trenton.

At Bobcaygeon, a masonry lock and two dams, one being recently rebuilt of concrete and the other a timber one, maintain navigation through Sturgeon lake and Fenelon river, a distance of about 14½ miles to Fenelon Falls.

At Fenelon Falls is a short canal, a masonry lock of two lifts and a timber dam which maintain navigation across Cameron lakes to Rosedale, a distance of about 3½ miles, to a new concrete lock of the same dimensions as those of the Ontario-Rice Lake Division. This new lock will be placed in commission in the spring of 1910.

At Rosedale, the new concrete lock, and the dam which will be built in the summer of 1910 will maintain navigation on Balsam lake, the summit level of the canal, which extends from Rosedale to the hydraulic lock at Kirkfield, a distance of twelve miles; half of this distance is through a canal connecting Balsam lake with the lock, which is about 165 miles from Trenton.

At Rosedale, there is at present an old wooden lock and dam which maintain navigation on the summit level, the route being about a mile longer than via the new lock.

At the Kirkfield hydraulic lock is a drop from the summit level of 50.44 feet. From this point to Gamebridge on Lake Simcoe, 178 miles from Trenton, the route consists of canal and river reaches maintained by damming the Talbot river. There are five new concrete locks numbered 1, 2, 3, 4 and 5, with concrete dams at Nos. 1, 2 and 3.

From Cooks bay on Lake Sincoe, 28½ miles from Gamebridge, on the main line, the Holland river is being improved for six feet navigation, so as to afford communicatation with Newmarket 13½ miles from the lake, or 220 miles from Trenton.

The following is a list of locks now in use, with their dimensions, in order of location, from Hastings to Gamebridge on Lake Simcoe.

1 GEORGE V., A. 1911

			Length be- tween Hollow Quoins.	Width.	Depth on Sill.	Lift.
			Ft.	Ft.	Ft.	Ft.
1 1	lock	at Hastings	134	33	6	9
1	11	at Peterborough	134	33	6	9
1	11	No. 6, Peterborough-Lakefield Divlsion	142	33	6	12
1	11	at Peterborough, hydraulic lift lock No. 1	140	33	6	65
1	11	No. 5, Peterborough—Lakefield Division	142	33	6	14
1	11	No. 4, " " " " " " " " " " " " " " " " " "	142	33	6	12
1	17	No. 3, " " " " " " " " " " " " " " " " " "	142	33	6	12
1	11	No. 2, 11 11	142	33 33	6	10 16
1	11	No. 1, " " " at Young's Point	$\frac{142}{134}$	33	6	6
1	11	at loungs rount	134			
2	T†	at Burleigh, each $11\frac{1}{2}$ feet	150	33	6	23
1	11	at Lovesick	134	33	6	4
1	11	at Buckhorn.	134	33	6	9
1	11	at Bobcaygeon	134	33	6	7
2	11	at Bobcaygeon at Fencion Falls, each 12 feet $\begin{cases} U_{pper} \\ L_{ower} \end{cases}$	$\frac{134}{150}$	33	6	24
1	11	at Rosedale	175	33	8 4 in.	4
1	11	at Rosedale	140	33	6	50:41
1	11	No. 1, Simcoe—Balsam Lake Division	142	33	6	21
1	11	No. 2, " " " " " " " " " " " " " " " " " "	142	33	6	14
1	11	No. 3, 11 11 11	142	33	6	14
1	11	No. 4, 0 0 0	142	33	6	14
1	11	No. 5, " " " " " "	142	33	6	11
24 1	11	at Lindsay, Seugog Branch	142	33	6	6.5

# ST. PETER'S CANAL, CAPE BRETON.

Length of canal	About 2,400 feet.
Breadth at water line	55 feet.
Lock	1 tidal lock, 4 pairs of gates.
Dimensions	
Depth of water on sills	18 feet at lowest water.
Depth through canal	19 feet.
Extreme rise and fall of tide in St. Peters hav	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.

# PART IX

# RAILWAY SUBSIDIES



# RAILWAY SUBSIDIES

The following are the several Railway Subsidy Acts passed since and including the year 1906, being the only Acts in force at the close of the fiscal year 1909-10 (March 31, 1910).

For previous Subsidy Acts, see annual report of 1908-09.

#### 1906

# ACT, 6 EDWARD VII, CAP. 43, 1906.

(Assented to 13th July, 1906.)

1. The Governor in Council may grant a subsidy of \$3,200 per mile towards the construction of each of the undermentioned lines of railway (not exceeding in any one case the number of miles hereinafter respectively stated) which shall not cost more on the average than \$15,000 per mile for the mileage subsidized, and towards the construction of each of the said lines of railway not exceeding the mileage hereinafter stated, which shall cost more on the average than \$15,000 per mile for the mileage subsidized, a further subsidy beyond the sum of \$3,200 per mile of fifty per cent on so much of the average cost of the mileage subsidized as is in excess of \$15,000 per mile, such subsidy not exceeding in the whole the sum of \$6,400 per mile:—

To the Manitoulin and North Shore Railway Company (or to the Canada Central Railway Company, with the consent of the Manitoulin and North Shore Railway Company, and subject to the approval of the Governor in Council), for the follow-

in lines of Railway:-

(a) From Little Current thence crossing the Canadian Pacific railway, at or near Stanley, and thence to Sudbury, not exceeding 64 miles.

(b) From a point on the said line of railway, between Little Current and Sudbury, westerly towards the Algoma Central and Hudson bay railway, not exceeding 100 miles; and

(c) From a point at or near Sudbury northerly, not exceeding 30 miles; the said subsidies being granted in lieu of the subsidies of 64 and 130 miles, granted by chapter 8 of 1900, section 2, item 6, as amended by section 5 of chapter 7 of 1901, and chapter

7 of 1901, and section 2, item 14, respectively.

To the Algoma Central and Hudson Bay Railway Company for a line of railway from Sault Ste. Marie to a point on the Canadian Pacific railway between White River and Dalton stations in the District of Algoma, not exceeding 200 miles, and for a line of railway from Michipicoten Harbour, Lake Superior, towards the main line of the Canadian Pacific railway not exceeding 25 miles; in lieu of the subsidies of 40, 50 and 135 miles granted by chapter 7 of 1899, section 2, item 23. chapter 8 of 1900, section 2, item 4 and chapter 7 of 1901, section 2. item 20. respectively.

To the Lotbinière and Megantic Railway Company to extend its railway southerly from a point at or near Lyster in Megantic county to or towards a point at or near Lime Ridge in the Township of Dudswell; in lieu of the subsidy granted

by chapter 57 of 1903, section 2, item 8, not exceeding 50 miles.

- For a line of railway from Lake Nominingue to La Livre, in lieu of subsidy granted by chapter 57 of 1903, section 2, item 44, not exceeding 35 miles.
- For a line of railway from a point on the Intercolonial railway at or near Dartmouth, in the County of Halifax, to Guysborough, in the County of Guysborough, with branch lines to a point on the Intercolonial railway at or near New Glasgow, in the county of Pictou, and also to Country Harbour, in the county of Guysborough, not exceeding in the whole 236 miles in lieu of subsidies of 116 and 120 miles granted by chapter 57 of 1903, section 2, items 19 and 63 respectively.

For a line of railway from Wellington to Union Bay, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 68, not exceeding 55 miles.

For a line of railway from a point at or near Sharbot lake or Bathrust Station, in the province of Ontario, or between those points via Lanark village to Carleton Place, in lieu of the subsidy granted by chapter 7 of 1901, section 2, item 17, not exceeding 41 miles.

For a line of railway from Cape Tourmente towards Murray Bay, in lieu of the subsidy granted by chapter 5 of 1892, not exceeding 20 miles.

To the Atlantic, Quebec and Western Railway Company, for a line of railway from Gaspé to a point at or near Causapscal on the Intercolonial railway and from that point to Edmundston, not exceeding 260 miles; and for a line of railway from Paspebiae to Gaspé as near the shore as praeticable, not exceeding 102 miles; in lieu of the subsidies granted by chapter 57 of 1903, section 2, item 51.

To the Nipigon Railway Company, for the following lines of railway:-

(a) From a point at or near Nipigon Station on the line of the Canadian Pacific railway to Nipigon lake, not exceeding 30 miles.

(b) From a point on Nipigon bay of Lake Superior to a point on the west of Lake Heleu on the line of the Nipigon railway, not exceeding 3½ miles.

(c) From a point on the line of the Nipigon railway at or near the crossing of the Fraser river, to a point on Lake Jesse, by way of Cameron's Falls, not exceeding 13 miles.

(d) From a point on the North Shore of Lake Nipigon northerly, not exceeding 45 miles;

The said subsidies to the said lines being granted in lieu of the subsidies granted by chapter 34 of 1904, section 2, item 3, not exceeding in the whole 80 miles.

For a line of railway from Quebec towards Seven Islands, including branches to Murray Bay and Baie St. Paul, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 48, not exceeding 200 miles.

For a line of railway from Roberval westward towards James bay, in lieu of the subsidies granted by chapter 57, of 1903, section 2, items 11 and 52, not exceeding 100 miles.

To the Quebec Central Railway Company for an extension of its line of railway from St. Francis to St. George not exceeding 9 miles; and for a line of railway from Scott Junction to the Quebec bridge, not exceeding 23 miles; in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 46.

To the Western Alberta Railway Company for a line of railway from a point on the United States boundary, west of range 21, northwesterly towards Anthracite, in the province of Alberta, in lieu of the subsidy granted by chapter 34 of 1904, section 2, item 11, not exceeding 50 miles.

To the Shediae and Coast Railway Company for a line of railway from Shediae to Shemogue and towards Cape Tormentine in Westmoreland county, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 17, not exceeding 38 miles.

For a line of railway from St. Constant in the county of Laprairie and Napierville, through St. Edouard, St. Cyprien and Lacolle to a point at or near the International boundary line on the Delaware and Hudson railway (Grand Trunk) in

lieu of the 19 and 12 mile subsidies granted by chapter 7 of 1899, section 2, item 10 and chapter 4 of 1894 respectively, not exceeding 28 miles.

To the Lake Superior, Long Lake and Albany Railway Company for a line of railway from Peninsula Harbour in a northerly direction, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 76, not exceeding 10 miles.

For a line of railway from Owen Sound in the province of Ontario to Meaford, in lien of the subsidy granted by chapter 57 of 1903, section 2, item 34, not exceeding 30

miles.

To the Kingston, Smith's Falls and Ottawa Railway Company for a line of railway from Kingston to Ottawa, being a revote of the subsidy granted by chapter 4 of

1897, not exceeding 101 miles.

To the Lotbinière and Megantic Railway Company, for a line of railway from a point on its line between Lyster and Lime Ridge, to a point at or near the bridge over the St. Lawrence at or near Quebec, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 45, not exceeding 30 miles.

For a line of railway from a point on the Quebee and Lake St. John railway, near the River Jeannotte to La Tuque, on the St. Maurice river, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 57, not exceeding 35 miles.

- To the Halifax and South Western Railway Company, for a line of railway from a point at or near Halifax, to a point at or near Barrington Passage, (except that part east of Bridgewater which formerly formed part of the line of the Central railway, in lieu of the 68, 77 and 35 miles of subsidies granted by chapter 57 of 1903, section 2, item 23 (a) and (b), and item 75, respectively, not exceeding 185 miles.
- To the Bay of Quinté Railway Company, for a line of railway from a point at or near the village of Tweed, thence northwesterly to a point at or near the village of Bannockburn, in the county of Hastings, being a revote in part of the subsidy granted by chapter 7 of 1899, section 2, item 45, and in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 37, not exceeding in all 20 miles.

For a line of railway from a point at or near Baptiste, easterly to a point at or near Renfrew, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 32,

not exceeding 75 miles.

- For a line of railway from the Station of Lae Bouchette, or from a point one mile east of the said station, on the Quebee and Lake St. John Railway, to St. André, in lieu of subsidy granted by chapter 57 of 1903, section 2, item 47, not exceeding 13 miles.
- For a line of railway from Debert Station, on the Intercolonial railway, to Debert coal mine, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 20, not exceeding 45 miles.
- For a line of railway from a point at or near Toulon, to a point on the Icelandie river, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 27, not exceeding 35 miles.
- To the Ontario, Northern and Temagami Railway Company (formerly the Temagami Railway Company), for a line of railway from a point at or near Sturgeon Falls, in a northwesterly direction, to a point on the westerly shore of Lake Temagami, in the District of Nipissing, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 36, not exceeding 50 miles.
- To the Quebee and Lake St. John Railway Company, for a line of railway from Roberval to the Government wharf at Lake St. John, in lien of the subsidy granted by chapter 57 of 1903, section 2, item 40, not exceeding one mile.
- For a line of railway from Truro northerly towards Brule, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 64, not exceeding 34 miles.
- To the Kootenay Central Railway Company, for a line of railway from Golden towards the International boundary line, via Windermere and Fort Steele, and 20—22

crossing the Crow's Nest railway at or near Elko, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 6, not exceeding 186 miles.

To the Brockvile, Westport and Sault Ste. Marie Railway Company, 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 regranted by chapter 5 of 1892; the whole not exceeding \$86,800, being a revote of the subsidy granted by chapter 4 of 1894, and that the said subsidy or so much thereof as has heretofore been agreed upon by the terms of an agreement filed in the Department of Railways and Canals between said Brockville, Wesport and Sault Ste. Marie Railway Company and the creditors of said railway company, to be paid over to the said creditors or the legal representatives of said creditors as mentioned in said agreement.

For a line of railway from Jonquieres to La Baic des Ha Ha, iu lieu of subsidy granted by chapter 57 of 1903, section 2, item 7, not exceeding 20 miles.

For a liue of railway from Ste. Rose via the east side of Lake Ainslie to or towards Orangedale on the Intercolonial railway, not exceeding 34 miles; and for a line of railway from a point on the Intercolonial railway at or near Mines Road station to the wharf at Caribou Cove not exceeding four miles; in lien of the subsidy granted by chapter 57 of 1903, section 2, items 18 and 62.

For a line of railway from a point at or near Wolfville on the Dominion Atlantic railway to the government Pier at the Basin of Minas, not exceeding one mile, in lien of the subsidy granted by chapter 57 of 1903, section 2, item 25.

To the Great Northern railway of Cauada for a liue of railway in exteusion of its railway from a point at or near Arundel to a point in the municipality of the United Townships of Preston and Hartwell, not exceeding 30 miles; and for a line of railway connecting its Montford and Gatineau line with the main line at St. Jerome, not exceeding 22 miles; in lieu of the subsidies granted to the Montford and Gatineau Colonization Railway Company by items 6 and 41 of section 2 of chapter 57 of 1903.

To the Great Northern railway of Canada, for a line of railway from, at or near Garneau Junction to or towards the Quebec bridge, not exceeding 70 miles, in lieu of the subsidy granted by item 74 of section 2, of chapter 57 of 1903.

For a line of railway from a point at or near St. Agathe des Monts Station towards the township of Howard, in the county of Argenteuil, passing near Lakes St. Joseph and Ste. Marie, in a southerly direction, not exceeding 15 miles; and for a line of railway between a point in the parish of St. Andrews, in the county of Argenteuil, and a point in the parish of St. Laurent, in the county of Jacques Cartier, passing through the parishes of St. Placide, St. Eustache and St. Martin, not exceeding 38 miles; in lieu of the subsidies granted by chapter 34 of 1904, items 8 and 9 of section 2, not exceeding in the whole 53 miles.

To the Kettle River Valley Railway Company for a line of railway from Grand Forks to a point 50 miles up the North Fork of Kettle River, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 67, not exceeding 50 miles.

- To the Ottawa, Northern and Western Railway for a line of railway from Aylmer to a point of junction with the Interprovincial bridge approach in the city of Hull (except that portion thereof beginning at a point of junction with the line of the Hull Electric railway in the city of Hull and terminating at a point on the main line of the Canadian Pacific railway at the east end of its Hull station yard) not exceeding nine miles, in lieu of the subsidy granted by item 12 of section 2 of chapter 7, of 1899, and by the first portion of item 13 of section 2 of chapter 57 of 1903.
- To the Toronto, Lindsay and Pembroke Railway Company, for a line of railway from Golden lake to Bancroft, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 3, not exceeding 51 miles.

To the Interprovincial and James Bay Railway Company, for a line of railway from the Lake Temiskaming at the present terminus of the Canadian Pacific railway in a northerly direction, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 42, not exceeding 50 miles.

For a line of railway from Waltham station to Ferguson Point, in the county of Pontiac, in licu of the subsidy granted by chapter 57 of 1903, section 2, item 43,

not exceeding 20 milos.

To the Matane and Gaspé Railway Company, for a line of railway from a point at or near St. Octave, on the Intercolonial railway, to Matane, in lieu of the subsidy

granted by chapter 57 of 1903, section 2, item 54, not exceeding 30 miles.

For a line of railway from the village of Haliburton, via the the village of Whitney, towards the town of Mattawa, Ontario, in lieu of the subsidies granted by chapter 7 of 1899, section 2, item 25, and chapter 8 of 1900, section 2, item 9, not exceeding 60 miles.

For a line of railway from Dawson to Stewart river, passing at or near Grand Forks, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 71, not exceed-

ing 84 miles.

- 2. That unless the context otherwise requires, the expression 'cost' means the actual, necessary and reasonable cost, and shall include the amount expended upon any bridge up to and not exceeding \$25,000, forming part of the line of railway susidized not otherwise receiving any bonus, but shall not include the cost of equipping the railway, nor the cost of terminals, nor the cost of right of way of the railway in any city or incorporated town; and such actual, necessary and reasonable cost shall be determined by the Governor in Council, upon the recommendation of the Minister of Railways and Canals, and upon the report of the Chief Engineer of the Department of Railways and Canals, certifying that he has made or caused to be made an inspection of the line of railway for which payment of subsidy is asked, and careful inquiry into the cost thereof, and that in his opinion the amount upon which the subsidy is claimed is reasonable, and does not exceed the true, actual and proper cost of the construction of such railway.
- 3. That the subsidies to be authorized towards the construction of any railway shall be payable out of the Consolidated Revenue Fund of Canada, and may, unless otherwise expressly provided herein, at the option of the Governor in Council, on the report of the Minister of Railways and Canals, be paid as follows:—

(a) upon the completion of the work subsidized; or

- (b) by instalments, on the completion of each ten-mile section of the railway, in the proportion which the cost of such completed section bears to that of the whole work undertaken; or
- (c) upon the progress estimates on the certificate of the Chief Engineer of the Department of Railways and Canals, that, in his opinion, having regard to the whole work undertaken and the aid granted, the progress made justifies the payment of a sum not less than thirty thousand dollars; or

(d) with respect to (b) and (c), part one way, part the other.

4. That the subsidies to be authorized to be granted to companies named shall, if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as establish to the satisfaction of the Governor in Council 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, 1906, and completed within a reasonable time, not to exceed four years from the said first day of August, to be fixed by the Governor in Council, and shall also be constructed according to descriptions, conditions and specifications approved by the Governor in Council on the report of the Minister of Railways and Canals, and specified in each case in a contract between the company and the said Minister, which

contract the Minister, with the approval of the Governor in Council is hereby empowered to make. The location also of such subsidized lines shall be subject to the approval of the Governor in Council.

- 5. That the granting of such subsidies, and the receipt thereof by the respective companies, shall be subject to the condition that the Board of Railway Comissioners for Canada may at all times provide and secure to other companies such running powers, traffic arrangements and other rights, as will afford to all railways connecting with the railways so subsidized, reasonable and proper facilities in exercising such running powers, fair and reasonable traffic arrangements with connecting companies, and equal mileage rates betwen all such connecting railways; and the said Board shall have absolute control, at all times, over the rates and tolls to be levied and taken by any of the companies, or upon any of the railways so subsidized: Provided always that any decision of the said Board made under this section may be at any time varied, changed, or rescinded by the Governor in Council as he deems just and proper.
- 6. That every company so receiving a subsidy, its successors and assigns, and any person or company controlling or operating the railway or portion of railway so subsidized, shall each year furnish to the Government of Canada, transportation for men, supplies, materials and mails, over the portion of the lines in respect of which it has received such subsidy, and whenever required, shall furnish mail cars properly equipped for such mail service; and such transportation and service shall be performed at such rates as are agreed upon between the Minister of the Department of the Government for which such service is being performed, and the company performing it, and in case of disagreement, then at such rates as are approved by the Board of Railway Commissioners for Canada; and in or towards payment for such charges the Government of Canada shall be credited by the company with a sum equal to three per cent per annum on the amount of the subsidy so received by the company.
- 7. That as respects all railways for which subsidies are granted, the company at any time owning or operating any of the railways shall, when required, produce and exhibit to the Minister of Railways and Canals, or any person appointed by him, all books, accounts and vonchers, showing the cost of constructing the railway or bridge, the cost of operating it, and the carnings thereof.
- S. That the Governor in Council may make it a condition of the grant of the subsidies herein provided, that the company shall lay its road with new steel rails, made in Canada, if they are procurable in Canada of suitable quality, npon terms as favourable as other rails can be obtained, of which the Minister of Railways and Canals shall be the jndge.
- 9. That whenever a contract has been duly entered into with a company for the construction of any line of railway so subsidized, the Minister of Railways and Canals, at the request of the company, and upon the report of the Chief Engineer of the Department of Railways and Canals, and his certificate that he has made careful examination of the surveys, plans and profiles of the whole line so contracted for, and has duly considered the physical characteristics of the country to be traversed and the means of transport available for construction, naming the reasonable and probable cost of construction, may, with the authorization of the Governor in Council, enter into a supplementary agreement, fixing definitely the maximum amount of the subsidy to be paid, based upon the said certificate of the Chief Engineer, and providing that the company shall be entitled to be paid, as the minimum, the ordinary subsidy of \$3,200 per mile, together with sixty per cent of the difference between the amount so fixed and the said \$3,200 per mile, if any; and the balance, forty per cent, shall be paid only on completion of the whole work subsidized, and in so far as the actual cost, as finally determined by the Governor in Council upon the recommendation of the Minister of Railways and Canals and upon the report and certificate of the said Chief Engineer, entitles the company thereto; Provided always:-

(a) that the estimated cost, as certified, is not less on the average, than \$18,000 per mile for the whole mileage subsidized;

(b) that no payment shall be made except upon a certificate of the Chief Engineer

that the work is done up to the standard specified in the company's contract;

(c) that in no case shall the subsidy exceed the sum of \$6,400 per mile.

#### 1907

# ACT 6-7 EDWARD VII., CHAP. 40.

(Assented to April 27, 1907.)

1. The Governor in Council may grant a subsidy of \$3,200 per mile towards the construction of each of the undermentioned lines of railway (not exceeding in any case the number of miles hereinafter respectively stated) which shall not cost more on the average than \$15,000 per mile for the mileage subsidized, and towards the construction of each of the said lines of railway, not exceeding the mileage hereinafter stated, which shall cost more on the average than \$15,000 per mile for the mileage subsidized, a further subsidy beyond the sum of \$3,200 per mile of fifty per cent on so much of the average cost of the mileage subsidized as is in excess of \$15,000 per mile, such subsidy not exceeding in the whole the sum of \$6.400 per mile:—

1. To the Central Ontario Railway, for an extension of its railway from a point at or near Bancroft to a point on the Canada Atlantic railway at or near Whitney, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 4; not exceeding 40 miles.

2. For a line of railway from Woodstock to the International Boundary, in lieu of of the subsidy granted by chapter 57 of 1903, section 2 item 15; not exceeding 26 miles.

3. For a line of railway from a point on the Canadiau Pacific railway at or near Welsford or Westfield, or between the said two points, to Gagetown, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 16; not exceeding 30 miles.

4. For a line of railway from Liverpool to Milton, Nova Scotia, in lieu of part of the subsidy granted by chapter 57 of 1903, section 2, item 23 (d); not exceeding 7

miles.

5. For a line of railway from Milton to Caledonia, Nova Scotia, in lieu of part of the subsidy granted by chapter 57 of 1903, section 2, item 23 (d); not exceeding 22 miles.

6. For a line of railway from Cheticamp to a point on the line already built between Broad Cove and Point Tupper, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 24; not exceeding 37 miles.

7. For a line of railway from a point on the Dominion Atlantic railway to the Government pier or wharf at Canning, in lieu of the subsidy granted by chapter 57 of

1903, section 2, item 25; not exceeding 1 mile.

8. To the Nicola, Kamloops and Similkameen Coal and Railway Company, for a line of railway from a point at or near Spence's Bridge, on the Canadian Pacific railway, to Nicola lake, in lieu of the subsidy granted by chapter 57 of 1903 section 2 item 26; not exceeding 47 miles.

9. To the Edmonton, Yukon and Pacific Railway Company, for a line of railway from the town of Strathcona to Edmonton and thence westerly towards Yellow Head Pass, in lieu of the subsidy granted by chapter 57 of 1903, section 2. item 28, not

exceeding 50 miles.

10. For a line of railway from Fredericton to Woodstock, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 29, not exceeding 59 miles.

11. For a line of railway from Hawkesbury, Ontario, to South Indian, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 30; not exceeding 35 miles.

12. To the Tilsonburg, LakeErie and Pacific Railway Company, for a line of railway from Woodstock northerly to a point on the Grand Trunk railway at Berlin, or from Ingersoll to Stratford, or to any point on the Grand Trunk railway between these places, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 31; not exceeding 35 miles.

13. To the Canadian Northern Ontario Railway Company, for a line of railway from Toronto, via the east side of Lake Simcoe, to a point at, near or beyond Sudbury, through Parry Sound, in lieu of the subsidy granted to the James Bay Railway Com-

pany by chapter 57 of 1903, section 2, item 39; not exceeding 265 miles.

14. For a brauch line from a point at or near the intersection of the Canadian Pacific railway and the Canadian Northern Quebec railway (formerly the Great Northern railway) between St. Philippe d'Argenteuil and Lachute, thence in a north-trly direction passing through the village of Brownsburg, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 49; not exceeding 4.2 miles.

15. To the Orford Mountain Railway Company, for the following lines of railway, namely:—from Bolton Line to Mansonville, 7.54 miles; from Mansonville to the International Boundary, 3.12 miles; from Windsor Mills to Brompton Falls, 8 miles; from Melbourne Road Crossing to Melbourne village, 3.50 miles; and from a point on its main line of railway to the south end of Bonella lake, 5 miles; in licu of the subsidies grauted by chapter 57 of 1903, section 2, item 50, but not exceeding in the whole 27 miles.

16. To the Canadian Northern Quebec Railway Company, for a line of railway from a point on its main line at or near L'Epiphanie, passing by way of the parish of St. Jacques de l'Achigan, to the village of Rawdon, in lieu of the subsidy granted to the Chateauguay and Northern Railway Company by chapter 57 of 1903, section 2, item 55; not exceeding 16 miles.

17. To the York and Carleton Railway Company, for a line of railway from its present terminus westerly, in the lieu of subsidy granted by chapter 57 of 1903, section

2, item 61; not exceeding 5 miles.

18. To the Midway and Vernon Railway Company, for a line of railway from Midway to Vernon, in lieu of the subsidy granted by ehapter 57 of 1903, section 2, item 69; not exceeding 150 miles.

19. For a line of railway from a point at or near the north end of Lake Megantic, thence along the said lake to a point on the International Boundary at or near Rivière Morte, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 78; not exceeding 19 miles.

20. For a line of railway from Wellington to or towards Union bay by way of Alberni, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 6; not

exceeding 55 miles.

- 21. For a line of railway from Ste. Rose (or from Chimney Corner Coal Mines to a point at or near Chimney Corner Cove), thence via the east side of Lake Ainslie to or towards a point on the Intercolonial railway at or near Orangedale, not exceeding 34 miles; and for a line of railway from a point on the Intercolonial railway between Orangedale and Point Tupper, to Caribou Cove, or Inhabitants bay or river, not exceeding 4 miles; in lieu of the subsidies granted by chapter 43 of 1906, section 1, item 34.
- 22. To the Klondike Mines Railway Company, for the following lines of railway, namely:—

(a) for a line of railway from Dawson to a point at or near Sulphur Spring, not exceeding 31 miles;

(b) for a line of railway from a point at or near Sulphur Spring to a point at or near the divide between Dominion and Flat creeks, not exceeding 45 miles; and

(c) for a line of railway from a point at or near the said divide to or towards the Stewart river, not exceeding 8 miles;

the whole in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 46.

23. For a line of railway from St. Peter's to Louisbourg, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 65; not exceeding 50 miles.

24. For a line of railway from Grandique Ferry to Arichat, Nova Scotia, being a revote of the subsidy granted by chapter 7 of 1901, section 2, item 15; not exceeding

8 miles.

25. For a line of railway from Connors, at the terminus of the Temiscouta railway, to a point on the boundary line between New Brunswick and Quebec at the foot of Beau lake, being a revote of part of the subsidy granted by chapter 7 of 1901, section 2, item 2; not exceeding 18 miles.

2. The Governor in Council may grant, towards the construction and completion of a railway bridge and approaches over the Nicolet river at Nicolet, in licu of the

subsidy granted by chapter 57 of 1903, section 3, item 1, a subsidy of \$15,000.

- 3. In this Act, unless the context otherwise requires, the expression 'cost' means the actual, necessary and reasonable cost, and sball include the amount expended upon any bridge, up to and not exceeding \$25,000, forming part of the line of railway subsidized not otherwise receiving any bonus, but shall not include the cost of equipping the railway, not the cost of terminals, nor the cost of right of way of the railway in any eity or incorporated town; and such actual, necessary and reasonable cost shall be determined by the Governor in Council, upon the recommendation of the Minister of Railways and Canals, and upon the report of the Chief Engineer of the Department of Railways and Cauals, certifying that he has made or caused to be made an inspection of the line of railway for which payment of subsidy is asked, and careful inquiry into the cost therof, and that in his opinion the amount upon which the subsidy is claimed is reasonable, and does not exceed the true, actual and proper cost of construction of such railway.
- 4. The subsidies hereby authorized towards the construction of any railway or bridge shall be payable out of the Consolidated Revenue Fund of Canada, and may, unless otherwise expressly provided in this Act, at the option of the Governor in Council, on the report of the Minister of Railways and Canals, be paid as follows:—

(a) Upon the completion of the work subsidized; or

- (b) By instalments, on the completion of each ten-mile section of the railway, in the proportion which the cost of such completed sections bears to that of the whole work undertaken: or
- (c) Upon the progress estimates on the certificate of the Chief Engineer of the Department of Railways and Canals that, in his opinion, having regard to the whole work undertaken and the aid granted, the progress made justifies the payment of a sum not less than thirty thousand dollars; or

(d) With respect to (b) and (c), part one way, part the other.

5. The subsidies hereinbefore authorized to be granted to companies named shall, if granted by the Governor in Council, be grauted to such companies respectively; the other subsidies may be granted to such companies as establish to the satisfaction of the Governor in Council their ability to construct and complete the said railways and bridge respectively; all the lines and the bridge 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, 1907, and completed within a reasonable time, not to exceed four years from the said first day of August, to be fixed by the Governor in Council, and shall also be constructed according to descriptions, conditions and specifications approved by the Governor in Council on the report of the Minister of Railways and Canals, and specified in each case in a contract between the Company and the said Minister, which contract the Minister, with the approval of the Governor in Council, is hereby empowered to make. The location also of such subsidized lines and bridge shall be subject to the approval of the Governor in Council.

- 6. The granting of such subsidies and the receipt thereof by the respective companies shall be subject to the condition that the Board of Railway Commissioners for Canada may at all times provide and secure to other companies such running powers, traffic arrangements and other rights as will afford to all railways connecting with the railways and bridge so subsidized reasonable and proper facilities in exercising such running powers, fair and reasonable traffic arrangements with connecting companies, and equal mileage rates between all such connecting railways; and the said Board shall have absolute control, at all times, over the rates and tolls to be levied and taken by any of the companies, or upon any of the railways and bridge hereby subsidized: Provided always that any decision of the said Board made under this section may be at any time varied, changed or rescinded by the Governor in Council, as he deems just and proper.
- 7. Every company receiving a subsidy under this Act, its successors and assigns, and any person or company controlling or operating the railway or portion of railway subsidized under this Act, shall each year furnish to the Government of Canada transportation for men, supplies, materials and mails over the portion of the lines in respect of which it has received such subsidy, and, whenever required, shall furnish mail cars properly equipped for such mail service; and such transportation and service shall be performed at such rates as are agreed upon between the Minister of the department of the Government for which such service is being performed, and the company performing it, and, in case of disagreement, then at such rates as are approved by the Board of Railway Commissioners for Canada; and in or towards payment for such charges the Government of Canada shall be credited by the company with a sum equal to three per cent per annum on the amount of subsidy received by the company under this Act.
- 8. As respects all railways and the bridge for which subsidies are granted by this Act, the company at any time owning or operating any of the railways or the bridge shall, when required, produce and exhibit to the Minister of Railways and Canals, or any person appointed by him, all books, accounts and vouchers showing the cost of constructing the railway or bridge, the cost of operating it, and the earnings thereof.
- 9. The Governor in Council may make it a condition of the grant of the subsidies herein provided that the company shall lay the railway with new steel rails and fastenings made in Canada and shall purehase all materials and supplies required for the construction of the railway and bridge, and the rolling stock for the first equipment of the railway, from Canadian producers, if such rails, fastenings, materials, supplies and equipment are procurable in Canada of suitable quality and upon terms as favourable as elsewhere, of which the Minister of Railways and Canals shall be the judge.
- 10. Whenever a contract has been duly entered into with a company for the construction of any line of railway hereby subsidized, the Minister of Railways and Canals, at the request of the company, and upon the report of the Chief Engineer of the Department of Railways and Canals, and his certificate that he has made careful examination of the surveys, plaus and profile of the whole line so contracted for, and has duly considered the physical characteristics of the country to be traversed and the means of transport available for construction, naming the reasonable and probable cost of such construction, may, with the authorization of the Governor in Council, enter into a supplementary agreement, fixing definitely the maximum amount of the susidy to be paid, based upon the said certificate of the Chief Engineer, and providing that the company shall be entitled to be paid, as the minimum, the ordinary subsidy of \$3,200 per mile, together with sixty per cent of the difference between the amount so fixed and the said \$3,200 per mile, if any; and the balance, forty per eent, shall be paid only no completion of the whole work subsidized, and in so far as the actual cost, as finally determined by the Governor in Council upon the recommendation of the Minister of Railways and Canals, and upon the report and certificate of the said Chief Engineer, entitles the company thereto: Provided always—

(a) that the estimated cost, as certified, is not less on the average than \$18,000 per mile for the whole mileage subsidized;

(b) that no payment shall be made except upon a certificate of the Chief Engineer that the work done is up to the standard specified in the company's contract;

(c) that in no case shall the subsidy exceed the sum of \$6,400 per mile.

#### 1908

# ACT 7-8 EDWARD VII., CAP. 63, 1908.

(Assented to 20th July, 1908.)

1. The Governor in Council may grant a subsidy of \$3,200 per mile towards the construction of each of the undermentioned lines of railway (not exceeding in any case the number of miles hereinafter respectively stated) which shall not cost more on the average than \$15,000 per mile of the mileage subsidized, and towards the construction of each of the said lines of railway, not exceeding the mileage hereinafter stated, which shall cost more on the average than \$15,000 per mile for the mileage subsidized, a further subsidy beyond the sum of \$3,200 per mile of fifty per cent on so much of the average cost of the mileage subsidized as is in excess of \$15,000 per mile, such subsidy not exceeding in the whole the sum of \$6,400 per mile:—

To the Kettle River Valley Railway Company, for a line of railway from a point at or near Grand Forks to a point fifty miles up the North Fork and East or West Fork of the North Fork of Kettle river, in lieu of the subsidy granted by chapter 43 of

1906, section 1. item 39; not exceeding 50 miles.

For a line of railway from Owen Sound, in the province of Ontario, to Meaford, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 18; not exceeding 30 miles.

For a line of railway from Sharbot lake or Bathurst station, in the province of Ontario, or between these points, via Lanark village, to Carleton Place, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 7; not exceeding 41 miles.

To the Nipigon Railway Company, for the following lines of railway:-

(a) from a point at or near Nipigon Station on the line of the Canadian Paeific railway to Nipigon lake; not exceeding 30 miles;

(b) from a point on Nipigon bay of Lake Superior to a point on the west of Lake

Helen on the line of the Nipigon railway; not exceeding 31 miles;

(c) from a point on the line of the Nipigon railway at or near the crossing of the Fraser river to a point on Lake Jesse, by way of Cameron's Falls; not exceeding 1½ miles;

(d) from a point on the north shore of Lake Nipigon northerly; not exceeding 45 miles.

The said subsidies to the said lines being granted in lieu of the subsidies granted by chapter 43 of 1906, section 1, item 10; not exceeding in all 80 miles.

- To the Manitoulin and North Shore Railway Company (or to the Canada Central Railway Company with the consent of the Manitoulin and North Shore Railway Company, and subject to the approval of the Governor in Council), for the following lines of railway:—
- (a) from a point on the said line of railway, between Little Current and Sudbury, westerly towards the Algoma Cenral and Hudson Bay railway; not exceeding 100 miles;

- (b) from Little Current thence crossing the Canadian Pacific railway, at or near Stanley, and thence to Sudbury; not exceeding 64 miles.
- (c) from a point at or near Sndbnry, northerly, not exceeding 30 miles; the said subsidies being granted in lieu of the subsidies granted by chapter 43 of 1906, section 1, item 1; not exceeding in all 194 miles.
- To the Ontario, Northern and Timagami Railway Company for a line of railway from a point at or near Sturgeon Falls, in a northwesterly direction, to a point on the westerly shore of Lake Timagami, in the district of Nipissing, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 28; not exceeding 50 miles.
- For a line of railway from a point at or near Baptiste, easterly to a point at or near Renfrew, in lien of the subsidy granted by chapter 43 of 1906, section 1, item 24; not exceeding 75 miles.
- To the Bracebridge and Trading Lake Railway Company, for a railway in Bracebridge, in Mnskoka, to a point at or near Baysville, Outario, in lieu of the subsidy granted by chapter 34 of 1904, section 2, item 1, for 15 miles; not exceeding 16 miles.
- To the Quebec and Lake St. John Railway Company, for a line of railway from Roberval westward towards James Bay, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 12; uot exceeding 100 miles.
- To the Matane and Gaspé Railway Company, for a line of railway from a point at or near Ste. Flavie, on the Intercolonial railway, to Matane, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 44, for 30 miles; not exceeding 38 miles.
- To the Canadian Northern Quebec Railway Company, for a line of railway from a point at or near Arnndel to a point in the municipality of the united townships of Preston and Hartwell, not exceeding 30 miles; and for a line of railway connecting its Montfort and Gatineau line with the main line at St. Jerome, not exceeding 15.2 miles; in lien of the subsidies granted to the Great Northern railway of Canada by chapter 43 of 1906, section 1, item 36, not exceeding in all 45.2 miles.
- To the Canadian Northern Quebec Railway Company, for a line of railway from, or from near, Garneau Junction to Quebec, with a branch to or towards the Quebec bridge, in lieu of the subsidy granted to the Great Northern railway of Canada by chapter 43 of 1906, section 1, item 37, for 70 miles; not exceeding 83 miles.
- To the Atlantic, Quebec and Western Railway Company, for a line of railway from a point at or near Causapascal, on the Intercolonial railway, to Edmundston, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 9, for a line between the points above mentioned; not exceeding 160 miles.
- For a line of railway from Yamaska to a point in the County of Lotbinière, in lieu of the subsidy granted by chapter 57 of 1903, section 2, item 12, not exceeding 70 miles; and for a line of railway from Mount Johnson to St. Gregoire Station, in lien of the subsidy granted to the United Counties Railway Company by chapter 7 of 1899, section 2, item 16, for one mile, not exceeding 1½ miles; and not exceeding in all 71½ miles.
- 'to the International Railway Company of New Brnnswick for a line of railway from the western end of the twenty miles of its railway, as already constructed from Campbellton, to a point on the St. John river between Grand Falls and Edmundston, in lieu of the subsidies granted by chapter 57 of 1903, section 2, items 14 and 59 respectively; not exceeding 90 miles.
- For a line of railway from Brazil lake, on the Dominion Atlantic railway, to Kemptville, Nova Scotia, in lien of the subsidy grauted by chapter 8 of 1900, section 2, item 30; not exceeding 11 miles.
- To the Inverness Railway and Coal Company, for a line of railway from Cheticamp to a point on the line already built between Broad Cove and Point Tupper, in lieu

- of the subsidy granted by ehapter 57, of 1903, section 2, item 24, for 37 miles; not exceeding 37 miles.
- To the Margaree Coal and Railway Company, for a line of railway from a point at or near Orangedale, on the Intercolonial railway, thence via the east side of Lake Ainslie and Ste. Rosa, to Chimney Corner Cove, not exceeding 46 miles; and from a point on the Intercolonial railway between Orangedale and Point Tupper to Caribou Cove on Inhabitant's bay or river, not exceeding 4 miles; in lieu of the subsidy granted by chapter 40 of 1907, section 1, item 21, for 38 miles; not exceeding in all 50 miles.
- To the Lotbinière and Megantic Railway Company, for a line of railway to extend its railway southerly from a point at or near Lyster, in Megantic county, to or towards a point at or near Line Ridge, in the township of Dudswell, not exceeding 50 miles; and for a line of railway from a point on its line in the township of Inverness, to a point at or near the bridge over the St. Lawrence at or near Quebee, not exceeding 30 miles; in lieu of the subsidies granted by chapter 43 of 1906, section 1, items 3 and 20, respectively; not exceeding in all 80 miles.

To the Cape Breton Railway Company, Limited, for a line of railway from Port Hawkesbury or Point Tupper, on the Strait of Canso, Nova Scotia, to St. Peter's, in lieu of the subsidy granted by chapter 7, of 1899, section 2, item 6, for 30 miles; not exceeding 31 miles.

For a line of railway from a point on the Intercolonal railway at or near Dartmouth, in the county of Halifax, to a point at or near Deans Settlement, in the county of Halifax, in lieu of the subsidy granted by chapter 43, of 1906, section 1, item 5; not exceeding 80 miles.

For a line of railway from a point at or near Deans Settlement, in the county of Halifax, to a point at or near Melrose, in the county of Guysborough, in lieu in part of the subsidy granted by chapter 43, of 1906, section 1, item 5; not exceeding 52 miles

For a line of railway from a point at or near New Glasgow, in the county of Pictou, to a point at or near Melrose, in the county of Guysborough, and from the said point at or near Melrose to Guysborough, in the county of Guysborough, with branch line to Country Harbour in the county of Guysborough, in lieu in part of the subsidy granted by chapter 43, of 1906, section 1, item 5; not exceeding in all 116 miles.

To the Ha Ha Bay Railway Company, for a line of railway from a point at or near Jonquières village to Baie de Ha Ha via Laterrières village, in lieu of the subsidy granted by chapter 43, of 1906, section 1, item 33, for 20 miles; not exceeding 24 miles.

To the Quebec and New Brunswick Railway Company, for a line of railway from Chaudiere Junction to a point at or near the International Boundary, in lieu of the subsidy granted by chapter 7 of 1901, section 2, item 2, for 45 miles; not exceeding 62 miles.

For a line of railway from a point at or near Ste. Agathe des Monts Station towards the township of Howard, in the county of Argenteuil, passing near Lake St. Joseph and St. Mary in a southerly direction, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 38; not exceeding 45 miles.

For a line of railway from Tusket Wedge to a point on the Halifax Southwestern railway at or near Riverdale Station; not exceeding 8 miles.

To the Halifax and Southwestern Railway Company, for a line of railway from Lunenburg to Bridgewater, via upper Lahave; not exceeding 12 miles.

To the Erie, London and Tilsonburg Railway Company, for a line of railway from Port Burwell to London; not exceeding 35 miles.

For a line of railway from a point at or near Centreville to Aylesford, or Kingston or Middleton, on the line of the Dominion Atlantic railway; not exceeding 35 miles.

- For a line of railway from a point on the Canadian Pacific railway at or near Plaster Rock to Riley Brook; not exceeding 28 miles.
- To the North Shore Railway Company, Limited (formerly the Beersville Coal and Railway Company), for a line of railway extending its present line from Beersville to Brown's Landing, not exceeding 7 miles; and for a branch line of railway from its main line to Mount Carlyle, not exceeding 2½ miles; not exceeding in all 9½ miles.
- To the York and Carleton Railway Company, for a line of railway from its present terminus to a point on the National Transcontinental railway; not exceeding 9 miles.
- To the Vancouver and Lulu Island Railway Company, for a line of railway from Eburn, on its main line, to New Westminster; not exceeding 9.65 miles.
- To the Esquimalt and Nanaimo Railway Company, for a line of railway from a point near French creek to the village of Sandwich, not exceeding 41 miles; and for a line of railway from the village of Sandwich to Campbell river, not exceeding 38 miles; not exceeding in all 79 miles.
- For a line of railway from MacLeod, via Cardston, towards a point on the Intercolonial Boundary west of range 21; not exceeding 45 miles.
- To the Southern Central Pacific Railway Company for a line of railway from a point at or near Cowley, in Alberta, to a point on Highwood river; not exceeding 50 miles.
- For a line of railway from a point at or near the town of Red Deer to a point on the North Saskatchewan river at or near Rocky Mountain House; not exceeding 70 miles.
- To the Canadian Pacific Railway Company, for a line of railway from Winnipeg Beach northerly to Gimli, not exceeding 9½ miles; and for a line from Gimli to Riverton, not exceeding 25 miles; not exceeding in all 34½ miles.
- To the Canadian Pacific Railway Company, for a line of railway from Moose Jaw; in a northwesterly direction; not exceeding 123 miles.
- To the Eastern Townships Railway Company, for a line of railway from the Intercolonial railway at St. Leonard's Junction to Dudswell; not exceeding 36 miles.
- To the Quebec, Montreal and Southern Railway Company, for a line of railway from Noyan Junction to the international boundary, not exceeding 8 miles; and for a line of railway from St. Lambert to St. Constant, not exceeding 15 miles; not exceeding in all 23 miles.
- To the Quebec and Lake St. John Railway Company, for the following lines of railway:—
  - (a) from Valcartier Station to St. Catherine; not exceeding 3.8 miles.
  - (b) from Valcartier Station towards Gosford; not exceeding 51 miles;
- (c) from the end of the 35th mile of the branch to La Tuque, on the River St. Maurice, to La Tuque Falls; not exceeding 5 miles.
  - (d) from La Tuque Falls to the mouth of the River Croche, not exceeding 5 miles;
- (e) from a point on La Tuque branch to the steamboat landing near La Tuque; not exceeding 1.6 miles;
  - not exceeding in all 20.9 miles.
- To the Quebec and Lake St. John Railway Company, for a line of railway from Herbertville to St. Joseph d'Alma; not exceeding 10 miles.
- To the St. Maurice Valley Railway Company, for a line of railway from Three Rivers to Grand Mere; not exceeding 28 miles.
- For a line of railway from a point on the main line of the Great Northern railway at or near St. Jerome to Charlemagne (Bout de l'Ile); not exceeding 22 miles.
- To the North Eastern Railway Company, for a line of railway from a point east of Lake Temiskaming, at or near Villemarie, easterly; not exceeding 25 miles.

To the Canadian Northern Quebec Railway Company, for a line of railway from Montreal to Hawkesbury; not exceeding 65 miles.

For a line of railway from Montreal to a point on the National Transcontinental railway; not exceeding 200 miles.

To the Quebec Central Railway Company, for an extension of its line of railway from St. George to or towards St. Justine; not exceeding 30 miles.

To the Maritime Coal, Railway any Power Company, for a line of railway from Chigneeto to a point on the Northumberland Straits, not exceeding 25 miles; and from Joggins Mines to a point on the Bay of Fundy, not exceeding 1 mile; not exceeding in all 26 miles.

For a line of railway from St. Peters, in the County of Richmond, by the south shore

of Bras d'Or lake to Sydney; not exceeding 60 miles.

To the Nipissing Central Railway Company, for a line of railway from a point on the Temiskaming and Northern Ontario railway, at or near the town of New Liskeard, to a point in the township of Guigues, in the province of Quebec; not exceeding 13 miles.

To the Vancouver Island and Eastern Railway Company, for a line of railway from a point on the Esquimalt and Nanaimo railway, near Campbell river, towards Fort George, on the line of the Grand Trunk Pacific railway; not exceeding 100 miles.

To the Vaneouver, Westminster and Yukon Railway Company, for a line of railway from Vaneouver towards Fort George, on the line of the Grand Trunk Pacific railway; not exceeding 100 miles.

For a line of railway around Death Rapid, British Columbia; not exceeding 4 miles.

To the Pacific Northern and Omineca Railway Company, for a line of railway from Kittimat to the Telkwa river; not exceeding 110 miles.

For a line of railway from Nicola to a point at or near Penticton; not exceeding 100 miles.

For a line of railway from Carmi to Pentieton; not exceeding 50 miles.

To the St. Mary and Western Ontario Railway Company, for a line of railway from Woodstock to Exeter; not exceeding 45 miles.

To the Algoma Central and Hudson Bay Railway Company, for a line of railway from a point on the Canadian Pacific railway northward towards the National Transcontinental railway; not exceeding 50 miles.

To the Grand Trunk Pacific Railway Company, for branch lines of railway from the line of the National Transcontinental railway to Port Arthur and Fort William; not exceeding 220 miles.

To the Lae Seul, Rat Portage and Keewatin Railway Company, for a line of railway from a point at or near Kenora to the line of the National Transcontinental railway; not exceeding 18 miles.

To the Burk's Falls and French River Railway Company, for a line of railway from Burk's Falls to French river; not exceeding 85 miles.

To the Thessalon and Northern Railway Company, for a line of railway from Thessalon, northerly; not exceeding 4 miles.

To the Canadian Northern Ontario Railway Company, for a line of railway from Sudbury Junetion to Hutton Mines; not exceeding 30 miles.

To the Esquimalt and Nanaimo Railway Company, for a line of railway from Cowiehan bay to Cowiehan lake; not exceeding 24 miles.

To the Canadian Northern Quebec Railway Company, for a line of railway from Hawkesbury to Ottawa; not exceeding 60 miles.

For the following lines of railway:—

(a) from Westfield to St. John, not exceeding 14 miles;

(b) from Gagetown to Fredericton, not exceeding 40 miles;

(c) from a point between Centreville and Woodstock to a point at or near Grand Falls, not exceeding 55 miles.

- To the Little Nation River Railway Company, for a line of railway from Papineauville on the Canadian Pacific railway towards Lake Nominigue; not exceeding 30 miles.
- To the L'Avenir and Melbourne Railway Company, for a line of railway from Melbourne to Drummondville; not exceeding 28 miles.
- To the Quebec and Lake St. John Railway Company, for a line of railway from Chicoutimi south or southeast; not exceeding 5 miles.
- 2. The Governor in Council may grant the subsidies hereinafter mentioned towards the construction and completion of the bridges also hereinafter mentioned, that is to say:—
- Towards the construction and completion of a railway bridge and approaches over the Nicolet river at Nicolet, in lieu of the subsidy granted by chapter 40 of 1907, section 2, \$15,000.
- To the Canadian Pacific Railway Company (lessees of the Calgary and Edmonton Railway Company), towards the construction and completion of a bridge over the Saskatchewan river connecting Strathcona and Edmonton, 15 per cent upon the amount expended thereon; not exceeding \$100,000.
- To the Quebec, Montreal and Southern Railway Company, towards the construction and completion of the following railway bridges:—
  - (a) bridge across the Gentilly river, \$15,000;
  - (b) bridge across the Becancour river, \$30,000;
  - (c) bridge across the Richelieu river, \$30,000;
- To the Atlantic, Quebec and Western Railway Company, towards the construction and completion of the 26 railway bridges on its line of railway from Paspebiac to Gaspé, payable upon the completion of the said line of railway betwen the said points, \$250,000.
- To the Interprovincial Railway Bridge Company of New Brunswick, towards the construction and completion of a railway bridge over the Restigouche river from Campbellton to Mission Point, not exceeding \$160,000.
- To the Vancouver, Westminster and Yukon Railway Company, towards the construction and completion of a railway across Burrard Inlet.
- 3. In this Act, unless the context otherwise requires, the expression 'cost' means the actual, necessary and reasonable cost, and shall include the amount expeuded upon any bridge, up to and not exceeding \$25,000, forming part of the line of railway subsidized not otherwise receiving any bonus, but shall not include the cost of equipping the railway, nor the cost of terminals, nor the cost of right of way of the railway in any city or incorporated town; and such actual, necessary and reasonable cost shall be determined by the Governor in Council, upon the recommendation of the Minister of Railways and Canals, and upon the report of the Chief Engineer of the Department of Railways and Canals, certifying that he has made or caused to be made an inspection of the line of railway for which payment of subsidy is asked, and careful inquiry into the cost thereof, and that in his opinion the amount upon which the subsidy is claimed is reasonable, and does not exceed the true, actual and proper cost of the construction of such railway.
- 4. The subsidies hereby authorized towards the construction of any railway or bridge shall be payable out of the Consolidated Revenue Fund of Canada, and may, unless otherwise expressly provided in this Act, at the option of the Governor in Council, on the report of the Minister of Railways and Canals, be paid as follows:—
  - (a) Upon the completion of the work subsidized; or
- (b) By instalments, on the completion of each ten-mile section of the railway, in the proportion which the cost of such completed section bears to that of the whole work undertaken; or
- (c) Upon the progress estimates on the certificate of the Chief Engineer of the Department of Railways and Canals that in his opinion, having regard to the whole

work undertaken and the aid grauted, the progress made justifies the payment of a sum not less than thirty thousand dollars; or

- (d) With respect to (b) and (c), part one way, part the other.
- 5. The subsidies hereinbefore authorized to be granted to companies named shall if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as establish to the satisfaction of the Governor in Council their ability to construct and complete the said railway and bridges respectively; all the lines and the bridge 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, 1908, and completed within a reasonable time, not to exceed four years from the said first day of August, to be fixed by the Governor in Council, and shall also be constructed according to descriptions, conditions and specifications approved by the Governor in Council on the report of the Minister of Railways and Canals, and specified in each case in a contract between the Company and the said Minister, which contract the Minister, with the approval of the Governor in Council, is hereby empowered to make. The location also of such susidized lines and bridges shall be subject to the approval of the Governor in Council.
- 6. The granting of such subsidies and the receipt thereof by the respective companies shall be subject to the condition that the Board of Railway Commissioners for Canada may at all times provide and secure to other companies such running powers, traffic arrangements and other rights as will afford to all railways connecting with the railway and bridges so subsidized reasonable and proper facilities in exercising such running power, fair and reasonable traffic arrangements with connecting companies, and equal mileage rates between all such connecting railways; and the said Board shall have absolute control, at all times, over the rates and tolls to be levied and taken by any of the companies, or upon any of the railways and bridges hereby subsidized; Provided always that any decision of the said Board made under this section may be at any time varied, changed or reseinded by the Governor in Council, as he deems just and proper.
- 7. Every company receiving a subsidy under this Act, its suecessors and assigns, and any person or company controlling or operating the railway or portion of railway subsidized under this Act, shall each year furnish to the Government of Canada transportation of men, supplies, materials and mails over the portion of the lines in respect of which it has received such subsidy, and, whenever required, shall furnish mail cars properly equipped for such mail service; and such transportation and service shall be performed at such rates as are agreed upon between the Minister of the department of the Government for which such service is being performed, and the company performing it, and, in case of disagreement, then at such rates as are approved by the Board of Railway Commissioners for Canada; and in or towards payment of such charges the Government of Canada shall be credited by the company with a sum equal to three per cent per annum on the amount of the subsidy received by the company under this Act.
- 8. As respects all railways and bridges for which subsidies are granted by this Act, the company at any time owning or operating any of the railways or bridges shall, when required, produce and exhibit to the Minister of Railways and Canals, or any person appointed by him, all books, accounts and vouchers showing the cost of constructing the railway or bridge, the cost of operating it, and the earnings thereof.
- 9. The Governor in Council may make it a condition of the grant of the subsidies herein provide that the company shall lay the railway with new steel rails and fastenings made in Canada and shall purchase all materials and supplies required for the construction of the railways and bridges, and the rolling stock for the first equipment of the railway, from Canadian producers, if such rails, fastenings, materials, supplies and equipment are procurable in Canada of suitable quality and upon terms as favourable as elsewhere, of which the Minister of Railawys and Canals shall be the judge.

1 GEORGE V., A. 1911

10. Whenever a contract has been duly entered into with a company for the construction of any line of railway hereby subsidized, the Minister of Railways and Canals, at the request of the Company, and upon the report of the Chief Engineer of the Department of Railways and Canals, and his certificate that he has made careful examination of the surveys, plans and profile of the whole line so contracted for, and has duly considered the physical characteristics of the country to be traversed and the means of construction, may, with the authorization of the Governor in Council, enter into a supplementary agreement, fixing definitely the maximum amount of the subsidy to be paid, based upon the said certificate of the Chief Engineer, and providing that the company shall be credited to be paid, as the minmium, the ordinary subsidy of \$3,200 per mile, together with sixty per cent of the difference between the amount so fixed and the said \$3.200 per mile, if any; and the balance, forty per cent, shall be paid only on completion of the whole work subsidized, and in so far as the actual cost, as finally determined by the Governor in Council upon the recommendation of the Minister of Railways and Canals, and upon the report and certificate of the said Cheif Engineer, entitles the company thereto: Provided always-

(a) that the estimated cost, as certified, is not less on the average than \$18,000 per

mile for the whole mileage subsidized;

(b) that no payment shall be made except upon a certificate of the Chief Engineer that the work done is up to the standard specified in the company's contract;

(c) that in no cases shall the subsidy exceed the sum of \$6,400 per mile.

### 1909

#### ACT 8-9 EDWARD VII., CHAP. 35.

(Assented to May 19. 1909).

1. Paragraph 6 of section 2 of chapter 63 of the statutes of 1908 is amended by adding at the end thereof the figures '\$200,000.'

#### 1910

## ACT 9-10 EDWARD VII., CHAP. 51.

(Assented to May 4 1910).

- 1. The Governor in Council may grant a subsidy of \$3,200 per mile towards the construction of each of the undermentioned lines of railway (not exceeding in any case the number of miles hereinafter respectively stated) which shall not cost more on the average than \$15,000 per mile for the mileage subsidized, and towards the construction of each of the said lines of railway, not exceeding the mileage hereinafter stated, which shall cost more on the average than \$15,000 per mile for the mileage subsidized, a further subsidy beyond the sum of \$3,200 per mile of fifty per cent on so much of the average cost of the mileage subsidized as is in excess of \$15,000 per mile, such subsidy not exceeding in the whole the sum of \$6,400 per mile:—
- 1. For a line of railway from Tusket Wedge to a point on the Halifax and South-western railway at or near Riverdale station, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 27; not exceeding 8 miles.

2. To the Halifax and Southwestern Railway Company, for a line of railway from Lunenburg to Bridgewater via Upper La Have, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 28; not exceeding 12 miles.

3. To the Inverness Railway and Coal Company, for a line of railway from Cheticamp to a point on the line already built between Broad Cove and Point Tupper, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 17; not exceeding 37

- 4. To the Margarec Coal and Railway Company, for a line of railway from a point at or near Orangedale, on the Intercolonial railway, thence by the east side of Lake Ainslie and Stc. Rosa, to Chimney Corner Cove, not exceeding 46 miles; and for a line of railway from a point on the Intercolonial railway between Orangedale and Point Tupper to Caribou Cove on Inhabitants bay or river, not exceeding 4 miles; in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 18; not exceeding in all 50 miles.
- 5. For a line of railway from a point on the Dominion Atlantic railway to the Government pier or wharf at Canning, in lieu of the subsidy granted by chapter 40 of 1907, section 1, item 7, not exceeding 1 mile.

6. For a line of railway from Brazil lake, on the Dominion Atlantic railway to Kemptville, Nova Scotia, in lieu of the subsidy granted by chapter 63 of 1908, section

1, item 16; not exceeding 11 miles.

7. To the Dominion Atlantic Railway Company, for a line of railway from Centreville on the Dominion Atlantic railway, westerly to Weston, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 30; not exceeding 15 miles.

8. For a line of railway from a point on the Intercolonial railway at or near Dartmouth, in the county of Halifax, to a point at or near Deans Settlement, in the county of Halifax, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 21: not exceeding 80 miles.

9. For a line of railway from a point at or near Deans settlement, in the county of Halifax, to a point at or near Melrose, in the county of Guysborough, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 22; not exceeding 52 miles.

10. For a line of railway from a point at or near New Glasgow, in the county of Pictou, to a point at or near Melrose, in the county of Guysborough, and from the said point at or near Melrose to Guysborough, in the county of Guysborough, with a branch line to Country Harbour, in the county of Guysborough, in lieu of the subidy granted by chapter 63 of 1908, section 1, item 23; not exceeding in all 116 miles.

11. To the International Railway Company of New Brunswick, for 34 miles of its railway, being the distance which the subsidy granted by chapter 63 of 1908, section

1, item 15, is short of covering.

12. For a line of railway from Grand Falls to St. John, New Brunswick, in lieu of the subsidies granted by chapter 40 of 1907, section 1, items 2, 3 and 10, respectively, and in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 69; not exceeding 228 miles.

13. For a line of railway from Connors, at the terminus of the Temiscouta railway to a point on the boundary line betwen New Brunswick and Quebec, at the foot of Beau lake, in lieu of the subsidy granted by chapter 40 of 1907, section 1, item 25; not exceeding 18 miles.

14. To the York and Carleton Railway Company, for a line of railway from its present terminus to a point on the National Transcontinental railway, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 33; not exceeding 9 miles.

15. For a line of railway from a point on the Canadian Pacific railway at or near Plaster Rock to Riley Rock, in lieu of the subsidy granted by chapter 63, of 1908, section 1, item 31; not exceeding 28 miles.

16. To the Atlantic, Quebec and Western Railway Company, for a line of railway from Paspebiac to Gaspé, as near the shore as practicable, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 9, for a line between the points above mentioned; not exceeding 102 miles.

- 17. To the Canadiau Northern Quebec Railway Company, for a line of railway from a point at or near Arundel to a point in the municipality of the united townships of Preston and Hartwell, in licu of the subsidy granted by chapter 63 of 1908, section 1, item 11, for a lien of railway between the points above mentioned; not exceeding 30 miles.
- 18. For a line of railway from Roberval westward towards James bay, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 9; not exceeding 100 miles.

19. To the Quebec and Lake St. John Railway Company, for the following lines

of railway:-

(a) from Valcartic station to St. Catherine, uot exceeding 3.8 miles; (b) from Valcartier station towards Gosford, not exceeding 53 miles;

- (c) from the end of the 35th mile of the branch to La Tuque, on the River St. Maurice, to La Tuque Falls, not exceeding 5 miles.
- (d) from La Tuque Falls to the mouth of the River Croche, not exceeding 5 miles;
- (e) from a point on the La Tuque branch to the steamboat landing near La Tuque, not exceeding 1.6 miles;
- (f) from Herbertville to St. Joseph d'Alma; not exceeding 10 miles;
- (g) from Chicoutimi south or southeast; not exceeding 5 miles; the said subsidies being granted in lieu of the subsidies granted by chapter 63 of 1908, section 1, items 43, 44 and 72, respectively; not exceeding 35.9 miles.
- 20. To the Quebec and New Brunswick Railway Company, for a line of railway from Chaudière Junction to a point at or near the International Boundary, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 25, not exceeding 62 miles.
- 21. To the Eastern Townships Railway Company, for a line of railway from the Intercolonial railway at St. Leonard's Junction to Dudswell, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 41; not exceeding 36 miles.

22. To the L'Avenir and Melbourne Railway Company, for a line of railway from Melbourne to Drummondville, in lieu of the subsidy granted by chapter 63 of 1908,

section 1, item 71; not exceeding 28 miles.

23. To the Lotbinière and Megantic Railway Company, for a line of railway to extend its railway southerly from a point at or near Lyster, in Megantic county, to or towards a point at or near Lime Ridge, in the township of Dudswell, not exceeding 50 miles; and for a line of railway from a point on its line in the township of Iuverness, to a point at or near the bridge over the St. Lawrence river at or near Quebec; not exceeding 30 miles; in lieu of the subsidies granted by chapter 63 of 1908, section 1, item 19; not exceeding in all 80 miles.

24. For a liue of railway from Joliette to or near Lake Mauuan, in lieu of the sub-

sidy granted by chapter 57 of 1903, section 2, item 9, not execeding 60 miles.

25. For a line of railway from St. Joachim towards Seven Islands, including branches to Murray Bay and Baie St. Paul, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 11; not exceeding 170 miles.

26. For a line of railway from a point at or near Ste. Agathe des Monts station towards the township of Howard, in the county of Argenteuil, passing near Lake St. Joseph and St. Mary, in a southerly direction, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 26; not exceeding 15 miles.

27. To the Ha Ha Bay Railway Company, for a line of railway from a point at or near Janquières village to Baie des Ha Ha via Laterrière village, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 24; not exceeding 24 miles.

28. To the St. Mary's and Western Ontario Railway Company, for a line of railway from Embro to Exeter, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 60; not exceeding 36 miles.

29. To the Manitoulin and North Shore Railway Company for the following lines of railway:—

(a) from a point on the said company's line of railway between Little Current and Sudbury, westerly towards Algoma Central and Hudson Bay railway; not exceeding 76 miles;

(b) from Little Current thence crossing the Canadian Pacific railway, at or near

Stanley, and thence to Sudbury; not exceeding 88 miles;

(c) from a point at or near Sudbury, northerly, not exceeding 30 miles; the said subsidies being granted in lieu of the subsidies granted by chapter 63 of 1908, section 1, item 51; not exceeding in all 194 miles.

30. To the Algoma Central and Hudson Bay Railway Company for the following

lines of railway:-

- (a) from Sault Ste. Marie to a point on the Canadian Pacific railway between White river and Dalton stations in the district of Algoma, not exceeding 200 miles;
- (b) from Michipicoten Harbour, Lake Superior, towards the main line of the Canadian Pacific railway, not exceeding 25 miles;
- (c) from a point on the Canadian Pacific railway, northerly, towards the National Transcontinental railway, not exceeding 50 miles;

the said subsidies being granted in lieu of the subsidies granted by chapter 43 of 1906, section 1, item 2, and chapter 63 of 1908, section 1, item 61; not exceeding in all 275 miles.

31. To the Bracebridge and Tradiug Lake Railway Company, for a liue of railway from Bracebridge, in Muskoka, to a point at or near Baysville, Ontario, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 8; not exceeding 16 miles.

32. To the Lac Seul, Rat Portage and Keewatin Railway Company, for a line of railway from a point at or near Kenora to the National Transcontinental railway, in lieu of subsidy granted by chapter 63 of 1908, section 1, item 63 for 18 miles; not exceeding 22 miles.

33. To the Canadian Northern Quebec Railway Company, for a line of railway from Montreal to Hawkesbury, in lieu of the subsidy granted by chapter 63 of 1908,

section 1, item 48; not exceeding 65 miles

34. To the Nipigon Railway Company for the following lines of railway:-

(a) from a point at or near Nipigon station on the line of the Canadian Pacific railway to Nipigin lake; not exceeding 30 miles;

(b) from a point on Nipigon bay of Lake Superior to a point on the west of Lake Helen on the line of the Nipigon railway; not exceeding 3; miles;

(c) from a point on the line of the Nipigon railway at or near the crossing of the French river to a point on Lake Jesse, by way of Cameron's Falls; not exceeding 1½ miles.

(d) from a point on the north shore of Lake Nipigon, northerly; not exceeding

45 miles;

the said subsidies being granted in licu of the subsidies granted by chapter 63 of 1908,

section 1, item 4; not exceeding in all 80 miles.

- 35. To the Ontario, Northern and Timagami Railway Company, for a line of railway from a point at or near Sturgeon Falls, in a northwesterly direction, to a point on the westerly shore of Lake Timagami, in the district of Nipissing, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 6; not exceeding 50 miles.
- 36. For a line of railway from Sharbot lake or Bathurst station, in the province of Ontario, or between these points, via Lanark village, to Carleton Place, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 3; not exceeding 41 miles.
- 37. To the Erie, London and Tillsonburg Railway Company, for a line of railway from Port Burwell to London, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 29; not exceeding 35 miles.

1 GEORGE V., A. 1911

38. To the Toronto, Lindsay and Pembroke Railway Company, for a line of railway from Golden lake to Bancroft, in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 41; not exceeding 51 miles.

39. To the Kingston, Smith's Falls and Ottawa Railway Company, for a line of railway from Kingston to Ottawa, in lieu of the subsidy granted by chapter 43 of 1906,

section 1, item 19; not exceeding 101 miles.

40. To the Pacific Northern and Omineca Railway Company, for a line of railway from Edmonton, northwesterly, to or towards the Pcace river, in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 51; not exceeding 110 miles.

41. To the Southern Central Pacific Railway Company, for the following lines of

railway:-

- (a) from a point two miles west of Pincher station on the Crow's Nest Pass branch of the Canadian Pacific railway, northeasterly; not exceeding 10 miles;
- (b) from a point two miles west of Pincher station on the Crow's Nest Pass branch of the Canadian Pacific railway, southwesterly; not exceeding 40 miles;

the said subsidies being granted in lieu of the subsidy granted by chapter 63 of 1908, section 1, item 37; not exceeding in all 50 miles.

42. To the Kettle River Valley Railway Company, for the following lines of railway:—

(a) from Midway to a junction near Merritt with the Nicola, Kamloops and Simil-

kameen railway; not exceeding 250 miles;
(b) from a point on the company's line of railway near Coldwater river to a point

on the Fraser river; not exceeding 50 miles; the said subsidies being granted in lieu of the subsidies granted by chapter 40 of 1907, section 1, item 18, and chapter 63 of 1908, section 1, items 58 and 59, respectively; not

exceeding in all 300 miles.

43. To the Kootenay Central Railway Company, for at line of railway from Golden towards the International Boundary via Windermere and Fort Steele, thence

crossing the Crow's Nest Pass railway, at or near Elko; in lieu of the subsidy granted by chapter 43 of 1906, section 1, item 31; not exceeding 186 miles.

44. To the Esquimalt and Nanaimo Railway Company, for a line of railway from a point on its main line of railway, at or near Duncan's to Cowichan lake, in lieu of the subsidy granted by chapter 63, of 1908, section 1, item 67; not exceeding 24 miles.

45. For a line of railway from Montreal to a point on the National Transcontinental railway, in lieu of subsidy granted by chapter 63 of 1908, section 1, item 49;

not exceeding 200 miles.

- 46. To the Little Nation River Railway Company, for a line of railway from Papineauville, on the Canadian Pacific railway, towards Lake Nomining, in lieu of subsidy granted by chapter 63 of 1908, section 1, item 70; not exceeding 30 miles.
- 2. In this Act, unless the context otherwise requires, the expression 'cost' means the actual, necessary and reasonable cost, and shall include the amount expended upon any bridge up to and not exceeding \$25,000, forming part of the line of railway subsidized not otherwise receiving any bonus, but shall not include the cost of equipping the railway nor the cost of terminals, nor the cost of right of way of the railway in any city or incorporated town; and such actual, necessary and reasonable cost shall be determined by the Governor in Council, upon the recommendation of the Minister of Railways and Canals, and upon the report of the chief engineer of the Department of Railways and Canals, certifying that he has made, or caused to be made, an inspection of the line of railway for which payment of subsidy is asked, and careful inquiry into the cost thereof, and that in his opionon the amount upon which the subsidy is claimed is reasonable, and does not exceed the true, actual and proper cost of construction of such railway.

3. The subsidies hereby authorized towards the construction of any railway shall be payable out of the Consolidated Revenue Fund of Canada, and may, unless otherwise expressly provided in this Act, at the option of the Governor in Council, on the report of the Minister of Railways and Canals, be paid as follows:—

(a) Upon completion of the work subsidized; or,

- (b) By instalments, on the completion of each ten-inile section of the railway, in the proportion which the cost of such completed section bears to that of the whole work undertaken; or,
- (c) Upon the progress estimates on the certificate of the chief engineer of the Department of Railways and Canals that in his opinion, having regard to the whole work undertaken and the aid granted, the progress made justifies the payment of a sum not less than thirty thousand dollars; or,

(d) With respect to (b) and (c), part one way, part the other.

- 4. The subsidies hereinbefore authorized to be granted to companies named shall, if granted by the Governor in Council, be granted to such companies respectively; the other subsidies may be granted to such companies as establish to the satisfaction of the Governor in Council 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, 1910, and completed within a reasonable time, not to exceed four years from the said first day of August, to be fixed by the Governor in Council, and shall also be constructed according to descriptions, conditions and specifications approved by the Governor in Council on the report of the Minister of Railways and Canals, and specified in each case in a contract between the company and the said Minister, which contract the Minister, with the approval of the Governor in Council, is hereby empowered to make. The location also of such subsidized lines shall be subject to the approval of the Governor in Council.
- 5. The granting of such subsidies and the receipt thereof by the respective companies shall be subject to the condition that the Board of Railway Commissioners for Canada may at all times provide and secure to other companies such running powers, traffic arrangements and other rights as will afford to all railways connecting with the railway so subsidized reasonable and proper facilities in exercising such running power, fair and reasonable traffic arrangements with connecting companies, and equal mileage rates between all such connecting railways; and the said Board shall have absolute control, at all times, over the rates and tolls to be levied and taken by any of the companies, or upon any of the railways hereby subsidized: Provided always that any decision of the said Board made under this section may be at any time varied, changed or rescinded by the Governor in Council, as he deems just and proper.
- 6. Every company receiving a subsidy under this Act, its successors and assigns, and any person or company controlling or operating the railway or portion of railway subsidized under this Act, shall each year furnish to the Government of Canada transportation for men, supplies, materials and mails over the portion of the lines in respect of which it has received such subsidy, and, whenever required, shall furnish mail cars properly equipped for such mail service; and such transportation and service shall be performed at such rates as are agreed upon between the Minister of the department of the government for which such service is being performed and the company performing it, and, in case of disagreement, then at such rates as are approved by the Board of Railway Commissioners for Canada; and in or towards payment for such charges the Government of Canada shall be credited by the company with a sum equal to three per cent per annum on the amount of the subsidy received by the company under this Act.
- 7. As respects all railways for which subsidies are granted by this Act, the company at any time owning or operating any of the railways shall, when required, produce and exhibit to the Minister of Railways and Canals, or any person appointed

1 GEORGE V., A. 1911

by him, all books, accounts and vouchers showing the cost of constructing the railway, the cost of operating it, and the earnings thereof.

8. The Governor in Council may make it a condition of the grant of the subsidies herein provided that the company shall lay the railway with new steel rails and fastenings made in Canada and shall purchase all materials and supplies required for the construction of the railway, and the rolling stock for the first equipment of the railway, from Canadian producers, if such rails, fastenings, materials, supplies and equipment are procurable in Canada of suitable quality and upon terms as favourable as else-

where, of which the Minister of Railways and Canals shall be the judge.

9. Whenever a contract has been duly entered into with a company for the construction of any line of railway hereby subsidized, the Minister of Railways and Canals, at the request of the company, and upon the report of the chief engineer of the Department of Railways and Canals, and his certificate that he has made careful examination of the surveys, plans and profile of the whole line so contracted for, and has duly considered the physical characteristics of the country to be traversed and the means of transport available for construction, naming the reasonable and probable cost of such construction, may, with the authorization of the Governor in Council. enter into a supplementary agreement, fixing definitely the maximum amount of the subsidy to be paid, based upon the said certificate of the chief engineer, and providing that the company shall be entitled to be paid, as the minimum, the ordinary subsidy of \$3,200 per mile, together with sixty per cent of the difference between the amount so fixed and the said \$3,200 per mile, if any; and the balance, forty per cent, shall be paid only on completion of the whole work subsidized, and in so far as the actual cost, as finally determined by the Governor in Council upon the recommendation of the Minister of Railways and Canals, and upon the report and certificate of the said chief engineer, entitles the company thereto: Provided always—

(a) that the estimated cost, as certified, is not less on the average than \$18,000 per

mile for the whole mileage subsidized;

(b) that no payment shall be made except upon a certificate of the chief engineer that the work done is up to the standard specified in the company's contract;

1

(c) that in no case shall the subsidy exceed the sum of \$6,400 per mile.



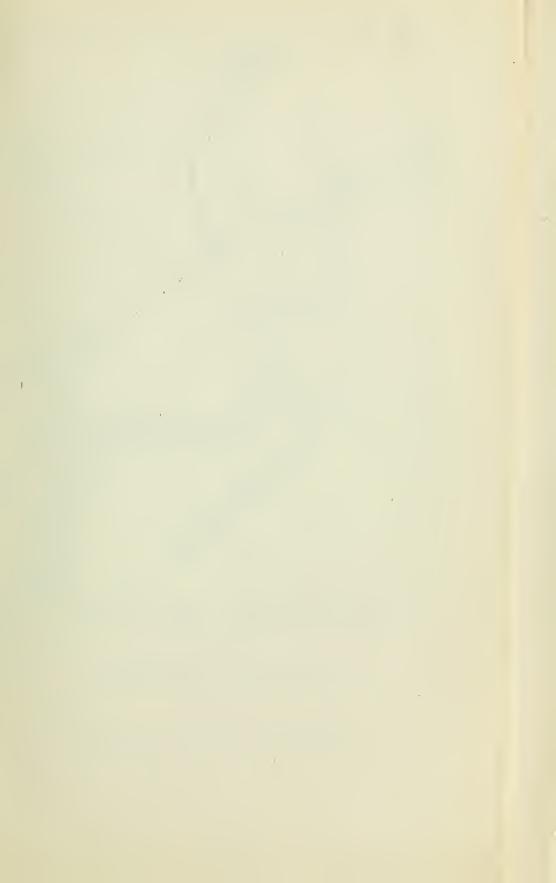






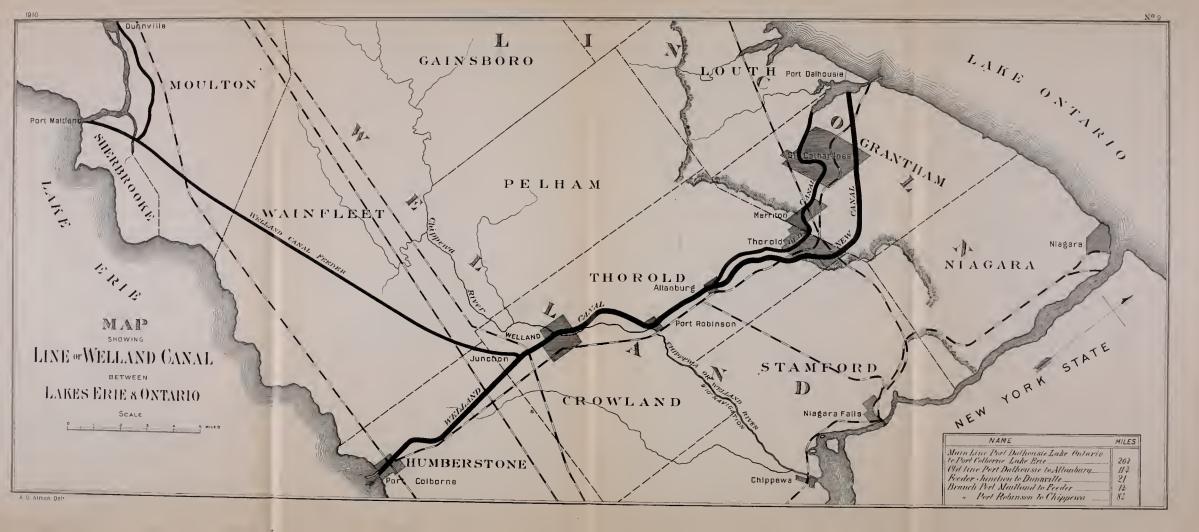


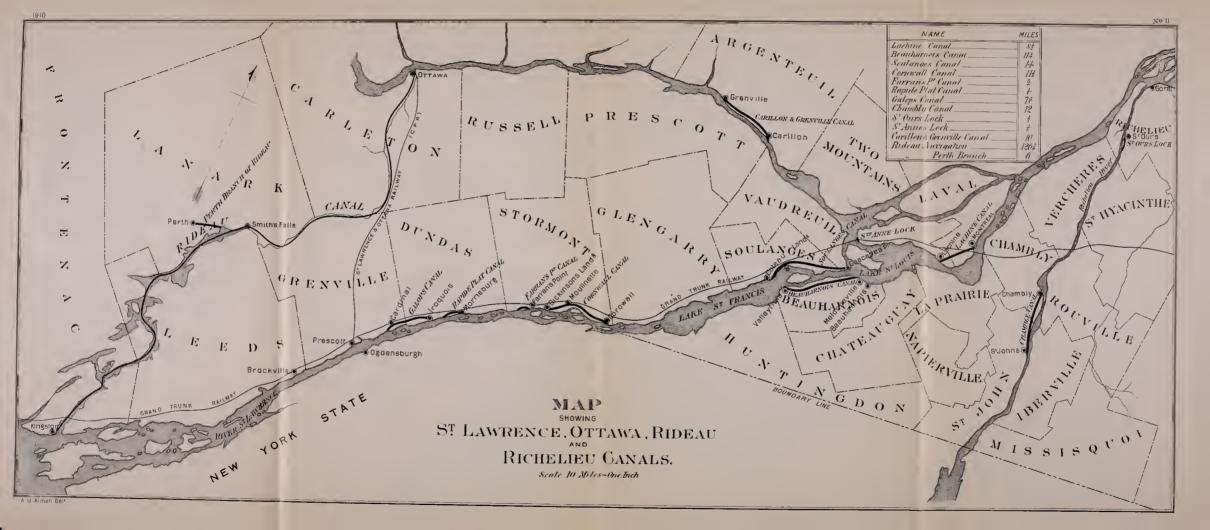


















# AL REPORT

OF THE

# ailways and Canals for 1910

# pany Deputy Minister's Report

parts of British Columbia and Alberta.

parts of British Columbia and Alberta.

d part of Saskatchewan.

ario and Manitoba.

ario and Quebec.

New Brunswick, Prince Edward Island and parts of Quebec.

l also St. Mary's Falls Canal, Mich., U.S.A.

between Lake Erie and Ontario.

irray Canal.

a, Rideau and Richelieu Canals.

328,71 CIRI,2 (1911, V.10. MAPS).

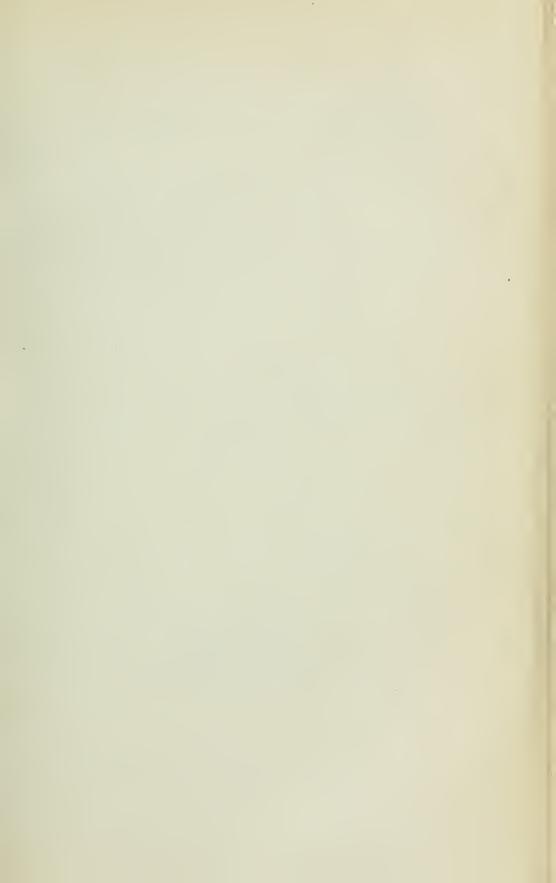
# ANNUAL REPORT

## OF THE

# Department of Railways and Canals for 1910

## Maps to accompany Deputy Minister's Report

- 1. General map of the Dominion.
- 2. Map showing Railways in the northern parts of British Columbia and Alberta.
- 3. Map showing Railways in the southern parts of British Columbia and Alberta.
- 4. Map showing Railways in Manitoba and part of Saskatchewan.
- 5. Map showing Railways in parts of Ontario and Manitoba.
- 6. Map showing Railways in parts of Ontario and Quebec.
- 7. Map showing Railways in Nova Scotia, New Brunswick, Prince Edward Island and parts of Quebec.
- 8. Map showing Canadian Ship Canal and also St. Mary's Falls Canal, Mich., U.S.A.
- 9. Map showing Line of Welland Canal between Lake Erie and Ontario.
- 10. Map showing Trent Navigation and Murray Canal.
- 11. Map showing the St. Lawrence, Ottawa, Rideau and Richelieu Canals.





# DEPARTMENT OF RAILWAYS AND CANALS

# CANAL STATISTICS

FOR THE

# SEASON OF NAVIGATION

1909

PRINTED BY ORDER OF FARLIAMENT



OTTAWA PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY 1910



To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom, and a Baronet; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, &c., &c., &c., Governor General of Canada.

MAY IT PLEASE YOUR EXCELLENCY,-

The undersigned has the honour to present to Your Excellency the report on Canal Statistics for the year ended December 31, 1909.

GEO. P. GRAHAM,

Minister of Railways and Canals.



To the Honourable George P. Graham,
Minister of Railways and Canals.

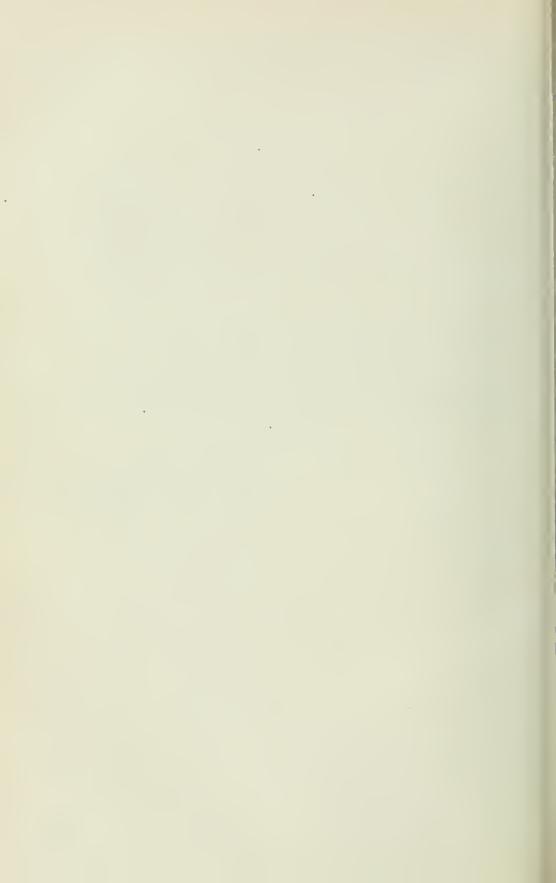
SIR,—I have the honour to submit the annual report of the Comptroller of Statistics in relation to the operations of the Canals of the Dominion for the year ended December 31, 1909.

I have the honour to be, Sir,

Your obedient servant,

A. W. CAMPBELL,

Deputy Minister of Railways and Canals.



### Office of the Comptroller of Statistics, February 7, 1910.

A. W. CAMPBELL, Esq.,

Deputy Minister of Railways and Canals.

Sie,—I have the honour to submit to you herewith Canal Statistics for the year ended December 31, 1909.

At the commencement of the scason of navigation a new form of ship's report was adopted. This schedule presents the advantages of being considerably shorter than that which had for many years been in use, and of conforming closely with the classification of commodities in force on the railways of both Canada and the United States.

The traffic of the canals in 1909 amounted to 33,720,748 tons, representing an

increase of 16,217,928 tons over 1908, or 92.6 per cent.

Of the total volume of business, 27,976,399 tons were classified as down, or east-bound; while 5,744,349 were entered as up, or westbound. There was for the year an increase of 14,739,171 tons in the former, and of 1.478,757 tons in the latter.

The net increase of 16,217,928 tons for the year 1909 was divided among the various canals as follows:—

	1908.	1909.	Increase.
Sault Ste. Marie	12,759,216	27,861,245	15,102,029
Welland.	1,703,453	2,025,951	322,498
St. Lawrence	2,009,102	2,410,629	401,527
Shambly	503,276	752,117	248,841
St. Peter's	72,015	79,850	7,835
Murray	25,901	102,291	76,390
Ittawa Lideau Trent	258,527 89,640 81,690	$\begin{array}{c} 336,939 \\ 91,774 \\ 59,952 \end{array}$	78,412 2,134

The aggregate of business through the canals of Canada during the year 1909 may be better comprehended by a comparison with the results for the preceding nine years. The figures are as follow:—

	· ·
1900	5,013,693 tons.
1901	5,665,259 "
1902	7,513,197 "
1903	9,203,817 "
1904	8,256,236
1905	9,371,744 "
1906	10,523,185
1907	20,543,639
1908	17,502,820 "
1909	33,720,748 "

Following is a comprehensive table, showing both the volume and direction of freight traffic for a series of years:—

STATEMENT of total Freight passed through the Canals for the following years:-

						7	Providence Saverage	Na Article			
Years.	From Canadian To Canadian Port	INADIAN FO N PORTS.	FROM CANADIAN TO TO UNITED STATES PO	CANADIAN TO STATES PORTS.	FROM UNITED TO TO UNITED STATES	FROM UNITED STATES TO TO STATES PORTS.	CANADIAN PORTS	Ports.	Tons	7.	Toral, Tors.
•	Up.	Down.	Up.	Down.	Up	Down.	.d.	Down.	Up.	Down.	Up and down.
	Tons.	Tons.	Tons.	Toms.	Tons.	Tons.	Tons.	Tons.			
1887 1888	336,648	1,154,424	138,692	202,563	214,407	192,528	86,374	428,357	713,519 789,310 855,529	2,006,997	2,720,516 2,761,597 3,113,896
1889	384,777	1,156,306	144,368	133,188	216,813	320,324	58,709	533,021	789,505	2,123,542	2 913,047
1891	327,120	1,155,247	103,814	135,787	248,188	302,983	47,396	481,301	789,528	2,242,208	3,031,736
1893	351,706	1,344,822	214,076	141,602	247,329	385,769	54,912 46,020	568,866	868,023 780,522	2,162,193	2,040,383
1895	264,824	1,070,046	286,191	91,177	362,637	3 536 054	62,285	590,140	975,937	2,360,141 6,123,281	*3,336,078 7,991,073
1897	275,587	1,713,274	268,700	187,960	669,112	1,369,314	108,787	968,203	1,322,216	7,238,751	8,560,967 6,618,475
1898	296,389	1,833,412	266,364	115,133	732,030	2,129,988	125,678	727,111	1,420,280	3,758,107	6,225,924
1900	312,201	1,632,915	270,033	201,231	507,204	1,801,696	177,715	682,065	1,294,173	4,371,086	5,665,259
1902	529,085	2,064,480	308,212	342,484	515,828 863,337	3,000,636	373,456	958,018	2,315,117	6,888,700	9,203,817
1504.	606,737	2,047,499	511,887	276,578	699,784	1,778,903	483,795	851,053	2,302,203	5,954,033	8,256,236
1905	736,976	2,252,514	649,365	234,089	991,508	3,595,256	482,230	997,385	3,339,770	7,183,415	10,523,185
1907	1,034,733	3,162,158	891,692	226,138	1,991,959	11,060,878	819,369	1,356,712	4,737,753	15,805,886	20,543,639
1909.	1,674,283	3,439,225	1,060,736	667,891	1,985,522	22,385,226	1,023,829	1,544,054	5,744,349	27,976,399	33,720,748

\* Sault Ste. Marie canal opened in August, 1895.

# STATEMENT of the Tonnage of Canadian and United States Vessels for the following years:-

# CANADIAN VESSELS.

SESSIONAL PAPER No. 20a

Number of .	Vessels.	\$17.5 \\ \$1.5 \\ \$2.5 \\ \$2.5 \\ \$3.5
Total.	Up & down.	2, 847, 952 2, 947, 952 3, 139, 532 3, 139, 532 3, 139, 532 4, 139, 532 4, 139, 401, 965 4, 139, 401, 965 4, 139, 101 4, 130, 130, 101 4, 130, 130, 101 6, 132, 133 6, 131, 101 6, 132, 133 6, 132, 133 6, 132, 133 6, 132, 133 6, 133, 133 6, 132, 133 6, 133, 133 6,
×	Down.	1,452,020 1,546,018 1,560,638 1,560,935 1,560,278 1,607,455 1,697,455 1,732,297 1,732,227 1,732,227 1,732,227 1,732,227 1,732,227 1,732,227 1,732,227 1,732,227 1,84,673 1,84,
Toxs	Up.	1,395,932 1,295,304 1,494,304 1,558,537 1,775,176 1,775,489 1,545,938 1,545,938 1,545,938 1,545,938 2,151,675 2,074,167 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,278,732 2,378,
ED STATES	Down.	221, 013 189,876 204,176 204,177 204,177 204,177 204,177 204,176 204,677 205,838 205,8
FROM UNITED STATES TO CANADIAN PORTS.	Up.	28, 778 28, 573 28, 573 11, 659 11, 65
NITED STATES TO STATES PORTS.	Down.	802 802 833 834 8361 10 8361 8361 8361 8361 8361 8361 8361 8361
FROM UNITED STATES UNITED STATES PORTS	Up.	1,071 1,252 1,252 1,560 1,166 1,177
CANADIAN TO TATES PORTS.	Down.	36,277 36,277 39,377 39,377 39,370 39,370 39,370 39,383 31,378 32,438 32,541 36,541 37,492 37,533 38,541 38,542 38,543 38
FROM CANAI TO TO UNITED STATES	Up.	162,554 128,284 128,131 129,478 170,186 170,186 215,383 215,785 215,785 215,785 215,785 2215,785 2215,785 2215,785 2215,785 2217,825 2318,773 2318 2318 2318 2318 2318 2318 2318 231
ANADIAN 10 N PORTS.	Down.	1.194,665 1,1267,892 1,267,892 1,267,892 1,257,168 1,460,307 1,165,683 1,420,342 1,420,342 1,587,231 1,681,340 1,587,221 1,587,221 1,587,221 1,997,886 2,031,774 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787 2,031,787
From Canadian To Canadian Ports	Up.	1,201,529 1,113,329 1,1314,127 1,314,127 1,514,249 1,514,346,349 1,514,737 1,615,952 1,615,952 1,014,167 1,014,167 2,061,258 2,061,258 2,726,135 2,726,135 2,726,135 2,726,135 2,726,135 3,335,187
Years.		1887 1888 1889 1890 1893 1895 1895 1900 1900 1905 1905 1906 1906 1906

STATEMENT of the Tonnage of Canadian and United States Vessels, for the following years:

TAITED STATES VESSEUS.

		10-11 EDWARD VII., A. 191
Number		88 4 4 8 8 8 4 4 4 4 4 4 4 4 6 6 6 6 6 6
Toral.	Up & Down.	566, 680 631, 777 830, 648 838, 116 878, 116 874, 779 886, 629 1, 228, 126 1, 228, 126 1, 228, 126 1, 228, 126 1, 228, 126 1, 228, 126 1, 238, 234 1, 236, 403 2, 482, 234 4, 086, 139 2, 482, 234 1, 236, 475 2, 483, 234 1, 686, 234 8, 656, 139 8, 656, 138 8, 656, 138 8, 656, 138 11, 664, 834 8, 621, 138 11, 645, 332 11, 645, 332 16, 459, 322
ž.	Down.	315,035 347,556 444,190 384,736 442,199 1513,811 14,475 683,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,438,885 1,837,665 1,
Toxk	d <sub>D</sub>	254, 645 284, 221 386, 458 386, 458 386, 458 385, 451 11, 596 11, 425, 471 11, 166, 115 11, 166, 115 11, 166, 115 11, 168, 116 11, 168, 168 11, 168, 168 11, 168 11, 168 11, 168 11, 168 11, 168 11, 168 11, 168 11,
go States Ports,	Down.	98,849 1114,613 1164,613 17,266 17,266 17,266 17,259 18,7749 18,7749 18,971 18,971 18,971 18,439 18,
Phon United States po Asamban Poiers,	Up.	2,4 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2
EP STATES PES PORTS.	Down.	156, 557 156, 567 156, 567 156
Phon United States 10 United States Pours	(Tp.	113,730 177,714 253,0714 253,0714 253,013 253,013 253,013 253,013 253,013 253,013 253,013 253,014 253,
PROM CANADIAN TO NITRED STATES PORTS.	Down,	99,99,99,99,99,99,99,99,99,99,99,99,99,
Prost Canadian To Using States Pol	=======================================	8, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25
NADIAN Portis,	Down.	1,2,3,3,4,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5
Pion Canadian 40 Canadian Poitis.	Up.	16,265 14,304 14,304 10,330 10,337 10,337 11,237 11,466 11,466 11,466 11,217 11,577 11
V KARS.		1887 1888 1888 1888 1889 1889 1899 1899

It will be observed that while 9,996 United States vessels carried 16,459,322 tons through the canals of Canada in 1909, it required 22,507 Canadian vessels to carry 7,811,578 tons. The explanation is found in the fact that the business of American vessels is confined almost wholly to the lakes, where large cargoes prevail, while many craft of small capacity pass through the canals east of the Welland. The record of trade for the past five years, however, would seem to warrant the conclusion that an increase is steadily taking place in the tonnage of Canadian vessels.

The statement following brings the capital expenditure on the Canals of the Dominion down to March 31, 1909. It must be understood, however, that the total shown is apart from the outlay by the Imperial Government on the Carillon and Grenville Canal, as to which the records were lost in the destruction by fire of the Ordnance

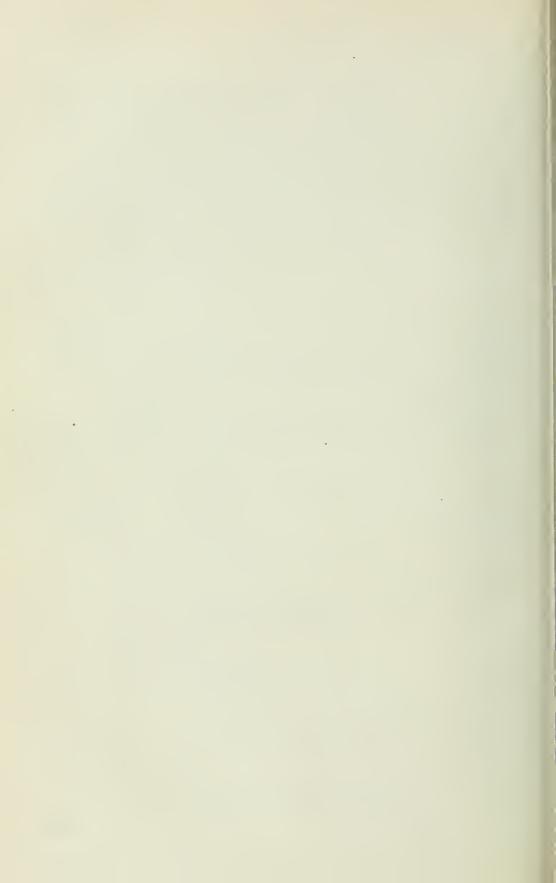
Office, Montreal, in 1852. The details are as follow:

Canal,	Construction.	Enlargement.	Total.
St. Peter's. Lachine. Beauharnois. St. Lawrence River and Canals. Lake St. Louis. Lake St. Francis Cornwall.  Williamsburg  Farran's Point Galops. Rapid Plat Williamsburg. Welland. Ste. Anne's  *Carillon and Grenville Culbute Rideau Saint Ours	\$ cts. 648,547 14 2,589,532 85 1,636,690 26 18,442 85 1,945,624 73 1,320,655 54 7,693,824 03 134,456 51 63,053 64 382,776 46 4,085,889 21 121,537 65	\$ cts. 9,570,566 95 3,415,023 38 298,176 11 75,966 71 5,289,052 87 877,090 57 6,118,927 32 2,158,242 00 10,696 26 20,644,791 99 1,035,759 12 4,119,039 32	\$ cts. 648,547 14 12,160,099 80 1,636,690 26 3,433,466 23 298,176 11 75,906 71 7,234,677 60  10,485,611 69 28,338,616 02 1,170,215 63 4,182,092 96 382,776 46 4,085,889 21 121,537 65
Chambly. Murray. Trent. Tay Saut Ste. Marie. Soulanges.	6,873,501 09 489,599 23 4,821,723 47 6,973,113 38		650,521 68 1,248,946 71 6,873,501 09 489,599 23 4,821,723 47 6,973,113 38
Total	41,685,129 41	53,626,579 62	94,311,859 03

Details of tonnage by canals and commodities will be found in the tables subjoined.

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

J. L. PAYNE, Comptroller of Statistics.



## CANAL STATISTICS FOR SEASON OF NAVIGATION, 1909.

### GRAIN PASSED DOWN WELLAND.

The quantity of barley, corn, oats, pease, rye and wheat passed down the Welland Canal, from ports west of Port Colborne for a period of twenty-eight years is as follows:—

QUANTITY PASSED DOWN TO MO	ONTREAL.	To Ports in Ontario.	Quantity from U.S. Port to U.S. Ports.
	Tons.	Tons.	Tons.
82	180,694		63,881
88	186,814	10,650	121,876
84	142,194	12,153	104,537
85	96,569	11,909	117,346
86	203,940	9,881	151,551
87	185,034	11,838	134,868
88	160,358	25,599	169,664
89	267,769	19,075	213,766
90	288,513	16,899	245,932
91	(295,509	6,805	202,710
$9\hat{2}$	261,954	8,942	201,540
93	501,806	25,555	222,958
94	273,651	16,699	203,979
95	231,491	32,096	133,823
96	461,049	73,386	160,372
97	* 560,254	53,257	157,756
98	519,532	31,279	144,612
99	332,746	40,197	68,011
00	244,661	17,525	84,589
01	151,566	13,732	83,370
02	208,215	22,787	81,164
03	351,936	29,062	111,828
04	198,246	23,711	102,523
05	341,431	42,061	129,270
06	404,935	33,351	176,119
07	635,573	42,032	163,295
08	756,141	38,142	135,172
09	652,742	40,238	129,587

<sup>\*</sup> 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; in 1895, 18,987 tons; in 1896, 77,355 tons; in 1897, 89,659 tons; in 1898, 40,257 tons; in 1899, 48,828 tons; in 1900, 38,403 tons; in 1901, 17,387 tons; in 1902, 34,060 tons; in 1903, 40,641 tons; none in 1904, 1905, 1906, 1907 nor 1908.

The quantity of barley, buckwheat, 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:—

During the last decade the quantity of agricultural products as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 244,661 tons in 1900 to 652,742 tons in 1909, and the quantity passed down the Welland Canal from United States ports to United States, has increased from 84,589 to 129,587 tons the same years.

		Tons.
For	1897 2	228,611
	1898 2	293,391
	1899	209,170
	1900 5	229,624
	1901 5	227,700
	1902 2	263,861
	1903 2	253,959
	1904 1	54,625
	1905 1	48,377
	1906	386,963
	1907	383,735
	1908 2	285,262
	1909	

The quantity of the same articles passed down the whole length of the St. Lawrence Canals to Montreal for the same period was:—

		Tons.
For	1897	604,200
	1898	575,097
	1899	372,291
	1900	295,928
	1901	203,316
	1902	242,225
	1903	400,057
	1904	220,076
	1905	375,630
	1906	449,673
	1907	684,697
	1908	776,374
	1909	652,742

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 Canal to Montreal, is as follows:—

For 1908	
Showing a decrease of	103,399

The quantity of grain and pease carried to Montreal via Canadian Pacific and Grand Trunk Railways is reported as follows:—

For	1908.	
	1909	•••••
	Showing a decrease of	

### TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston and Prescott for fifteen years is as follows:—

In Canadian vessels there were in-

				Tons.
1895, 123 cargoes,	with an aggregate	quantity	$ \text{of} \dots \dots$	136,617
1896, 196	II	11		227,912
1897, 180	11	11		229,265
1898, 166	It	It		
1899, 162	11	11		221,306
1900, 325	11	11		183,200
1901, 112	tt	11		132,558
1902, 131	11	11		175,514
1903, 170	11	18		218,840
1904, 115	11	М		174,121
1905, 167	H	11		239,418
1906, 205	11	11		
1907, 255	11	††		427,813
1908, 355	H	H		598,941
1909,	11	11		

In the United States vessels there were in-

				Tons.
1894, 84	cargoes, with an	aggregate quantity	of	106,236
1895, 56	11	11		73,987
1896, 158	tt	17		217,978
1897, 197	H	0		285,847
1898, 339	†I	H		464,852
1899, 167	11	††		
1900, 259	11	11		163,575
1901, 135	T†	£†		123,229
1902, 135	11	H.		136,652
1903, 219	H	11		
1904, 118	1†	H		
1905, 235	14	11		
1906, 178	11	H	,	
1907, 263	11	11		413,087
1908, 271	11	Ħ		
1909,	11	71		272,291

One hundred and sixty-two Canadian and 49 American vessels took cargoes of 343,733 tons through to Montreal intact in 1908; 87 Canadian and 9 American of 135,582 in 1907; 74 Canadian and 10 American of 108,734 tons in 1906; 96 Canadian and 18 American of 180,206 in 1905; 56 Canadian and 16 American of 116,095 tons in 1904; 56 Canadian and 18 American of 99,582 tons in 1903; 19 Canadian and 17 American of 34.804 tons in 1902; 23 Canadian and 2 American of 17,303 tons in 1904, 15 of 7,924 tons in 1900, 2 of 558 tons in 1899, 7 of 2,426 in 1898, 7 of 2,324 in 1897, 3 of 1,176 in 1896, 4 of 1,344 tons in 1905, 2 cargoes of 810 tons in 1894, none in 1893, 2 in 1892 of 924 tons, and 3 in 1891 of 1,441 tons. Three vessels lightened a portion of their cargoes in 1901, 9 in 1900, 11 in 1899, 25 in 1898, 11 in 1897, 16 in 1896, 6 in 1895, 19 in 1894, 34 in 1893, 25 in 1892, and 44 in 1891; 222 vessels discharged the whole of their cargoes at Kingston in 1901, 540 in 1900, 316 in 1899, 473 in 1898, 359 in 1897, 335 in 1896, 169 in 1895, 188 in 1894, 369 in 1893, 220 in 1892, and 293 in 1891.

The quantity of grain transhipped at Port Colborne in 1909 and the four previous years was as follows:—

Articles.	1905.	1906.	1907.	1908.	1909.
	Bush.	Bush.	Bush.	Bush.	Bush.
Wheat	104,027				2,686,963
Oats Barley Flax Seed		29,118 2,103	30,824	23 945	

### WELLAND CANAL.

The total quantity of freight passed on the Welland Canal during the season of 1909 was 2,025,951 tons; of this quantity 49,911 tons was way or local freight.

There were 1,383,862 tons of freight passed eastward, and 642,089 passed westward.

### East and West bound Through Freight.

The total quantity of through freight passed through the whole length of the Welland Canal during the season of 1909 was 1,976,040.

Of this quantity 1,335,023 tons were east bound and 641,017 west bound freight.

Of the east bound through freight, Canadian vessels carried 926,901 tons and United States vessels carried 408,122 tons; and of the west bound through freight Canadian vessels carried 320,793 tons and United States vessels carried 320,224 tons, or a total of 1,247,694 tons for Canadian and 728,346 tons for American vessels.

### ST. LAWRENCE CANALS

The total quantity of freight passed through these canals during 1909 was 2,410,629 tons; of this quantity 1,564,584 tons passed eastward and 846,045 passed westward.

### East and West bound Through Freight.

The total quantity of through freight was 1,727,564 tons; of this quantity 1,209,979 tons were east bound and 517,585 tons were west bound.

### Way Freight.

Of the total quantity of (way) or local freight 354,750 tons were east bound and 328,315 tons west bound freight.

THROUGH TRAFFIC BETWEEN MONTREAL AND PORTS ON LAKE ERIE, MICHIGAN, ETC.

The total quantity of through freights passed eastward from Lake Erie and westward from Montreal through the Welland and St. Lawrence canals, during fifteen years, was as follows:—

	Eastward, to Montreal. Tons.	Westward, from Montreal. Tons.
1895	266,659	10,555
1896		10,050
1897		4,542
1898	. 538,108	4,436
1899	. 354,933	5,991
1900	288,251	6,217
1901	. 184,420	13,714
1902	. 250,475	25,289
1903	390,786	100,699
1904	. 278,328	$71,\!512$
1905	. 448,704	72,482
1906. •		96,791
1907	. 789,167	1,281
1908	. 864,926	3,472
1909	. 925,005	191,510

THROUGH FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

The total quantity of through freight passed eastward and westward through the Welland Canal, from United States ports to United States ports, for a period of fifteen years, was as follows:—

	Eastward. Tons.	Westward. Tons.	Total. Tons.
1895	255,259	214,520	469,779
1896	385,695	267,518	653,213
1897	353,863	210,831	564,694
1898	277,023	210,516	487,539
1899	225,491	135,038 •	360,529
1900	218,969	99,560	318,529
1901	190,476	83,543	274,019
1902	224,110	44,919	269,029
1903	221,074	149,151	370,225
1904	165,337	87,144	252,481
1905	190,547	112,549	303,096
1906	237,226	84,205	321,431
1907	218,997	177,660	396,657
1908	209,518	239,136	448,654
1909	196,838	248,581	445,419

The total quantity of freight pass through the Welland Canal from United States ports to United States ports shows a decrease of 3,235 tons as compared with the previous year; and a decrease of 24,380 tons as campared with 1895.

The following statement shows the aggregate number of vessels and the total quantity of freight passed through the Welland Cana', and the quantity passed between United States ports during the years 1867 to 1909 inclusive.

Fiscal Year.	Aggregate number of Vessels.	Total quantity transported on the Welland Canal.	Quantity passed from United States ports to United States ports.
	No.	Tons.	Tons.
.867. 	5,405 6,157 6,069 7,356 7,729	933,260 1,161,821 1,231,903 1,311,956 1,478,122	458,386 641,711 688,700 747,567 772,756
Scason of navigation.			
1872. 1873. 1874. 1874. 1875. 1876. 1876. 1877. 1877. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1885. 1886. 1887. 1888. 1889.	2,8×3 2,594 2,615	1,333,104 1,506,484 1,389,173 1,038,050 1,099,810 1,775,398 968,758 865,664 819,934 686,506 790,643 1,003,156 837,811 784,928 980,135 777,918 878,800 1,085,273 1,016,165 975,013	606,627 656,208 748,557 477,809 488,815 493,841 373,738 284,043 179,605 194,173 282,806 432,611 407,079 384,509 464,478 340,501 434,753 563,584 563,584 563,580 541,665
1893. 1894. 1895. 1896.	2,843 2,412 2,222 2,766 2,725	1,294,823 $1,008,221$ $869,595$ $1,279,987$ $1,274,292$	631,667 592,267 469,779 653,213 564,694
1898. 1899. 1900. 1901.	2,384 2,202 2,399 1,547 1,568	1,140,077 789,770 719,360 620,209 665,387	487,539 360,529 318,529 274,019 269,029
1903. 1904. 1905. 1906. 1907. \$	1,787 1,433 1,595 1,536	1,002,919 811,371 1,092,050 1,201,967 1,614,132	370,225 252,481 305,096 321,431 396,743
1908.	m' - m -	1,703,453	448,654

The total quantity of freight passed through the several divisions of the Canadian Canal system during the season of 1909 is as follows:

	Farm Stock.	Forest Produce of Wood.	Manufac- tures.	Produce of Mines.	Agricultural Products.	Total.
Welland. St. Lawrence Chambly. Ottawa Rideau St. Peters Murray Trent Valley. Sault Ste. Marie	Tons.  1,129 12,877 430 3,735 1,730 3,047 690 189 474	Tons.  186,614 509,157 509,330 232,025 26,727 8,423 655 55,086 71,129	Tons.  506,489 472,656 9,560 64,153 42,642 7,626 50,035 1,880 710,360	Tons.  410,982 642,209 122,835 31,305 17,036 45,140 50,083 1,832 23,969,481	Tons.  920,737 773,730 19,962 5,721 3,639 15,614 828 965 3,109,801	Tons.  2,025,951 2,410,629 752,117 336,939 91,774 79,850 102,291 59,952 27,861,245

The total quantity of freight moved on the Welland Canal was 2,025,951 tons, of which 920,737 tons were agricultural products.

On the St. Lawrence canals the total quantity of freight moved was 2,410,629 tons, of which 773,730 were agricultural products, and 472,656 tons were manufactures.

On the Ottawa canals the total quantity of freight moved was 336,939 tons; of this quantity 232,035 tons were the produce of the forest.

Comparative Statement of the Commerce through the United States, St. Mary's Falls Canals and Canadian Sault Ste. Marie Canal, for the Seasons of 1908 and 1909.

	Traffic fo	or 1909.	Total tra	affic for	Increase.	Decrease.
	United States canal.	Canadian canal.	Season 1909.	Season 1908.	Amount.	Amount.
Vessels	8,525 28,939,463 30,132,374 27,736 1,060,753 6,150,540 4,580,833 38,438,716 17,990,396 363,459 419,977 118,889 18,866,499 517,694,000	$\begin{array}{c} 17,839,674\\ 27,861,245\\ 32,810\\ 361,918\\ 2,435,781\\ 2,522,700\\ 74,401,000\\ 29,503,240\\ 209,433\\ 201,114\\ 8,323\\ 21,156,915\\ 34,309,300 \end{array}$	19,134 13,571 46,779,137 57,993,619 60,546 1,422,671 8,586,321 7,103,533 112,839,716 47,493,636 572,892 651,091 127,212 40,023,414 552,003,300  1,784 1,131,586	10,685 31,126,386 41,416,513 53,306 1,362,435 5,614,650 106,698,934 43,452,705 308,179 549,254 101,329 24,637,001 457,165,355	15,652,751 16,577,106 7,240 60,236 40,398 1,488,883 6,140,782 4,040,931 264,713 101,837 25,883 15,386,413 94,837,945	

The United States canal was open to navigation during the season of—

1889		1900 1901	
1891	225 "	1902	256 "
1892 1893	219 "	1903	223 "
1894 1895		1905	
1896	232 "	1907	233 "
1898 1899	241 "	1909	

The Canadian canal was open to navigation during the season of-

1895	87	days	1903	256	days
1896	218	"	1904	241	"
1897	238	"	1905	255	"
			1906	253	64
1899	239	61	1907	238	. (
1900	238	66	1908	235	4.6
1901	246	66	1909		
1902	264	6.6	•		

The average number of vessels passing per day through the two canals for the season of 1909 was over eighty-one.

10-11 EDWARD VII., A. 1911 A—Table showing the total tonnage of the undermentioned articles moved Up and Down

ĺ	Vegetable Food.									
Year,	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles, †			
1869*	Tons. 45,674	Tons. 313,825	Tons. 120,599	Tons, 20,951	Tons.	Tons. 904	Tons. 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	1,020	1,912			
1886	19,474	154,169	219,442	1,595	4,911	564	14,657			
1887	23,949	221,927	114,938	9,574	12,050		12,533			
1888	16,983	160,963	194,886	5,906	26,629	811	13,608			
1889	7,931	126,664	353,595	4,272	28,356	2,673	18,552			
1890	14,461	118,002	327,394	10,830	27,728	1,549	20,876			
1891	13,517	198,658	185,180	8,113	52,959	65,888	28,042			
1892	17,046	232,019	192,548	6,433	37,173	9,392	32,815			
1893	15,235	258,392	441,092	18,599	31,283	3,671	36,981			
1894	33,628	270,993	169,233	28,353	27,962	567	60,673			
1895	44,044	203,088	164,894	8,689	18,236	1,007	46,463			
1896	42,425	320,563	320,444	11,368	28,178	9,405	56,591			
1897	9,065	324,743	390,615	14,173	25,161	8,483	44,674			
1898	5,578	207,647	437,861	12,286	17,502	16,127	23,182			
1899	11,625	197,732	204,004	2,907	24,037	923	18,460			
1900	10,968	137,800	163,509	4,035	41,055	3,538	14,815			
1901	18,978	151,586	67,756	7,119	28,485	2,961	14,024			
1902	22,282	225,171	67,647	7,418	11,232	4,079	12,963			
1903	25,998	259,031	210,758	14,656	7,911	. 4,904	13,994			
1904	35,049	165,138	116,444	27,171	16,582		13,184			
1905	38,512	254,458	180,921	55,432	36,072	1,711	9,883			
1906	18,294	326,798	211,805	31,446	49,306	1,784	10,739			
1907	22,739	488,565	271,693	13,240	73,369	2,270	22,683			
1908	23,209	732,131	127,402	31,172	33,423	6,667	21,668			
1909	38,763	590,196	140,902	23,151	75,135	33	30,221			

<sup>\*</sup> Fiscal. + Apples, meal of all kinds, pease, potatoes.

SESSIONAL PAPER No. 20a through the Welland Canal, during a period of thirty-nine years, ended Dec. 31, 1909.

				Heavy Goods	š.		
Total.	Railway Iron.	Other Iron.	Salt.	Iron and Salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.
Fons. 503,860	Tons. 46,806	Tons. 16,924	Tons. 91,575	Tons. 37,153	Tons. 103,126	Tons. 58,781	Tons. 275,623
538,147	26,217	17,141	50,540	44,243	186,932	98,605	3,678
579,880	6,923	20,754	40,850	17,157	339,016	118,685	43,387
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
·	51				288,211	81,654	378,540
409,788		7,997	30,300	20,327			
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		6,715	145,193	13,866	172,761
419,786	93	3,220	316	13,617	223,871	16,872	257,989
542,043	47	2,479	1,254	20,269	268,305	2,435	294,789
519,291		753	1,027	28,047	202,384	8,138	240,349
367,177	127	1,610	2,567	7,953	224,644	3,415	240,316
527,426	163	1,567	878	3,666	211,616	355	218,245
805,253	6	2,075	374	8,139	233,096		243,690
591,409		3,072	159	977	203,608		207,816
486,421	185	6,245	54	2,819	158,866	1,140	169,309
788,974	1,192	6,332	82	3,264	223,445	1,158	235,473
816,914	7,206	17,012	227	590	176,226		201,261
720,183	1,414	11,722	799	734	162,336	13,433	190,468
459,688	567	6,361	1,282	1,318	97,732	26,125	133,385
375,720		8,190	533	4,800	47,392	58,400	119,315
290,909	83	6,094	327	8,773	49,480	99,487	164,244
350,792	64	7,488		15,201	64,014	22,480	109,247
537,252	488	5,407	2,554	45,846	147,884	18,323	220,502
373,568	11,381	9,957	1,093	4,164	113,525	39,683	179,803
576,989	2,651	10,912	226	4,221	172,642	22,381	213,033
650,172	3,747	8,493	100	16,204	147,587	5,862	181,993
894,559	961	4,923	246	18,761	267.212	25,040	317,143
975,672		35,726	429		316,921	18,004	371,080
898,401		87,025			377,681	33,301	498,007

B.—Table showing the Total Way and Through Tonnage of the undermentioned Articles cleared downward on the Welland Canal during a series of thirty-nine years, ended December 31, 1909.

### VEGETABLE FOOD.

				DEE FC				
Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles.	Total.
	Tons.	Tons,	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	44,110	310,090	119,541	3,920		680	1,541	479,885
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	374,96
1876	15,735	194,559	144,501	1,110	24,496	1,454	2,949	384,80
877	13,588	248,894	169,185	10,216	2,810	2,405	1,833	448,93
878	8,854	188,106	185,931	1,217	3,088		2,100	389,29
879	10,588	271,545	114,276	803	1,196		2,387	430,79
880	12,467	240,601	162,891		477		1,418	417,85
881	9,655	121,393	103,075	252		6	1,371	235,75
1882	12,205	205,876	54,797	537		1,954	225	275,59
1883	13,256	146,741	182,143	975	731	518	10,971	355,33
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,75
1885	13,322	114,090	117,536	618	1,116	1	1,628	248,31
1886	19,418	146,151	218,897	010	4,891		14,581	403,92
.887	23,940	210,755	114,938	1,711	12,050		12,149	375,54
888	16,973	150,833	194,886	555	26,629	811	13,358	404,04
1889	7,922	120,498	353,595	197	28,356	1,918	18,273	530,75
890	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,98
891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,05
892	17,046	229,569	192,548	6,433	37,173	9,392	32,548	524,70
1893	15,232	257,203	441,092	18,461	31,283	3,671	36,981	803,92
894	33,628	270,514	169,233	28,353	27,962		60,587	590,27
.895	43,895	202,636	164,894	8,689	18,236		46,435	184,78
1896	42,159	319,388	320,444	11,368	28,178	8,970	54,031	784,53
1897	9,025	322,993	390,615	14,173	25,127	8,483	44,651	815,06
1898	5,578	206,313	437,849	12,286	17,491	16,127	23,170	718,81
1899	11,625	197,732	204,004	2,424	23,541	923	18,440	458,68
.900	10,968	137,800	163,509	3,449	40,256	3,538	14,802	374,32
1901	18,937	151,325	67,756	7,119	28,281	2,961	14,021	290,40
1902	22,282	223,499	67,647	7,418	11,223	4,079	12,912	349,06
1903	25,997	257,370	210,758	14,656	7,911	4,904	13,982	535,57
1904	35,046	164,515	116,444	27,171	16,582		13,157	372,91
1905	38,512	247,599	180,921	55,432	36,072	1,711	9,882	570,12
1906	18,227	326,789	111,243	31,446	49,306	1,411	10,739	549,16
1907	22,689	488,565	271,693	13,240	73,369	2,270	22,683	894,50
1908	23,187	730,751	127, 402	31,172	33,423	6,667	21,668	974,27
909	38,763	590,074	140,902	23,151	75,135	33	30,206	898,26

<sup>\*</sup> Fiscal. + Apples, meal all kinds, pease, potatoes.

SESSIONAL PAPER No. 20a

C.—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 thirty-nine years, ended December 31, 1909.

				VEGETABLE	E FOOD.						HEAVY	(roops.		
VEARS.	Fleur.	Wheat.	Согл.	Barley.	Oats.	Rye.	*Other articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
1860	Tons.	Tens.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1872	10,489	124,695	89.761	1,391	7 400	9	2006		91,040	13 930		45,200	50,912	203,302
1873.	10,805	127,727	101,329	1.920	1,188	· co			4.659	13,826		170.242	69, 942	292,704
1874	8.230	229,053	125,627		5,948		5,368		5,742	8,941		203,673	19,651	200,895
1875	1,881	113.832	54,188	2,641	2,946	200	1,920		14	4,123		192,767	34,616	241,451
1876	5,187	96,247	58,138		1,905	525	403			5,531		167,110	25,808	\$45°,000
1877	3,342	107,396	65,260	1,603	2,314	258	413		8,976	8,688		172,868	41,107	239,975
1878	1,316	65,542	60,026	859	277		341			10,713		150,583	13,535	178,723
1000	601	197,781	33,401		464	:	11		2,405	3,648		118,573	17,797	148.741
1000	:	30,611	16,122	1,001	236	:	. *	48,580	4,743	3,515		65,945	18,380	92,954
Tool		34,320	30,031	+72.7	:		9;	65,285	1,313	5,570	:	X3,858	6, 464	97,205
1000	107	30,227	32,433	037		189	7 1	200,49		1,076		158,552	14,533	177,161
1000	2,041	04,382	66,128	735	731	:	8,579	132,496	1,209	6,901		196,462	24,891	229, 471
1984	1,715	40,956	53,707		9,874	:	8,170	114,422	869	599	:	210,790	15,100	227.187
1889.	124	53,235	63,229	732	288		7	118,203		1,594	:	198,416	15,029	215,030
1886	7,591	53,258	94,048		4,790	: : : : : : : : : : : : : : : : : : : :	15,201	172,888	156	5,328		189,964	11,364	206,845
1887	11,780	37,678	83,431	1,732	12,050		10,859	157,530	15	4,406		82,780	627	87,828
1888	8,563	39,999	102,974	C1	26,510	179	11,598	189,825	63	1,601		173,259	2,309	177.28%
1889	5,017	39,229	147,045		27,492	:	17,225	236,208		1,587		227,476	1,204	231,163
1890	9,204	31,527	180,842	6,519	27,030	:	20,497	275,619		504		162,231	1,620	154,563
1891	6,802	32,097	127,494	8,113	52,823	:	26,115	253,444		292		186,572	1,773	189,342
1892	11,018	26,950	131,222	6, 433	36,935		31,992	244,550		576	67	183,895		184,473
1885	6,588	28,187	198,777	16,751	23,870	864	36,352	311,389		344	:	206,827	:	207,171
1894	17,795	53,846	105,329	28,095	27,621	:	60,462	198,358		297	:	188,521	:	188,818
1000	10,169	188,73	2100,017	1,904	17,020		16,316	203,802	181	246		149,490	:	119,917
1007	10,224	54,878	170,004	11,128	16,137	430	16,456	300,407		146	:	207,348	:	207,494
1000	1,23/	11, 900	169,057	14,173	14,965	100	41,887	276,242	965	CT C	: .	165,143	:	166,123
1000	4.414	10,200	100,001	0,303	12,732	1,137	22,671	203,656	277	333		156,814		157,927
1000	0,113	12,926	51,777	2,424	19,020	923	18,198	141,8392	301	1,646		88,931	:	91,481
19001	1,300	13,77	00,040	2,402	53,700	2,149	14,248	145,787		953	:	16,024		46,977
1060	10,165	23,007	150,000	7,119	26,344		14,016	143,732	83	Z;		46,702	:	46,970
1000	13,730	52,033	100,011	7,418	10,006		12,675	142,634		214	:	12,911	:	13,125
1906	0,082	15,439	108,917	11,433	6,112	4,174	13,568	165,725	459		:	113,072	: : : : : : : : : : : : : : : : : : : :	113,535
1904	36,556	14,269	60,964	16,621	16,497		13,079	129,986				63,882	:	63,882
1900	24,004	10,483	93,622	9,197	10,892	:	9,682	162,930	:			73, 464	:	73,465
1906	15,215	13,410	135,240	9,266	11,323		10,678	195,132	:	169		33,523		33,692
1000	18,898	21,892	124,474	2,312	4,741	27 0	22,001	194,820		30		110,347	4,050	114, 420
1000	17,034	12,051	100,000	7,118	305	21	21.393	172,788	:	:	:	158,351	1,400	159,751
Library	107, 207	11,3740	Trace Garas	4,5554			020,011	101,200		C		131,131	1,531	132,007
														-

Apples, meal all kinds, pease, potatoes.

D.—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 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908 and 1909.

1906, 1907, 1908 ai	nd t	909.								
		Canadian	VE	SSELS.		AMERICAN	V <sub>E</sub> s	SSELS.	Т	OTAL.
ARTICLES.	,	steam.		Sail.	1	Steam.		Sail.	Ste	am and Sail.
	No.	Tounage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	216	126,398	104	59,532	354	355,702	195	108,720	869	650,352
1898.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats				36,157 30,455		54,934 284,059 9,465 17,329		18,355 66,761 2,821		205,013 437,813 12,286 17,329
Pease. Rye. Coal. Miscellaneous merchandise. Shingles, woodenware, &c.		260 3,564 575 19,385		1,480 1,916 4,104 9		45 9,135 759 47,271		1,948 2,620 8,758		305 16,127 5,870 79,518
Sawed lumber. Ft. B.M Square timber. Cub. ft. Firewood. Cords.		4,910,669 825,545		1,641,783 1,183,821		6,220,972	2	388,410	4	7,257,707 2,397,776
Staves		249								249
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	191	100,242	129	75,777	201	212,027	78	36,962	599	425,008
1899.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats		91,901 . 28,015 . 1,557		80,928 18,905		16,250 138,834 2,424 21,646		7,244 18,250		196,323 204,004 2,424 23,203
Pease		435 25,203		6,736 18,651		923		3,398 1,567		923 10,569 94,943
Shingles, woodenware, &c Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Cords.		485 2,077,748 322,138		916 772,739 585,780 9	1	4,855,338 20,802	1	9,949,079 328,806	3	1,501 7,654,904 1,257,526 9
StavesNo.		• • • • • •								
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	216	114,885	109	67,475	168	182,444	71	30,309	564	395,113
1900.		Tons.		Tons.		Tons.		Tons.	,	Tons.
Wheat		67,694 39,597		43,157 31,248		23,066 $78,701$ $2,402$		2,130 $13,963$ $1,047$		136,047 163,509 3,449
Oats Pease		115				39,706		407		40,113
Rye. Coal. Miscellaneous merchandise		1,389 723 53,649		637 31,536		2,149 433 43,344		559 3,564		3,538 2,352 132,093
Shingles, woodenware, &c. Sawed lumberFt. B.M. Square timberCub. ft. FirewoodCords.		1,078 $6,847,279$ $439,827$ $126$		5,344,258 355,951 255		4,984,483 11,583	1	8,770,405 198,420	45	1,078 5,946,425 1,005,781 381
Staves										1,000

D.—Statement showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

	Canadian	VES	SELS.	U:	NITED STA	TES 1	Vessels.	Т	OTAL.
	Steam.		Sail.	à	Steam.	1	Sail.		Steam ad Sail.
No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
197	103,802	114	59,022	163	182,497	48	22,319	522	367,640
	Tons.		Tons.		Tons.		Tons.		Tons.
	57,641 $7.350$		58,973 4,689		31,955 55,717		1,241	]	$149,810 \\ 67,756$
					7,119 27,197				7,119 $28,141$
	2,961 1,960 71,300		362		357 12,874		7,469	```	2,961 2,679 123,955
			4,060,251 204,682 264	1		1		3	18 4,776,420 726,038 429
No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
196	90,791	122	73,958	191	201,339	52	22,097	561	388,185
	Tons.		Tons.		Tons.		Tons.		Tons.
	82,954 $148$		85,973 1,388		52,889 66,111				221,816 $67,647$
	1,200		43		7,418 9,963				7,418 $11,206$
	3,808				271				4,079 51,538
	33,111		8,723		38,351		1,594		81,779
1	3,218,960		3,256,187 557,689		25, 437, 287	1	19,540,426 115,000	6	1,452,860 1,043,407 96
			14,000						14,000
No.	Tonnage.	No.	Tonnage,	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
329	151,850	76	45,918	243	252,094	69	27,854	627	477,716
	Tons.		Tons.		Tons.		Tons.		Tons.
	149,378 $21,356$	ì	$38,473 \\ 4,682$		60,514 174,588		6,305 $10,132$		$\begin{array}{c} 254,670 \\ 210,758 \end{array}$
	2,580 306	1	667 1,335		11,409 6,112				14,656 7,753
			12.991		4,904		8 196		85 4,904 30,009
	39,563	1	3,367 54		41,584		2,000		86,514 54
. 1	12,841,552 572,000		1,625,855 $660,000$				84,200	4	7,072,736 1,316,200
			641,000		9				641,000
	No. 197	No.   Tonnage.   197   103,802   Tons.   57,641   1,960   71,300   18   6,533,423   362,441   165	No.   Tonnage. No.   197   103,802   114     Tons.	No.   Tonnage.   No.   Tonnage.	Steam.	Steam.	Steam.	Steam.	Steam.

D.—Statement showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

		Canadia:	v Ve	SSELS.	U:	NITED STA	TES '	Vessels.	]	TOTAL.
Articles.		Steam.		Sail.	5	Steam.		Sail.		Steam nd Sail.
	No.	Tonnage	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	228	157,539	55	39,375	205	187,748	42	15,918	530	400,580
1904,		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		116,794 12,768 2,619		33,302 7,814 824		14,269 95,862 23,728 16,261		• • • • • • • • • • • • • • • • • • • •		164,365  116,444  27,171  16,261  3
Pease. Rye Coal. Miscellaneous merchandise Shingles, woodenware, &c		1,925 34,907 29,567		7,187		17,133 1,925 60,548		7,668		33,913 36,832 90,115
Sawed lumber. Ft. B.M. Square timber. Cub. ft. Firewood Corps. Staves No.		5,077,382		\$54,811 744,000	• • •	2,754,541 717		9.572,655 149,000		8,259,389 1,837,508 717 634,000
				Tonnage.					Vo.	Tonnogo
		182,373	91		319		64			546,841
1905,		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley Oats. Pease.		188,706 6,385 6,870 8,225	1	18,575 6,636 1,451 2,570		28,757 163,374 47,111 21,535 76		2,512 4,526 3,742		238,550 180,921 55,432 36,072 76
Rye Coal. Iron ore Merchandise. Shingles, woodenware, &c Sawed lumber Ft. B.M.		18,756 14,358 29,375 2.867,147		35,324 8,023 7,485 2,748,941		1,711 28,330 74,975 2,325 8,290,831	1	8,678 3,126 2,479,698	5	1.711 91,088 22,381 114,961 2,325 4,589,200
Square timber Cub. ft. Firewood Cords.		355,000		951,524 183,000		900		2,413,000		538,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tounage.	No.	Tonnage.
	328	238,690	121	66,355	305	310,622	43	15,758	797	631, 425
15006,		Tons.		Tons.	,	Tons.		Tons.	•	Tols.
Wheat Corn Barley. Oats. Pease. Rye		250,493 8,177 8,546 21,900		5,046 16,083		35,578 202,250 17,854 11,323 11 1,406		1,378		320,436 49,306 31,446 49,306 11 1,411
Coal		30,455 5,862 35,883		47,242 7,009		24,190 110,263		9,356		111,243 5,862 152,705
Shingles, woodenware, &c Sawed lumberFt. B.M. Square timberCub. ft. FirewoodCords.	:	$ \begin{array}{r} 16\\ 3,471,514\\ 375,000\\ 110 \end{array} $		37 235,624 200,000 18	28	851 5,711.196	. i	0,769,755	41	904 0,188,089 575,000 1,221
Staves						300,000				300,000

D.—Statement showing the Quantity of Though Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Concluded.

1907.   Tons.   Tons.   Tons.   Tons.   Tons.   Tons.											
No.   Tounage, No.			Canadian	VES	SSELS.	U	NITED STA	TES V	Vessels.	7	COTAL.
1907.   Tons.   Tons	Articles.	,5	Steam.		Sail.	;	steam.		Sail.		
Tons.   Tons.   Tons.   Tons.   Tons.   Tons.   Tons.		No.	Tonnage.	No.	Tomage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
Wheat		375	290,509	148	81,070	408	397,616	76	36,921	1,007	806,116
Corn.	1907.	-	Tons.		Tens.		Tons.		Tons.		Tons.
Oats.         49,689         16,647         7,033         73,369           Pease         25         2,270         2,270         2,270           Coal.         31,506         47,373         50,183         14,493         143,555           Iron ore.         12,040         8,950         20,990         Merchandise.         21,545         9,436         5,231         6,235         42,497           Shingles, woodenware, &c.         2,292         32,292         2,292         32,292	Corn		6,713		514		259,895				271,693 13,240
Coal.         31,506         47,373         50,183         14,493         143,355           Iron ore         12,040         8,950         29,990           Merchandise         21,545         9,436         5,231         6,235         42,447           Sawed lumber         Ft. B.M         14,395,124         11,201,446         25,596,570           Square timber         Cub, ft.         558,090         323,000         14,395,124         11,201,446         25,596,570           Firewood         Cords         567         432,623         149         64,034         428         319,030         36         19,866         1180         835,553           1908.         Tons.         1124,997         127,402         31,172         Onts.         127,402	Pease		49,689		16,647		$7,033 \\ 25$		• • • • • • • • • •		25
Shingles, woodenware, &c.   2,222   2,225,596,570   Sawed lumber.   Ft. B.M.   14,395,124   11,201,446   25,596,570   S81,090   660   660   881,090   660	Coal		12,040	* * *	8,950		50,183				$\begin{array}{c} 143,555 \\ 20,990 \end{array}$
No.   Tonnage, No.   Tons, No.   Tonnage, No.   Tons, No.   T	Shingles, woodenware, &c Sawed lumberFt. B.M.				· · · · · · · · · · · · · · · · · · ·	1	2,222	1		, 2	2,222 5,596,570
Tons					323,000		660		• • • • • • • • • • • • • • • • • • • •		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		567	432,623	149	64,034	428	319,030	36	19,866	1180	835,553
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1908.		Tons.		Tons.		Tons.		Tons.		Tons.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Corn		2,405				124,997				127,402
Coal.         39,733         42,656         57,448         8,344         148,181           Merchandise.         26,815         14,783         14,410         13,686         69,694           Firewood.         Cords.         70         1,173         1,243           Sawed lumber.         Ft. B.M.         17,572,070         6,578,545         24,150,615           Square timber.         Cub. ft.         221,300         313,000         Tonnage.         No.         Tonnage.           No.         Tonnage.         No.         Tonnage.         No.         Tonnage.         No.         Tonnage.           1909.         Tons.         Tons.         Tons.         Tons.         Tons.         Tons.           Wheat         415,208         34,903         133,172         583,283           Corn.         6,694         134,208         140,902           Barley         17,943         360         4,848         28,151	Oats Pease		30,091				2,689 40		· · · · · · · · · · · · · · · · · · ·		33,423 40
Sawed lumber. Ft. B.M. 17,572,070 6,578,545 24,150,615 Square timber. Cub. ft. 221,300 313,000 70, Tonnage. No. Tonnage. N	Coal Merchandise		39,733	• • • •	14,783		57,448				$148,181 \\ 69,694$
1909.   Tons.   Tons.   Tons.   Tons.   Tons.   Tons.   Tons.   Wheat   415,208   6,694   6,694   6134,208   134,208   134,208   140,902   Barley   17,943   366   4,848   23,151	Sawed lumber Ft. B.M.					1			6,578,545	2	4,150,615
1909. Tons. Tons. Tons. Tons. Tons.  Wheat 415,208 34,903 133,172 583,283  Corn. 6,694 134,208 140,902  Barley 17,943 360 4,848 25,151		No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage,	No.	Tonnage.
Wheat     415,208     34,903     133,172     583,283       Corn.     6.694     134,208     140,902       Barley     17,943     360     4,848     25,151		555	486,406	136	71,034	323	324,576	26	17,317	1040	899,333
Corn.     6,694     134,208     140,902       Barley     17,943     360     4,848     23,151	1909.		Tons.		Tons.		Tons.		Tons.		Tons.
	Corn		6,694			1	134,208				140,902
Pease. 63 63	Oats				360 4,743						75,135 $63$
Rye.     33      33       Coal.     160,475     53,681     21,097     630     235,883       Merchandise.     52,994     14,782     12,232     16,498     96,506	Rye		160,475							(	235,883
Sawed lumber Ft. B.M.     32,364     11,762     12,252     10,435     30,505       Square timber Cub. ft.     3,450     7,840     125     1,475     12,800	Sawed lumberFt. B.M.				<del>.</del> . <b></b>		31,643		10,214	· }	41,857

### WELLAND CANAL THROUGH FREIGHT-RECAPITULATION.

### WELLAND CANAL-WEST BOUND FREIGHT.

The total quantity of Through Freight passed Up the Welland Canal in Canadien and United States Vessels during the Season of Navigation in 1909 is as follows:—

Summary.	Tons.	Tons.
In Canadian steam vessels	302,704 18,089	320,79
In United States steam vessels	312,276 7,948	020.10
Total in United States vessels		320,22
Grand total freight passed Up the Welland Canal in Canadian and United States vessels		641,01

STATEMENT of the Quantity of Through Freight passed Up and Down the Welland Canal during the Season of Navigation in 1909.

Summary,	Tons.	Tons.
In Canadian steam vessels up down down down	302,704 802,515	
Total in Canadian steam vessels		1,105,219
In Canadian sail vessels up	18,089 124,386	
Total in Canadian sail vessels		142,475
Total quantity in Canadian vessels		1,247,694
In United States steam vessels up down.	312,276 379,305	
Total in United States steam vessels.		691,581
In United States sail vessels up	7,948 28,817	
Total in United States sail vessels		36,765
Total quantity in United States vessels		728,346
Total in Canadian and United States vessels		1,976,040
	Down or East Bound.	Up or WestBonnd.
In Canadian vessels In United States vessels	926,901 408,122	320,793 320,224
Total	1,325,023	641,017

SESSIONAL PAPER No. 20a

F.—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 Season of Navigation 1897 to 1909.

	1909.	Tous.	3,652	12,689	19,143 17,137 19,631 21,905	65,624		550,775		366	
	1908.	Tons.		553	24,318 10,454 27,500 5,028	28,081	6,662	686,626		790,321	1,543
	1907.	Tons.		151	9,936 105,984 49,159	146,99	2,266 143	450,446		688,749	
	1906.	Tons.		269	21,196 55,559 80,570 9,174	37,164	1,405	289,611	4,810	199,895	
	1905.	Tons.	:83:	752	84,204 15,694 14,571	21,404	1,711	190,505	1- E	384,727	
	1904.	Toms.	35	1,651	2,697 212 212 214 24,662	76 76	919	133,528	2	241,522	17 16
	1903.	Tons.		2,542	2,206 123,864 3,643 16,151	2, 438 4,	63 4,260 132	956,746	· · · · · · · · · · · · · · · · · · ·	382,858	258
	1902.	Tons.	<u> </u>	5,785	1,719	1,442	4,079	200,975		220,805	13
	1901.	Toms.		1,178	14,319	1,584 1,084 1,084	2,961	132,702	1,155	161,849	1,785
`	1900.	Toms.	15	4,292 5,420	1,288 109,359 1,595	8,928	3,078	121.896		256,491	25
	1899.	Tons.	15	5,063	596 150,999 4,229	10,250	923 183 200	32 32		345,565	50 50
	1898.	Tons.	52	6,217	3,960 310,498 5,687 653	3,975	260 15,488 144	184,154		532,499	73
	1897.	Tons.		7,564	267,583 3,293 1,029	6,847	2,078 8,435 216	278,498		576,008	133
1	Articles,		Chass 3. Conent and water lime. Clay, lime and sand. Iron, railway	" plg" " all other Steel. Stone, for cutting	Apples Apples Cam Plaxsecd Plaxsecd	Meal, all kinds Oats Oil cake	Pease Rye Salt Seed, all kinds	Hay, pressed Tobacco, raw Wheat All other agricultural products, Pregables	Hutes, Skurs, norns and noors. Horses. Lard and lard oil. Neats, all kinds. Pork. Tallow.	All other agricultural products, animal Total, class 3	Class 4. Agricultural implements. Ashes. Bricks.

10-11 EDWARD VII., A. 1911

E.—Statement showing the Quantity of Freight passed Eastward, from Lake Brie, through the whole length of the Welland and St. Lawrence Canals, to Montreal, &c.—Concluded.

1909	Tons.				525 10,418	42,265		000	996	175,115	176,939	939,055
1908.	Tous.		30,002		1,056	34,730				42,075	43,367	869,398
1907.	Tons.		22,111	22	1,224	25,749		4,180	4,180	70,489	70,489	789,167
1906.	Tous.	9	19,995	61	994	21.164	100	1,500	4,000	29,172	29,172	554,231
 1905.	Toms.	828 829	20,700	2, 019 5,019 53 53 204	635	25,572	3,957	1,260	5,217	29,351 3,837	33,188	448,704
1901.	Tons.	- o m	12,848	28	766 713	14,456	394	1,544	1,938	17,362		275,278
1903.	Toms.	240 240 240	14,619	· &	582.23	15,569						398,427
1902.	Toms.		12,091		617	12,577	1,085	21	1,117	15,976		250,475
1901.	Tons.	20	14,987		2,420	19,366	9,635		3,205			184,420
1900.	Tons.	9	15,647		218	15,798	182		15,942			28,231
1899.	Toms.	16	7,143	96	74 518	7,969	924	26	951			354,485
1898.	Tons.	8.8	1,141		866	2,215	3,065	329	3,394			538,108
1897.	Tons.	- 22 0	112		1,226	1,580	257 478 4,716	1,207	6,658			584,246
	Articles.	Crockery Furniture Class, all kinds. Molasses		Rosin Soda ash Sugar Trin Tobacco	White lead Whisky, beer and other spirits. Merchandise not enumerated.	Total, class 4	Barrels, empty Hoops Asawed lumber Staves, pipe and barrel	Timber, square, in vessels Woodenware	Total, class 5	Coal Special Class. Iron ore Stone, all kinds	Total, special class	Grand total

SESSIONAL PAPER No. 20a

STATEMENT showing the Quantity of Freight passed Westward from Montreal through the whole length of the St. Lawrence and Welland Canal to Lake Erie, during the Seasons of Navigation in 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 43,039 Tons. 1909. 7,655 6,987 30 9 2,561 22,076 31 Tons. 1907. Š. 8,236 880 17 111 16,457 1906. Tons. 521. 531. 563. 563. 563. 4,934 Tons. 127 1905. 3,782 99 58 255 4,647 164 Tons. 1904. 39,641 273 5,845 87 339 88.82 84.82 Tons. 50,768 1903. 178 8 E 2,904 11,735 558 15,520 1902. Tons. 4,950 2,916 305 9,222 1901. Tons. 1,428 3,764 1.931 Tons. 1900. 2,500 Tons. :81 121 1899. 2,031 Tons.  $\frac{22}{2}$ 555 Tons. 2 1,698 1897. Agricultural products not enumerated, veget-Grockery and earthenware Dye woods, &c. Agricultural implements ...... Meats other than pork..... All other articles not enumerated Brimestone..... Ashes, pot and pearl..... Pork. Wool Total, class 3..... Articles. Clay, lime and sand ..... Class 3. Cotton, raw .... Seeds, all kinds.... Class 4. Gypsum Iron, railway Salt all other.... Horses Lard and lard oil.... Oats ... Ables..... Stone for cutting Tobacco, raw ... Plour .... Potatoes. Fish Hay ... Meals 5 20a.3

10-11 EDWARD VII., A. 1911

C.—Statement showing the Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and Welland Canal to Lake Erie, &c.—Continued.

	180%	1200	1800	1000	1001	1909	1003	1903	1905	1006	1007	1000
Articles.	Tool.	1000.	10357.	1300.	Loca.	TOOF	1300.	Loug.	1.70%.	Tagg.	1904	Laura
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Furnitune Class 4—Con.	799	150	503	1-156	612	1,384	1,207	1,671	1,641	2,519	3,634	
Marble								#6 	S :	35.5	e7 · · · · · · ·	
Molasses. Nails	129	220	518	0,0	1 675	1.292	9.878. 6.000	2,009	3,061	4.011	3,331	
Oil, in barrels	22.0	123	51	च्या ( 	000	77.0	16	1,418	120	150	155	
Famt.	28	999	20.00	22	66 66 76	27	15x	198	367 5	215 230 230	GRZ	
Rags. Besin		:	<u>=</u>	:	:	_	53 -		15		30	:
Soda ash	249	88	108	69	169	301	264	387	28	310	500	
Sugar	311	2000	1,596	430	810	1,314	204	555	1,168	1,153	6,046	0+
Turbentine	609	797	207		255	900	502	302	828	1,305	1,173	
White lead	10			#	11.	53	08		98 80	304	283	
Whiting	200	 6 6			13.1	191	61 <u>65</u>		384		18	6
Merchandise not enumerated	711	793	482	7-1-4	1,516	1,049	3,674	9	15,360	11,707	16,498	21,359
Total, class 4	2,844	2,405	3,491	2,447	4,492	6,169	9,294	13,379	23,566	23,116	33,049	21,620
Class 5.												
Barrels, empty Firewood in vessels. Pulpwood	· · · · · · · · · · · · · · · · · · ·					3,600	10,026	40,425	43,982	2,307	2,337	122,867
Lundber, sawn, in vessels Railway ties in vessels Woodenware							611			10		8,984
Total, class 5						3,600	40,637	10,425	43,982	57,218	104,326	126,851
Special Class.												7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Coal								10,200				
Total, special class								13,061				
Grand total	4,542	4,436	5,991	6,211	13,714	25,289	100,699	71.512	72,482	96,791	159,451	191,510

SESSIONAL PAPER No. 20a

United States Ports to United	
from	clusive
Canal,	909 in
ne Welland	1897 to 1
the	OIL
through	rigation fr
Eastward	son of Nav
passed	z the Sea
Freight	during
of 1	orts,
Quantity	States P
H STATEMENT showing the	

200													
	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Fons.	Tons.	Tons.	Tons.	Tons.	Tons.
Bricks Cement and water line.	845	300		: 81									
I fish I non railway.	996	770 324	1,008	114		: : : : : :				: :::	R : 8		
Sate Steel Stone for cutting		2,951	13,522	3,110	GG : :					:01 :	506	9,086	
Apyles Barley Corn Flour	14,173 169,057 7,237	6,909 150,667 4,212	2,421 S1,777 6,118	60,5462	7,119 55,531 17,168	7,418 66,111 13,785	11,433 108,917 6,082	16,621 60,964 8,556	9,197	9,266 135,240 15,215	2,812 124,474 18,898	7,148 99,830 17,694	4,224
	301	22,626	18,198	14,214	14,016	12,675	13,546	13,076	9,606 87	10,668	21,976	21,353	
Nails Oil cake Oats Peaste December	14,969	12,729	19,526	39,705	26,344	110,006	6,112 22	16,497	228 10,892 76	11,323	4,741 25	2,070	£ : : : : : : : : : : : : : : : : : : :
Rye. Flax seed Seeds, all kinds	506	1,197	923 200 11	2,149		01	4,174 1,594			756	2 11	G1	15,452
Tobacco Wheat Agricultural products, vegetables. Hides and stime. &c.	28,919	11,268	12,926	18,771	23,557 10	32,639	15,436	14,269	15,483	13,410	21,892	24,651	17,940 22,620 315
Horses Lard and lard oil, &c.	1,444	3,671	864	1,588	1,680	2,413	Cī			. 63	98		
means, other than pork. Policy	243	1,271	343	17	970	632	152	379	27.3	268	120	190	
Tallow Wool	197	359 89	201	631	119	752	485	13:1	: ::	68	08		157
Total, class 3	280,319	219,434	158,720		147,947	146.581	168,720	130,499	163,784	196,301	196,062	182,085	161,738
Agricultural implements. Crockery and earthenware.			t~		· · · · · ·	399		396	552	+63+	io :	¢1	152

H.—Statement showing the Quantity of Freight passed Eastward through the Welland Canal, from United States Ports to United States Ports to United States Ports to United States Ports and Isolation of Navigation from 1897 to 1909 inclusive.—Concluded.

							10	-11 EI	DW/	ARD VII., A	. 19	11
1909.	Tons.		1,196	5,866	7,316			125	27.384	400	400	196,838
1908.	Tous.	: :27		1,857	1,875	3,509	178		25,558			209,518
1907.	Toms.	: m = :	26.075	41,621	892,78	1,980	2,151		18,516	110,347 2,734 1,316	114,397	396,743
1906.	Tons.		840	2,324	3,660	3,609 27,701		1,500	32,865	4,400	4,400	237,226
1905.	Tons.	학 기가	181-	2,008	2,666	3 2,700 15,726	2.248 62 12		20,751	3,346	3,346	190,547
1904.	Tons.		: ::::::::::::::::::::::::::::::::::::	1,554	2,021	30,194	652		31,717	1,100	1,10	165,337 190,547
1903.	Tons.	2,000		2,010	4.017	48,337			48,337			221,074
1902.	Tons.	1,594	280	1,928	4,218	72,806			72,810	501	501	224,110
1901.	Tons.	4	448	3,327	3,805	282			38,367	357	257	
1900.	Tons.	57 17 36	154	7,889	8,164	55,128			55,133	902	992	218,969 190,476
1899.	Tons.	8 11 367 1		168	6,783	57,695			57,695	2,293	2,293	925,491
1898.	Tons.	119		3,828	3,986	52,844			52,844	759	692.	277,023
1897.	Tons.	198		3,591	3,820	68.280		1,040	69,724			353,863
. Articles.		Marble Molasses Notilis Oil, in barrels Paint. Rags	Stone, wrought Sugar. White lead	Whisky, beer and all other spirits  Merchandise	Total, class 4	Empty barrels Firewood, in vessels Lumber, sawn, in vessels Mark and snars, in vessels	Hop poles Railway ties, in vessels Shingles Split poets		Total, class 5.	Coal. Special class. Storie, not suitable for cutting. Kryolite. Iron ore	Total, special class	Grand total

L—Statement of the quantity of Grain Transhipped to the following Ports for the season of 1909.

Ports.	Wheat.	Oats.	Barley.	Corn.	Other Grain.	Total.	Total.
	Bushels.	Bushels.	Bushels.	Bushels,	Bushels.	Bushels.	Tons.
Kingston	7,998,834	1,015,470	569,708	251,035	190,868	10,025,733	282,696
Prescott	70,800	82,118			26,200	179,118	4,175
Ogdensburg		•••••		68,143		68,143	1,908
Total Bushels	8,069,634	1,097,588	569,708	319,178	216,886	10,272,994	
Total Tons	242,089	18,658	13,673	8,937	5,422		288,779

M.—The quantity of Coal passed though the Welland Canal during a series of years from 1885 to 1909 inclusive, as follows:—

Years.	From Canadian Ports to Canadian Ports.	Canadian Canadian Ports to Canadian Canadian		tates Ports to ates Ports.	From United St United St Canadia	Total.	
	Up.	Down.	Up.	Down.	$t^{\dagger}p$ .	Down.	
	T ons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
885			193,442	4,974	10,321	31,350	240,0
			184,564	5,400	22,187	49,724	261,8
87			81,617	1,163	26,775	25,968	$\frac{135,}{217,}$
88			172,381	878	17,365 $12,036$	27,183 $25,931$	$\frac{217}{265}$ ,
889	80		$\begin{array}{c} 226,352 \\ 116,616 \end{array}$	1,124 615	17,280	22,781	202,
	1 "		185,190	1,382	17,374	20,698	224,
92.			183,244	651	12,391	15,330	211,
93			204,704	2.123	8,325	17,944	233,
94			187,794	727	1,269	13,947	203,
95			148,887	603	1,565	7,807	158,
96	.) 20	210	206,093	1,255	4,127	11,740	-223,
97		4	165,143		1,277	9,799	176,
98			156,055	759	986	4,536	162,
99			86,638	2,293	525	8,276	97,
00			45,032	992		1,360	47, 49.
01			46,345	357 501	456	2,322 51,037	64.
002			12,410	501	4,796	30,009	147.
103			$\begin{array}{c} 113,076 \\ 62,782 \end{array}$	1,100	3,711	32,813	103,
ю. Ю.5			70,118	3,346	11,436	37,742	172.
)06			29,123	4,400	7,161	106.843	147,
907			440'0.0	1,100	10,453	143,555	267
908			158,351		5,988	148,181	316,
					11,067	235, 483	377,

N.—Statement showing the quantity of Coal passed though the whole length of the St. Lawrence Canal during the seasons of 1885 to 1909 inclusive.

Years.	Quantity passed up.	Quantity passed down to Montreal.	Total Quantity passed up and down.
	Tons.	Tons.	Tons.
1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907.	7,579 8,341 5,360 6,538 7,951 7,543 2,285 16,213 689 40 400 448 100 2,765 9,231 30 9,670 8,518 6,989 1,281 23,939	122,829 118,802 121,618 123,050 124,290 135,168 141,701 157,134 147,139 169,552 165,151 161,551 164,963 175,609 201,546 280,169 298,245 95,702 290,548 320,973 345,589 313,080 406,978 448,140 469,695	127,864 122,103 129,197 131,391 129,650 141,706 149,652 164,677 149,424 185,765 165,151 162,240 165,03 176,009 201,994 280,179 301,010 104,933 290,578 330,643 354,107 320,669 408,259 472,079 483,238

O.—Statement showing the Quantity of Through Freight passed down the Welland Canal, &c.

#### RECAPITULATION.

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 Lake Ontario,
1898.	Tons.	Tous.	Tons.
Barley. Corn **Oats Pease Rye.	3,960 310,498 3,975 260 16,133	1,417 13,338 625	6,909 116,317 12,729 45
Wheat	184,706	15,860	8,612
Other articles	†519,532 19,773	31,279 79,614	144,612 114,259
Total	539,305	110,893	258,871
1899. Barley Corn Oats	568 150,999 10,250	16,594 1	1,828 43,854 13,139
Pease Rye Wheat	923 169,978	24,602	9,190
Total grain	‡ 332,736 21,739	40,197 68,671	68,011 104,72 <i>i</i>
Total	354,485	108,958	172,732
1900.			
Barley. Corn. Oats. Pease. Rye. Wheat.	1,288 109,358 8,925 115 3,078	563 9,844 348	1,598 44,406 30,840 4 300
Total grain	**244,661	6,610	7,541
Other articles	43,670	95,680	93,287
Total	288,231	113,205	177,876
TO 1			
Barley. Corn Oats. Pease.	14,319 1,584	4,828 853	49,609 25,704
RyeWheat	2,961 132,702	8,051	9,057
Total grain	†151,566 32,854	13,732 128,614	83,370 91,799
Total	184,420	142,346	175,169

O.--Statement showing the Quantity of Through Freight passed down the Welland Canal, &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 Lake Ontario.
1902.	Tons.	Tons.	Tons.
Barley	1,719 1,412	10,335	7,418 55,583 9,764
Pease Rye Wheat	$\substack{4,079 \\ 200,975}$	12,452	8,389
Total grain	‡208,215 42,260	22,787 32,946	81,165 179,914
Total	250,475	55,733	261,078
, 1903.			
Barley Corn Cots	$\begin{array}{c} 2,206 \\ 116,223 \\ 2,438 \end{array}$	1,017 13,846	11,433 80,689 5,315
Pease. Rye. Wheat	63 4,200 226,746	14,199	22 644 13,725
Total grainOther articles	\$351,936 38,850	29,062 82,298	111,828 101,621
Total	390,786	111,360	213,449
1904.			
Barley Corn Oats Pease	9,697 55,021	853 3,950	16,621 57,473 16,497 3
Rye. Wheat	*133,528	18,908	11,929
Total grainOther articles	198,246 77,031	23,711 80,092	102,523 138,475
Total	375,277	103,803	240,998
1905.			
Barley. Corn. Oats. Pease	43,607 84,204 21,404	2,628 3,095 3,776	9,197 93,622 16,892 76
Rye Wheat	1,711 190,505	32,562	15,483
Total grain	**341,431 107,273	42,061 123,225	129,270 104,747
Total	448,704	165,286	234,017

O.—Statement showing the Quantity of Through Freight passed down the Welland Canal, &c.—Concluded.

## ${\bf RECAPITULATION} - Concluded.$

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1906.	Tons.	Tons.	Tons.
BarleyCorn Oats Pease	21,196 55,559 37,164	984 15,688 819 11	9,266 140,558 11,323
RyeWheat	1,405 ***289,611	15,843	14,972
Total grain. Other articles.	404,935 118,224	33,351 176,277	176,119 59,884
Total	523,159	209,628	236,003
1907.  Barley Corn Oats Pease	9,936 106,299 67,063	492 31,901 1,565	2,812 133,493 4,741 25
Rye. Wheat.	2,266 *450,609	8,072	22,222
Total grain Other articles	635,573 153,594	42,032 126,423	163,295 93,127
Total	789,167	168,455	256,422
Barley Corn Oats	24,318 10,454 28,081	3,546 11,489 3.272	3,308 105,459 2,070
Pease. Rye. Wheat	6,662 +686,626	3 19,832	$\begin{array}{c} 40 \\ 2 \\ 24,293 \end{array}$
Total grain Other articles	756,141 108,785	38,142 162,378	135,172 91,875
Total	864,926	200,520	227,047
1909.	1		
Barley. Corn. Oats. Pease. Rye.	19,143 17,137 65,624 30 33	22,798 2,872	4,008 100,967 6,639 33
Wheat	550,775	14,568	17,910
Total grain	652,742 272,263	40,238 113,970	129,587 126,223
Total	925,005	154,208	255,810

10-11 EDWARD VII., A. 1911

Table 1.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation in 1908 and 1909.

							0-11 2577	AILD
f Cargo.	United States.	10,666,985 927,208 747,451 123,602	1 1 1	12,490,673	i i	24,494, 975, 699, 128,	23,037 23,037 5,835 14,131	26,342,691
Origin of Cargo.	Canadian.	81 <del>-</del> 1		5.012,147	2000	3,366,495 1,050,241 1,710,797 623,421	79, 150 79, 254 331, 104 77, 643 59, 952	7,378,657
Total Tons.		12,759,216 1,703,453 2,009.102 503,276	72,015 25,901 258,527 89,640 81,690	17,502,820	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	स्वत्यं -	79,850 102,291 336,939 91,774 59,952	33,720,748
ri d	Down.	9,943,369 1,292,493 1,424,646 134,342	49,595 18,692 256,169 48,072 69,850	4,265,592 13,237,228	000	24,436,502 1,383,862 1,630,208 140,171	25,052 29,179 282,483 45,433 42,133	28,012,023
Tons.	C.b.	2,815,847 410,360 584,456 368,934	22,420 7,209 2,358 41,568 11,840	4,265,592		3,424,743 642,089 780,421 611,946	27,748 73,112 54,456 46,341 17,819	5,678,725
ted States n Ports.	Down.	218,226 495,736, 583,340 123,612	13,306 691 12,308	1,447,219	E CO	107,837 551,837 661,557 128,696	21,935	1,544,054
From United States to Canadian Ports.	Up.	955,288 8,377 8,635		972,300	, 1000 P	11,467	5,175 1,827	1,023,829
From United States to United States Ports.	Down.	8.008,121 209,518 1,227		8,218,866	900 400	1,736,801 22,188,388 248,581 196,838 140		22,385,226
	Up.	1,464,421 939,136 753		1,704,310	1	1,736,801 248,581 140		1,985,522
From Canadian to United States Ports.	Down.	230,333 15,278 198	28,855	278,721	000	512,293 16,469 36,547	42,333	607,894
From Canadian to United States Por	Up.	17,940 35,370 140,162 364,774	: : :	560,736		46,011 164.304 242,954 606,466	100 150 394	1,060,715
madian n Ports.	Down.	1,486,689 571,961 839,881 10,730	49,595 5,380 226,623 31,713 69,850	3,292,422		1,567,940 618,718 932,104 11,475	52.052 7,244 240,156 33,033 42.133	3,504,849
From Canadian to Canadian Ports.	Up.	378,198 128,077 434,906 4,160	22,420 6,717 2,358 39,570 11,840	1.028,246		641,601 217,737 533,568 5,480	27,169 72,034 49,131 44,120 17,819	1,608,659
Ganals,		1908. Sault Ste. Marie Welland Late Lawrence Chambly	St. Peter's Murray. Ottawa. Rideau. Trent.	Grand total	1909.	Sault Ste. Marie Welland St. Lawrence Chambly.	St. Petér's. Murray. Ottawa. Rideau Trent.	Grand total

SESSIONAL PAPER No. 20a

Tables 2.—Statement showing the Number, Tonnage and Nationality of Vessels passed through the several Canals during the Season of Navigation in 1909.

	Total Tons.	Down.			1,460,426 2,988,936 592,437 1,185,974 1,224,913 2,476,977				3,835,535 7,811,578		7		12,581 24,619 1,134 2,054 698 1 903	:	11,361,126 16,459,322	9,074,239 15,196,661 24,270,900
	Tons,	Up.				48,796 182,149 77,056			3,976,043 3,		10			1,238	5,098,196 11,	9,074,239 15,
	om United States to Canadian Ports.	Down.	!		123,254 210,614 152,497	14,545 502 252 253	980 8	00000	513,907		58,249 135,216	222,118 205,278	: :::	1,029	621,903	1,135,810
	From Uni Canadia	Up.			252,281 4,648	766	031	DOT LOS	207,940		197,837		9,388,	526	213,750	471,695
	From United States From United States to to to United States Ports. Canadian Ports.	Down.			111,236			111 000	111,230		3,902,156 10,228,683 267,395 200,005			8	4,178,378 10,429,614	4,260,960 10,540,850
D	From Canadian From United States United States Ports. United States Ports.	Up.			S1,423 1,168			00 501	186,28		3,902,156 267,395	S. 1. 2		388	4,178,378	4,260,969
	From Canadian to tited States Ports.	Down.			213,062 1,452	3,399		000	211,909		180,5		12,581	2	200,202	118,191
	From C United Sta	Up.				16,075 157 3,067		76	026,006		55,615	203,865	10	385	142,176	742,496
D	From Canadian to Canadian Ports.	Down.			<u> </u>		51,729 88,206 99,803	3	2,332,400		1,139		1,022	27.6	109,407	3,101,810
1	From C to Canadia	Up.			-í -í		50,694 85,722 149,050	9 995 104	9,659,104			= :	198 198 198 198 198 198	586	263,895	3,599,079
	Total Number.				1,724 1,724 8,135	670 1,935 2,202	3,428	90 507	25,00		3,734	4,055	34.0	II.	966'6	32,503
	Vesaels.		CANADIAN VESSELS.	Steam and Sak.	Sault Ste. Marie. Welland. St. Lawrence	Chambly Ottawa Rideau	St. Peters Trent Valley		Robin Canadani	UNITED STATES VERSELS.	Sault Ste. Marie	Chambly	Ottawa Rideau St. Peter's	Trent Valley. Murray.	Total United States	Grand Total Canadian and U. S.

 ${\it 10-11~EDWARD~VII.,~A.~1911}$  Table 3.—Statement showing the Number, Tonnage and Nationality of Vessels

Vessels.	Total Number of	From Ca to Canadian	- 1	From Canadian to United States Ports.		
	trips.	Up.	Down.	Up.	Down.	
SAULT STE. MARIE CANAL.	1		1			
Canadian Vessels, steam.	2,531 66	1,082,810 13,510	993,102 19,772	98,486	209,156 3,906	
Total Canadian	2,597	1,096,320	1,012,874	98,486	213,062	
United States Vessels, steamsail	3,679 55	136,221 7,897	83,127	55,615	176,566 4,007	
Total United States	3,734	144,118	83,507	55,615	180,573	
Grand total, Sault Ste. Marie Canal	6,331	1,240,438	1,096,381	154,101	393,635	
Welland Canal.						
Canadian Vessels, steam.	1,150 574	375,866 59,50 <b>b</b>	$325,428 \\ 54,943$	$\begin{array}{c} 114,631 \\ 37,723 \end{array}$	1,452	
Total Canadian	1,724	435,367	.380,371	152,354	1,452	
United States Vessels, steam	652 57	859	1,079 60	48,401 13,056	4,653 2,249	
Total United States	709	859	1,139	61,457	6,902	
Grand total, Welland Canal	2,433	436,226	381,510	213,811	8,354	
St. Lawrence Canals.				•		
Canadian Vessels, steam	4,046 4,089	723,100 507,068	$\begin{array}{c} 603,171 \\ 469,245 \end{array}$	14,281 7,615	* * * * * * * * * * * * * * * * * * * *	
Total Canadian	8,135	1,230,168	1,072,416	21,896		
United States Vessels, steam	634 502	75,339 40,147	2,922 18,034	87,618 33,226	40	
Total United States	1,136	115,486	20,956	120,844	40	
Grand total, St. Lawrence Canals	9,271	1.345,654	1,093,372	142,740	40	
CHAMBLY CANAL.						
Canadian Vessels, steam	278 392	28,511 4,210	28,536 5,658	135 15,940		
Total Canadian	670	32,721	34,194	16,075		
United States Vessels, steam sail	4,055		1,876	203,865		
Total United States	4,055		1,876	203,865		
Grand total, Chambly Canal	4,725	32,721	36,070	219,940		
Ottawa Canals	1					
Canadian vessels, steam	901 1,034	83,684 97,542	86,759 93,175	157	1,007 2,392	
Total Canadian	1,935	181,226	179,934	157	3,399	

SESSIONAL PAPER No. 20a
passed through the several Canals during the Season of Navigation in 1909.

	ted States o ates Ports.	From Unit to Canadian		Tons		Total Tons.	
Up.	Down.	Up.	Down.	Up.	Down.		
81,423	109,466 1,770	252,281	123,254	1,515,(00) 13,510	1,434,978 25,148	2,949,978 38,958	
81,423	111,236	252,281	123,254	1,528,510	1,460,426	2,988,936	
3,870,252 31,904	10,169,548 59,135	195,591 2,246	58,249	4,257,679 42,047	10,487,490 63,522	14,745,169 105,569	
3,902,156	10,228,683	197,837	58,249	4,299,726	10,551,012	14,850,738	
3,983,579	10,339,919	450,118	181,503	5,828,236	12,011,438	17,839,674	
191		4,460	166,827 	495,934 97,603	493,707 98,730	989,641 196,333 1,185,974	
1,168	100.0**	4,648	210,614	593,537	592,437		
263,284 4,111	198,355 1,650	3,147 1,764	121,513 13,703	314,832 19,790	$\begin{array}{c} 325,600 \\ 17,662 \end{array}$	640,432 37,452	
267,395	200,005	4,911	135,216	334,622	343,262	677,884	
268,563	200,005	9,559	345,830	928,159	935,699	1,863,858	
			114,329 38,168	737,381 514,683	717,500 507,413	1,454,881 1,022,096	
			152,497	1,252,064	1,224,913	2,476,977	
8,660 129	111 795	93	162,84: 59,276	171,710 73,502	165,915 78,105	337,625 151,607	
8,789	906	93	222,118	245,212	244,020	489,232	
8,789	906	93	374,615	1,497,276	1,468,932	2,966,209	
	,		14,545	28,646 20,150	28,536 20,203	57,182 40 353	
			14,545	48,796	48,739	97,535	
• • • • • • • • • • • • • • • • • • • •			205,278	203,865	207,154	411,019	
			205,278	203,865	207,154	411,019	
			219,823	252,661	255,993	508,554	
		294 472	98	84,135 98,014	87,864 95,971	171,999 193,985	
		766	502	182,149	183,835	365,984	

Table No. 3.—Statement showing the Number, Tonnage and Nationality of vessels 1909—

Vessels.	Total Number of	From Canadian		From Canadian to United States Ports.		
	Trips.	$U^{\dagger}p$ .	Down.	Up.	Down.	
Ottawa Canals.						
United States vessels, steam	3 243				12,581	
Total United States	246	2,649			12,581	
Grand total, Ottawa Canals	2,181	183,875	179,934	157	15,980	
Rideau Canal.						
Canadian vessels, steam sail sail	1,775 427	57,222 16,697	57,419 15,457	3,067	76	
Total Canadian	2,202	73,919	72,876	3,067	76	
United States vessels, steamsail	2 32	198	10 1,012	10	99	
Total United States	34	198	1,022	10	99	
Grand total, Rideau Canal	2,236	74,117	73,898	3,077	175	
St. Peter's Canal.						
Canadian vessels, steam	276 1,152	16,282 34,412				
Total Canadian	1,428	50,694	51,729			
United States vessels, steam sail.	8 3	215 78	502 126		• • • • • • • • • • • • • • • • • • • •	
Total United States	11	293	628			
Grand total, St. Peter's Canal	1,439	50,987	52,357	***********		
TRENT VALLEY CANALS.						
Canadian vessels, steamsail	2,947 783	68,853 16,869				
Total Canadian	3,730	85,722	88,206			
United States vessels, steam						
Total United States						
Grand total, Trent Vallay Canals	3,680	85,722	88,206			
MURRAY CANAL.						
Canadian vessels, steam sail	652 234	137,796 11,254	88.847 10,956	3,347 4,938		
Total Canadian	886	149,050	99,803	8,285		
United States vessels, steam sail sail	47 24	175 114	162 117	36 349	7	
Total United States	71	289	279	385	7	
Grand total, Murray Canal	957	149,339	100,082	8,670	7	

SESSIONAL PAPER No. 20a

passed through the several Canals during the Season of Navigation in Continued.

From Uni to United St	0	t	ited States o in Ports.	То	ns.	Total Tons.	
Up.	Down.	Up.	Down.	Up.	Down.	10115.	
• • • • • • • • • • • • • • • • • • • •		9,389		233 11,805	12,581	233 24,386	
		9,389		12,038	12,581	24,619	
		10,155	502	194,187	196,416	390,603	
		70	4,259	60,359 16,697	61,754	122,113 32,154	
		70	4,259	77,056	77,211	154,267	
		712	3 10	920	13 1,121	$\frac{13}{2,041}$	
		712	13	920	1,134	2,054	
• • • • • • • • • • • • • • • • • • • •	,	782	4,272	77,976	78,345	156,321	
	*			16,282 34,412 50,694	- 15,118 36,611 - 51,729	31,400 71,023 102,423	
		282		215 360	502 126	717 486	
		282	• • • • • • • • • • • • • • • • • • • •	575	628	1,203	
		282		51,269	52,357	103,626	
				68,853 16,869 85,722	70,833 17,373 88,206	139,686 34,242 173,928	
				85,722	88,206	173,928	
		180	3,354 4,882	141,143 16,372	92,201 15,838	233,344 32,210	
		180	8,236	157,515	108,039	265,554	
38	20	464 62	951 78	713 525	1,133 202	1,846 727	
38	20	526	1,029	1,238	1,335	2,573	
38	20	706	9,265	158,753	109,374	268,127	

Table 4.—Comparative Statement of the Traffic of all the Canals for the Years ending December 31, 1908 and 1909.

Articles.	1908.	1909.	Increase.	Decrease.
Class No. 1.	Tons.	Tons.	Tons.	Tons.
Canadian vessels, steam	5,201,093 1,579,696 7,881,570 639,569	6,150,224 1,661,354 15,726,035 733,287	949,131 81,658 7,844,465 93,718	
Total, class No. 1	15,301,928	24,270,900	8,968,972	
Class No. 2.	No.	No.	No.	No.
Passengers	280,830	272,222		8,608
Class No. 3.	Tons.	Tons.	Tons.	Tons.
Barley Buckwheat Corn Oats Rye Flax Pease Wheat Flour Hay Other mill products. Fruit and vegetables Potatoes Live stock Poultry, game, fish Dressed meats Other packing house products Hides and leather Wool All other animal products.  Total, class No. 3	174,628 \$58 153,713 225,659 26,661 234,738 286 3 199,031 228,605 18,259 28,234 23,838 6,858 1,907 2,220 106 2,273 101 4 10,177	176,577 6,789 180,203 432,769 7,688 206,750 326 3,397,567 324,044 36,503 57,288 15,036 9,457 1,635 3,201 573 3,201 594 4,875,298	1,949 5,931 26,49) 207,110 40 198,536 95,439 18,244 29,054 2,509 844 467 928 493 283 4,770 593,177	18,973 27,988 8,802 272 56,035
Class No. 4.  Agricultural implements. Cement, bricks, linue. Household goods and furniture. Iron, pig and bloom.  " and steel, all other Petroleum and other oils Sugar and salt. Wines, liquors and beers. Merchandise not enumerated.  Total, class No. 4.	11,378 191,411 4,718 52,952 227,284 87,456 22,709 10,193 542,029	18,836 489,745 2,517 98,667 309,188 90,980 104,474 18,314 723,680	7,458 298,334 45,715 81,904 12,524 81,765 8,121 181,651 717,472	2,201

Table 4.—Comparative Statement of the Traffic of all the Canals for the Years ending December 31, 1908 and 1909—Concluded.

Articles.	1908.	1909.	Increase.	Decrease.
Class <b>N</b> o. 5.	Tons.	Tons.	Tons.	Tons
Pulpwood Sawed lumber Squared timber Shingles Other woods.	467,306 417,229 53,072 9,990 39,834	883,937 668,780 31,772 8,992 95,665	416,631 251,551 55,831	21,300 998
Total, class No. 5	987,431	1,689,146	724,013	22,298
Class No. 6,				
Hard coal. Soft coal. Coke. Copper ore. Iron ore. Other ore.	1,006,259 2,521,850 52 8,855 7,402,672 87,415	$\begin{array}{c} 933,234 \\ 3,090,799 \\ 1,456 \\ 8,329 \\ 21,204,848 \\ 52,237 \end{array}$	568,949 1,,404 13,802,176	73,025 526 35,178
Total, class No. 6	11,027,103	25,290,903	14,372,529	108,729
Grand total	17,502,820	33,720,748	16,407,191	189,263

Net Increase, 16,217,928 tons.

Table 5.—Statement of Traffic on the Undermentioned Canals during the Season of Navigation in 1909.

							10-11 EDWARD VII., A. 1911
Trent Valley Canal.	Tons.	139,686 34,242	173,928	No.	70,373	Tons.	4 675 675 675 675 675 675 675 675 675 675
Murray Canal.	Tons.	233,344 32,210 1,846 727	268,127	No.	24,368	Tons.	348 277 277 10 145 45 45 6 6 6 6 6 6 823 323 329 329 329 329 329 329 329 329 3
St. Peter's Canal.	Tons.	31,400 71,023 717 486	103,626	No.		Tons.	3,780 1,318 1,318 2,528 2,528 2,532 2,532 8,2532 8,2532 8,2532 1,533
Ridean Ganal.	Tons.	122,113 32,154 13 2,041	156,321	No.	19,498	Tons.	307 307 307 1,474 1,474 1,284
Ottawa Canals.	Tons.	171,999 193,985 233 24,386	390,603	No.	21,731	Tons.	25 28 28 211 111 122 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Chambly Canal.	Tons.	57,182 10,353 411,019	508,554	No.	9,979	Tons.	17 48 686 686 18 19 17 17 12 12 12 12 12 12 12 13 13 14 14 14 15 17 17 17 17 17 17 17 17 17 17 17 17 17
St. Law- rence Canals.	Tons.	1,454,881 1,022,096 337,625 151,607	2,966,209	No.	97,371	Tous.	19,255 1,002 33,535 70,038 70,038 70,038 1,54 1,312 1,
Welland Canal.	Tons.	989,641 196,333 640,432 37,452	1,863,858	No.	3,092	Tons.	23,151 140,902 145,302 20,538 20,538 38,763 1,701 30,158 97 230 230 427 315 157
Sault Ste. Marie Canal.	Tous.	2,949,978 38,958 14,745,169 105,569	17,839,674	No.	32,810	Tous.	133, 708 5, 769 5, 769 5, 769 2, 232, 030 2, 232, 030 4, 164 1, 164 1, 184 1, 1
ARTOJES	Class No. 1.	Canadian vessels, steam. United States vessels, steam. " " sull"	Total, class No. 1	Class No. ".	Passengers	Class No. 3.	Barley Buckwheat Corn Corn Corn Corn Cors Cots Cots Cots Cots Cots Cots Cots Cot

SESSI	ONAL	PAPER:	No. 20a
-------	------	--------	---------

SE	SSIC	ONAL PA	PER No. 20a									
50	1,154		22 75 65 11 11 12 18 18 973	1,880		19,591 5,745 1,479 120 28,151	55,086		61	1,718	1,832	59,952
118	1,518		33,705 265 265 395 1,635 687 340 340 12,315	50,035		308	655		1,245	27,478	50,083	102,291
205	18,661		3,619 135 139 139 145 1,778 1,778 1,186	7,626		5,634 936 506 1,347	8,423		41,014	8,675	45,140	79,850
1,402	5,369		28.5 27,662 146 146 100 1,172 110 3,630 8,630 668	42,642		1,710 18.931 1 253 5,832	26,727		9,447 6,186	1,389	17,036	91,774
2,833	9,456		12,070 160 160 1,250 1,250 878 878 1,018 1,018	64,153		778 197,040 439 33,543	232,025		4,706 26,005	202	31,305	336,939
430	20,392		215 23 23 23 28 28 88 88 88 160 666 665 4	9,560		183,573 114,671 23 1,063	599,330		98,533	14,144	122,835	752,117
9,872	786,607		143 1,644 20,920 84,010 37,641 10,839 6,230 133,780	472,656		253,086 232,771 13,845 145	509,157		313,709 326,058	1.848	642,209	2,410,629
:	951,866		9,571 80,852 16,822 65,832 65,832 48,332 46,671 22,4,831	506,489		122,867 45,881 13,069 4,499	186,614		143,328	31,770	410,982	2,025,951
:	3,110,275		8,163 123,028 63 63 64,903 11,062 36,044 4,361 318,203	,710,360		2,331 47,789 2,187 7,206 11,616	71,129		361,518 2,435,781 1,440	8,323 21,156,915 5,104	23,969,481	27,861,245
All other animal	Total, class No. 3	7. Class No. 4.	Agricultural implements Cement, bricks, lime Household goods and furniture Iron, pig and bloom Iron and steel, all other Petroleum and other oils Sugar and sale. Wines, liquors and beers Wines, liquors and beers	Total, class No. 4	Class No. 5.	Pulpwood. Sawed lumber. Squared timber. Shingles. Other woods.	Total, class No. 5	Class No. 6.	Hard coul Soft coal. Coke	Copper orc. Tron ore. Other ore.	Total, class No. 6	(trund total

Table 6.—Summary Statement of Traffic on the undermentioned Canals during the Season of Navigation ended December 31. 1909, showing the total quantity of each description of property passed through.

ray Trent Valley al.	Jons. Toms. 268,127 173,928 No. No.	24,368 70,373 ons. Tons.	1 19,591 318 5,745 30 1,479 2 120 304 28,151	655 55,086	6 225 320 42		690
rter's Murray Canal.		<u> </u>	5,634 936 506 1,347	8, 423	2,532 2,832 2,86 2,86 2,86	202	3,047
au St. Peter's	1 1	T	1,710 18,931 1 25,832	20,727		: :	1,730
7a Rideau 1s. Canal.	T	15 T	225 225 439 33,543	333,025	526 112 239 239	2,833	3,735
ly Ottawa	Tons. 390,603	- E	<u>-</u>			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	430
nce Chambly Canal.	Tons. 508,554 No.	To To	\$ <b>=</b> :	57 599,330	: : : :	9,872	
St. Lawrence Canals.	Tons. 2,966,209	97,371  Tons.		14 509,157		151	12,877
Welland	Tous. 1,863,858 No.	3,092	1 122,867 9 45,881 7 13,069 6 2,388 6 4,499	186,614			4 1,129
Sault Ste.	Топя.	. 32,810 Tons.	2,331 47,789 1,187 1,580 1,1616	. 71,129		<u> </u>	174
ARTICLES.	Vessels of all kinds,	Passengers.  Forest - Produce of Wood.	Pulpwood Sawed lumber. Square timber. Simples. Other woods.	Total		Hides and leather	Total

SESSIONAL PAP	ER No.	. 20a
---------------	--------	-------

SES	SIONAL PAPER	No. 20a								
	- 671 - 675 675 675 -			751 751 65	#528g	1,880	61	1,718	1,832	59,952
	35 S S S S S S S S S S S S S S S S S S S	145 145 145 145 145 188 888		38,705 28,2 28,5 28,5 28,5 28,5 28,5 28,5 28,	1,635 685 340 660	50,035	1,245	27,448	50,083	102,291
	3,77 (1, 1, 2, 1,	2,528 522 1,200 6,243 15,614		3,619 135	139 145 175 189 189 189 189 189 189 189 189 189 189	1,186	282 1.0.14	3,675	45,140	79,850
	30 102 307 307 307 310	2,474 138 138 234 205 3,639		285 27.662 146	1,172 710 3,639 668	12,642	9,447	1.389	17,036	91,774
	250 47 880 380 111 111 1,111	1,352 644 867 1,139		42,070 160	1,250 878 4,262 1,018	64,153	4,706	293	31,305	336,939
	586 686 1.312 1.312	15,474 121 2,248 2,248 10,962		E16	188 188 199 199 199	9,560	98,533	14,144	122,835	752,117
-	19,255 1,902 33,535 70,038 20,152 20,152 273,832 28,895	9,789 7,070 8,203 1,312 773,730		449 1771 1,644	8,5,010 10,839 6,839	133,780	313,709	1,848	642,209	2,410,629
	23,151 140,902 75,135 20,538 20,538 590,196 38,763	30,158 97,158 97		9,574 80,852 16 -	65,832 48,852 46,671	506,489	143,328	31,770	410,982	2,025,951
	133,708 5,709 5,502 282,147 7,058 166,045 2,232,030 2,232,030	4,164 18,580 2,081 318 3,169,801	+	8,163 123,028 63	24,545 11,062 36,041 4,364	318,203	361,318	21,156,915 5,104	23,969,181	27,861,245
Agricultural Products.	Barley Buckwheat. Corn Oats Rye Flax Pease Wheat	Hay Other mill products Fruits and vegetables. Potatoes Total	Manufactures.	Agricultural implements	Iron, pig and bloom Iron, steel ,all other Sigar and saft. Wines, liquors and beers.	Merchandise not enumerated	Products of Mines. Hard coal.	Soft coat Coker. Copper ore Other ore	otal	Grand totals (passengers and tonnage of vessels not included)

10-11 EDWARD VII., A. 1911

Table 7 (No. 1)—General Statement showing the Quantity of each Article Transported on the Sault Ste. Marie Canal during the Season of Navigation in 1909.

	311 rgo.	United States.	•	5,990	2,435,781	3,030	36,292 32,103		5,987	22,576	14,586 7	361	8,323 8,323 21,153,576	4,306,4	191
	Origan of Cargo.	Canadian.	8,163	105,713 5,769 117,038		2,532	129,753 220,167	4,164	<del>3</del> ,		267,	11,255	3,339	6,756	
	Total Tons.		8,163	133,708 5,769 123,028 361,918	6.1	5,562	166,045 252,270	4,164	54,903		282,1 18,5		8,323 8,323 21,156.915		318
	ź	Down.	30	133,668 5,769 1,600		5,550	166,045 251,334	28.0	5,369	30,903	282,147 17,750		21,15	1,2	17
	Tons.	Up.	8,133	40 121, 428 361 918	2,372,301	3	986	2,081	49,534	304,646		8,618 1,367	1	9,825	301
	From United States to Canadian Ports.	Down.	30		. 01	1,619	5,631				7.48		66,019		
	From United St to Canadia Ports.	Up.	0 0 0 0	98	888,250		46		6,924	5.987				3,011	
	From United States to United States Ports.	Down.		\$2,397	30,080	3,931	98,815 82,876		2,935	3.841	2/	3.797	8,323 21,048,908	28	
	Fr United United Po	Up.		11,605	L,		- 83	11	3,212	30,619		1 367		900	
	From Canadian to to United States Ports.	Down.		16,238	3,500		29,213		- : :	1.588	16,938 120		13,776		
	From Canadia to United St Ports.	Up.		11,327	5,000			523	90.00	12		4		362	288
	From Canadian to Sanadian Ports.	Down.		35,033 5,769 1,600	6,400		38,017 162,467	29	જોલ		239,839	2,998	28,212	1,237	17
1	Ey Can Can Pc	Up.	8,133	10 98,496	102,775	12	795	3,601	36,338	256,060	830	8,618		6,372	273
	Articles,		Agricultural implementsAll others aminal.	Barley Buckwheat, Coment, bricks, etc Coal, hard	" soft	Corn. Dressed meats	Flax. Flour	Fruits and vegetables Hay Hides and leather	Household goods. Iron, pig and bloom	Live stock. Merchandise	Oats. Other mill products.	n woods	" copper.	Petroleun Poultry game and feb	Potatoes

SESSIONAL PAPE	R No.
1,312 16,342 2,256 7,989 324,615	24,494,750
2,331 2,746 31,447 4,950 2,187 2,865 1,907,415 4,364 70	3,366,495
2,331 7,058 47,789 7,206 7,206 2,187 36,044 2,232,030 4,364 70	27,861,245
2,331 7,058 46,630 7,206 2,134 2,219,264 2,219,264 70	3,421,743 24,436,502 27,861,245
1,159 13,109 12,766 4,306	1
240 61,681	167,881
7.0	1,000,300
6,393 12,178 6,966 1,050 35 764,212	22,188,388
11,155	1,736,801
2,250 26,919 1,060 400,330	512,293
9,000 mg	46,041
81 105 7,533 24 993,041	1,567,940
1,159 1,159 18,765 3,550	641,601
Pulpwood  Rye Sawed lumber Shingles Squared timber Sugar and salt Wheat Wines, liquors and beers	Total freight

Table 7 (No. 2) —General Statement showing the Quantity of each Article transported on the Welland Canal during the Season of Navigation in 1909.—Con.

SESSIONAL PAPER No. 20a

SESS	ION	AL I	PAPER	No. 2
	28,194	10,790	153,823 6 157	975,710
			436,373	1,050,241
122,867	45,881	13,069	590,196 4,899 157	2,025,951
or or	41,857	12,980	590,074 1,975 157	1,383,862
122,867	+,024	89 14,729	2,924	642,089
	2,834	9,190	166,431	551,837
				11,467
	24,327	125	17,940	196,838
		42,453	9	248,581
	14,696	1,475		16,469
122,867	3,984	57.	837	164,304
		2,190		618,718
	9	89 2,219	2,081	217,737
Potatoes Pulpwood	Sawed lumber.	Squared timber. Sugar and salt	Wheat Wines, liquors and beers. Wool	Total freight

Table 7 (No. 3).—General Statement showing the Quantity of each through Article transported on the Welland Canal during the Season of Navigation in 1909.

			•					10-11 EDWA	RD VII.,	A. 1911
f Cargo.	United States.		4,224 11,125 143,328 234,353	140,962	18,509		1,007 9 991	81,859 804 29,069 402 2,934 1,531	31,770 63 24,377 230	28,194
Origin of Cargo.	Canadian.	9,320	18,927			1,701	19,736 55,841	120,061 74,231 1,089 255	23,975	122,867 33 17,663
Total Tons.		9,574	23,151 67,252 143,328 234,353	140,902	.38,5 38,5	1,701		201,920 75,135 30,158 427 2,934 1,531	31,770 63 48,352 230	122.867 33 45,857
Tons.	Down.		23,151 6,069 1,530 234,353	140,902	20,534 38,763	315	2,405 18,414	17,065 75,135 30,143 402 2,934	31,770 63 48,256	41,857
T <sub>0</sub>	Up.	9,207	61,183			1,701	18,338 47,418	184,855 15 25 25 1,531	96 530	122,867
From United States to Canadian Ports.	Down.	88	5,769 1,530 233,953	39,935	2,650		1,007	9,5603 6,388 6,388 102 102	31,770	2,834
From United St to Canadi Ports.	Up.	•	11,067					400		
From United States to United States Ports.	Down.	254	4,224	100,967	15,452	315		22,620	3	24,327
From United Si United Si Ports.	Up.		6,804 130,731					66,826	230	
From Canadian to United States Ports.	Down.	• •								14,698
From Canadia to United St	Up.	• •					1,133	35,411	15	122,867
From Sanadian to Sanadian Ports.	Down.	833	18,927		20,538		1,398 8,355	1,701 72,263 2,135	23,879	
Cans Cans Poor	Up.	9,207	54,379			1,701	3 18,338 46,285	82,218 82,218 15 25	81	16
Articles.		Agricultural implements.	Barley Buckwheat Cement, bricks, &c Coal, hard	Coke	Dressed meats. Flax. Flour.	Fruits and vegetables. Hay Hides and leather	Household goods.  Iron, pig and bloom.  Iron and steel, all other.	Julye Brock Merchandise Oats. Other mill products " packing house products" " woods Ore, all other	,, copper Pease. Petroleum. Poultry, game and fish.	Potatoes Pulpwood Rye Sawed lumber.

SESSIONAL	PAPE
10,790 43,802 153,823 6 157	973,919
298 2,100 2,869 429,460 4,893	1,002,121
298 12,890 46,671 583,283 4,899 157	1,976,040
298 12,890 1,942 583,283 1,975 157	1,335,023
14,729	641,017
9,196 643 166,431 1,706	550,046
	11,467
125 1,196 17,940	196,838
42, 153	248,581
1,475	16,469
837.	164,304
2,100 103 398,912 269	571,670
2,219	216,665
Shingles Squared timber Sugar and salt Wheat. Wines, liquors and beers	Total freight

Table 7 (No. 4)—General Statement showing the Quantity of each way article transported on the Welland Canal during the Season of Navigation in 1909. APPENDIN A.- Continued

Ö	United States.		: :
of Car			
Origin of Cargo.	Canadian.	13,600 13,600 450 27,180 27,180 1,565	
Total Tons.		600 13,600 1 450 450 2 427 27,180 2	
	Down.	13,600 1,481 1,481	
l'ons,	å		
From United States to Canadian Ports.	Down.		
Fr United t Caus Po	Up.		
States States States ts.	Down.		
From United States to United States Ports.	Up.		
m dian States	Down.		
From Ganadian to United States Ports.	Up.		
From Canadian to Canadian Ports.	Down.	13,600 26,427	: :
From Canadia to Canadia Ports.	Up		
Articles.		Agricultural implements  All other animal Barley  Buckwheat  Coal, hard  Soft  Coke  Cone  Flax  Flax  Hay  Hides and leather  Front and seel, all other  Iron and seel, all other  Live stock  Merchandise  Oats  Other mill products  Other mods  Other packing house products  Other woods  Other packing house products  Percolemn.	Potatoes. Pulpwood

SESSIONAL PAPER No. 20a

0.0		: :	::	::	167,1
	· · · · · · · · · · · · · · · · · · · ·		:	::	1.5
	स	179	6,913		48,120
	亦	179	6,913		116,911
:		06	6,791		48,839
:	हों :	€	122		. 1,072
					1,791
:					:
:		: :			
24			: .		
8	. 9		0,001	:	
24				1 079	11,04
:	88	:	:	:	71667
Sawed lumber	Sanagles Squared timber	Sugar and salt.	Wines, liquors and beers.	Total freight	
Sawed lumber	Squared timb	Sugar and sal	Wines, liquor Wool	Tot	

Table 7 (No. 5).—General Statement showing the Quantity of each Article transported on the St. Lawrence Canals during the Season of Navigation in 1909.

		10-11 EDWARD VII., A. 1911
f Cargo.	United States.	10,908 117,473 117,473 2,689 2,689 2,689 2,689 4,852 4,852 4,852 4,852 10,77 10,70 10,7
Origin of Cargo.	Canadian.	448 9,872 11,002 17,004 17,002 1,003 1,003 1,003 1,003 1,003 1,013
Total Tons.		9,8729 19,2557 11,002 11,002 11,002 33,535 33,535 20,010 1,614 1,614 1,013 1,0
7.	Down.	8,559.3 18,559.3 18,580.3 186,890.3 186,890.3 18,775.2 14,124.3 16,659.3 17,773.3 18,891.3 18
Tons.	Up.	208 88, 988 88, 946 133, 168 133, 168 2, 960 103, 188 1, 128 104, 931 104, 931 104, 931 104, 931 104, 931 104, 931 104, 931 105 106 107, 168 108 108 108 108 108 108 108 10
From United States fro Canadian Ports.	Down.	4,985 9,301,566 1,85,574 9,772 2,839 2,839 4,916 4,916 8,84 15,577
United Can Po	Up.	3,778
From United States to United States Ports.	Up. Down.	ର ସମ୍ପର କୁ
From Canadian United States University	Down.	15 Sept. 15
Cam Cam	Up.	8
From Canadian to Canadian Ports,	Down.	144 8,593 19,167 18,7212 4,813 1,316 20,803 20,803 21,436 21,436 21,436 1,124 5,213 24,439 6,775 1,124 1,771 1,8
Cans Cans Po	Up.	2, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2
Articles.		Agricultural implements Mal other animal. Barley Buckwheat Coment, brieks, &c. Coal, hard  " soft Cohe Gorn Dressed meat. Flax Flax Flax Hour Fruits and vegetables. Hay Itides and leather Honsehold goods. Iron—pig and bloom Iron and steel, all other Jive stock Merchandise Other mill products Other packing house products. Other packing house products. Orber packing house products. Orber packing house products. Iron Passe Persoleum Peasse Persoleum Peasse Persoleum Poultry, game and fish Poutces

\$E	S	31	01	NA	\L	PAF	PΕ
		40	139,212	:	:	699,832	
145				6,230		780,421 1,630,208 2,410,629 1,710,797	
145				6,230		2,410,629	
	13,363			937	10	1,630,208	
145	482	10,059	17,047		:	780,421	
	:	96	125,036		:	3,759 661,557	
:	:	:	:	:	:	3,750	
-	:	:	:	:	:	36	
	:	:	:		:		
:	:	:	:	:	:	954 86,547	1
:	13,363	684	431,749	788	10	932,104 242,954	
145			17,047 431		:	533,572 932	1
			_		:		
Sh ng es	Squared timber	Sugar and salt	Wheat	Wines, liquors and beers.	Wool	Total, freight	
43	-	-2					

10-11 EDWARD VII., A. 1911

Table 7 (No. 6).—General Statement showing the Quantity of each through Article transported on the St. Lawrence Canals, during the Season of Navigation in 1909—Continued.

	gin trgo,	United States.		1,017 296,276 175,115	17,137 2,699 25	6,537 5,467 4,852 404	15,682
	Origin of Cargo.	Canadian.	183 5,065 19,143	27,694 707 11,140	814 278 19,634 19,231 6,033 1,701	1049 110,331 51,182 37 104,436 65,624 1,071 1,071 358	1,824 30 30 19,537 6
	Total Tons.		183 5,065 19,143	31,711 296,983 186,255	17,951 278 19,634 21,930 6,058 1,701	1049 119,331 17,719 57,719 65,624 65,624 6,923 7,62	1,824 30 35,919 66 67
	×.	Бомп.	83 4,990 19,143	17,700 294,580 175,115	17,137 200 19,634 21,905 6,011	15,517 105 115,517 32 21,470 65,624 5,876 600	34,122
	Tous	Up.	100	2,403 11,110	814 78 25 144 1,701	274 19,226 42,202 5 88,433 47 47	1.087
P	From Unived States to Canadian Ports,	Down.		4,985 289,969 176,115	9,772	6,537	15,577
1	Unire Car	Up.		1,696			
	From From to to Inited States United States	Down.					
	United (Inited Pc	Up.					
	From Canadian to United States Ports.	Down.					
	Fr Cang th United Po	Up.					
,	From Simadian to fonadian Ports.	Down.	83 4,990 19,143	12,715	7,365 200 19,634 19,546 5,989	8,980 8,980 16,883 16,883 65,624 260 216	1,824
	From Canadian to Canadian Ports.	Up.	160	14,011 707 11,140	814 78 25 25 44 44 1,701	19,226 42,202 55,88,433 162	1,087
	Articles.		Agricultural implements All other animal	Concent, bricks, &c Coal, hard	Control Dressed meats. Dressed meats. Flour. Fruits and vegetables.	1 : 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Ore, all other.  ' copper.  Randon  Pease. Petroleun. Poultry, game and fish. Potatoes.

SESSIONAL PAPER No. 2	20	١.
-----------------------	----	----

SESS	IONA	L P	\PE	RN
		139,212		667,463
10,713	:	41	:	1,060,101
249,497 120 10 713	:	551,525 5.105		451,961 1,275,603 1,727,564 1
120	900	550,775		1,275,603
249,497	7 936	4,209		
	96	125,036 149		1,696 639,507
				1,69(
• • • •		: :		
• • • • • • • • • • • • • • • • • • • •		::		
9				
120 231,243 9,476	· · · · · ·	: :	209 540 636 005 940 695	20,052
		9 747	00 389 0	2000
18,248	4,936			
Pulpwood Rye Sawed lumber	Squared timber or Sugar and salt.	Wines, liquors and beers.	Total freight	
20a	5			

10-11 EDWARD VII., A. 1911

Table 7 (No. 7).—General Statement showing the Quantity of each Way Article transported on the St. Lawrence Canals during the Season of Navigation in 1909.

	1												
Articles.	From Canadian to Canadian Ports	From Canadian to Janadian Ports.	From Canadian to United States Ports.	rom Canadian to United States Ports.	From United States to United States Ports.	Juited ss to States ts.	From United States to Canadian Ports.	Jnited tes adian ts.	Tons.		Total Tons.	Origin of Cargo.	f Cargo.
	d'a	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		Canadian.	United States.
Agricultural implements All other animal Barley Buckwheat Cement, bricks, &c Cod, hard Coke Cod, hard Coke Corn Dressed meats Flour Froits and vegetables Hay Hides and leather Fron—pig and bloomy Iron—pig and bloomy Iron and steet, all other Jive stock Nerchandise Other mill products To and steet, all other To and to the and	205 1,204 888 20,888 2,888 2,208 2,146 2,146 2,146 2,146 2,146 2,146 2,146 2,146 2,146 2,146 2,146 2,146 3,4	જ ત્ની જીવે જો દેવે જે :			ତୀ ରେଗର ପ୍ର		5,063	11,591	20 1 1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2.00	4, 266 119-7 116, 739 116, 739 116, 739 116, 739 116, 739 11778 11		
	2,206 1 330	216 112 956							2,206 1 330	216 112 955	2,422 113 1,285	1,022 113 1,285	1,400

S	ES	SI	NO.	IAL	PA	PE	R	No.	20a
---	----	----	-----	-----	----	----	---	-----	-----

SES	SSI	NC	AL I	PΑ	PE	RN	0
	:					32,369	
		19 945				969,069	
3,589	421 222,058	19.945	59,483	1,125	10	83,065	
685	185,717	12, 163	360	41	10	354.750	
2,904	36,341	482	5,123	1,084		328,315	
•						22,050	
						2,063	
:							
:						136	
	36,547			:		36,547	
2,229				:		2,229	
685	~	12,463		7		296,153	
675	36,341	182	16,297	1,084		223,887	
Pulpwood Rye.	Sawed lumber	Squared timber	Wheat	Whiles, liquors and beers		Total freight	

10-11 EDWARD VII., A. 1911

Table 7 (No 8).—General Statement showing the Quantity of each Article transported on the Chambly Canal during the Season of Navigation in 1909.

in go.	United States.	8 :	95,53			- : :	: ::	10,128	
Origin of Cargo.	Canadian.	968	624	<u>×</u>	2,812 2,812 15,474 	왕종 왕	1,415 686 121.	1,063	186
Total Tome.		430 430 71	915		1,312 2,248 15,474	888	5.65 5.65 5.65 5.65 5.65 5.65 5.65 5.65		14,144 181 188
38,	Down.		293,531		1,579	7 9 <u>9</u>	959 959 14	10,128	14,144
Toms.	Up.	65 27	653	3. 3.	1,312 669 7,702	51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,008	316	18
From United States to Canadian Ports.	Down.	162	291					10,128	14,14
Unite	<u> </u>	0 A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
From United States to United States Ports.	Down.								
Unite	Up.						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
From Canadian to United States Ports,	Down.				<u> </u>		521	080	
Can	C C		1.16		7,702	m 9 g			
From Canadian to Canadian Ports,	Down.	6) E			1,579	•	262 862 8	747	
Fr Cans t t Cans	Up.	69 12 17	27.5	. 4. . 30.	1,312	19 25 296 296	836 17 112	: ¥ 8 :	18 156
Articles.		Agricultural implements All other animal. Barley.	Constructs, &c. Coat, bricks, &c. Coat, mard.	Coke. Com. Dressed meuts	Flax Flour Fruits and vegetables Hay Hides and leather	Household goods. Iron-pig and bloom. Iron and steel, all other.	Merchandise Onts Other mill produces Other moking house ordures	Other woods. Ore, all other.	

SESSIONAL PAPER No. 20a

SES	SIO	NA	L F	PA	PE	R !	No. 20
				168			128,696
	483,573	114,671		717		:	623, 421
26	453,573	114,671	<b>8</b> 3	885	100	(io)	752,117
<u>।</u>	:			174	01	:	140,171
61	183,573	114,667	23	11.	5.05	:	611,946
				168			128,696
				:			
		:	: :	:			
		:		:		:	
		£3		:			99
ज्या	4 53,573	4 114,643		:	10		11, 175   696, 466
23		53 57		101	2.9		5,480 11, £
:			<u>:</u>				
Poultry, game and fish.	Rye.	Sawed lumber. Shingles.	Squared timber	Wheat	Wines, liquors and beers	W 0001	Total freight
Poultr Potato Pullante	Rye.	Shingle	Square	Wheat	Wines,	W 001.	

Table 7(No. 9).—General Statement showing the Quantity of each Article transported on the St. Peter's Canal during the Season of Navigation in 1909.

1-1		United States.	• • •	:::::::::::::::::::::::::::::::::::::::			10-	11 ED	WARD	VII., A.	1911
	Origin of Cargo,		2022	3,619 76 41,014	→ ∞	1,318 1,209 2,528	:8888 ::::::	1,182 3,780 599	1,345 3,603	- 12 12 28 e	_
li	•	Canadian.		7			•				
	Total tons.		2002	3,619 287 41,014	4.00	1,318 1,209 2,528	135 139 139	1,186 3,780 5,780	286 1,347 3,675	7.88 1.75 2.175	
	Tons.	Down.	500	2,863		12	121	194	3,603	<u> </u>	_
	To	Up.	<u>ज</u> िका स्ट	756 287 47	<del>4</del> ∞	1,303 1,209 2,528	4.65.63	3,780 599	367	2.04 2.04 2.05	
	From United States to Canadian Perts.	Down.				* * * * * * * * * * * * * * * * * * *					-
	From United St. to Canadia Ports,	Up.		140				· चं	্ গুলু		_
0	From United States to United States Ports.	Down.								0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Fr United United Po	Up.									
	From Canadian to United States Ports.	Down.									
	From Canadia to United St Ports.	Up.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							-
	From Canadian to Canadian Ports.	Down.	200	2,863		15	121	194	3,603	42	
	From Canadian to Canadian Ports.	Up.	61 IO IO	756 147 47	T X	1,303 1,209 2,528	14 63 53 4 :	8,5% 8,7% 8,7%	85 88 138 138	25. 158 403	-
	Articles.		Agricultural implements. All other animal. Banley	Buckweat. Cement, bricks, &c Coal, hard. Coal, soft. Coke	Corn. Dressed meats.	Floir. Fruits and Vegetables Hay History and Lother	Household goods. Iron-pig and bloom. Tron and steel, all other.	Merchandise Oats Other mill products	Other packing house products Other woods. Ore, all other	" copper " iron Pease Petroleum.	

SESSI	ONLAL	PAPER	No. 20-

SESSI	ONAL	PAP.	ER N	o. 20.
. :	! : - :	807	:°° :	18
				1
:::				Ì
6169	3179	00 00	<u>: :</u>	
2,532 6,243	:	1,778	294	79,150
01.00	. 10	т,	:	13
	:			
43.2	8%%:	936	297	18
2,532 6,243	5.50	9,1,7	. 01	79,850
	:		:	[-
	:		:	
2,314		157		52,052
οĩ				52
128	:0,58,8	62	295	86
218	. 50 51 10	1,776	: বী	27,798
	:		:	6.3
	:		•	l
::	: : : :	: :	: ; :	:
: :		: :		:
::	: : : :	_:_:_	: : :	:
		80+		629
<u>::</u> :	<u>: : : :</u>		: :	
::	: : : :	: :		:
::	: : : :	: :	: : :	
::		: :		
::	: : : :	: :		
•			: : :	1 :
::	: : : :		: : :	:
::		::		
::		: :		
2,314	609	22	G1 :	220
ด์		_		52,052
	<u>: : :</u>			
218 6,242	5,125	371 776	292	27,169
6,	. rç	-ŕ		27,
				-
	: : : :		. : :	
::		; :		
		: :		
_a			. 20 .	
fis		: :	pe .	:
and			and	ght
36	i.	ber lt.	2	frei
gan	n be	im I sa	onč	al
y, E	Paris	and t	:ž :	Total freight
Poultry, game and fish Potatoes Pulminged	Rye. Sawed lumber. Shingles.	Squared timberSugar and salt	Wines, liquors and beers.	
Pod	Say	Sugar	₩ K	

Table 7 (No. 10).—General Statement showing the Quantity of each Article transported on the Murray Canal during the Season of Navigation in 1909.

	Origin of Cargo.	Canadian.   United   States.	35 348 348	33,705 1,245 21,360			265 395 1,272 363	12,303 277 10	320 301 27,478	683
	Total		35 348 348	33,705 1,245 21,360	20 20 20 30 30	145	265 395 1,635		320 304 27,478	685
	Тоня,	Down.	3.18	880 573 21,360	160	130	: 683 833 833 833 833	3,074 277 10	155	300
		Up.	30.	32,825	: :9		207 370 952	9,241	26,928	388
	From United States to Canadian Ports.	Down.		2 573				(T)		
		Up.		672						
	From United States to United States Ports.	Down.								
		Up.								
	From Canadian to United States Ports.	- Down.							-	
		Up.	12-12		කල			1016	<b>50</b>	
	From Canadian to Canadian Ports,	Down.	3 8 8 8	8830		130	6833 6833	ಬ್ಬ	155	
	From Canadia	Up.	82	32,825	99	13	207 370 952 952	9,241	165 100 26,928	3885
ه ما	Articles.		Agricultural implements. Mil other animal. Sarley Ruckenter	Cement, bricks, &c Coal, hard Coal, soft.	Com. Drussed meuts Flax.	Flour. Fruits and vegetables. Hay.	Hides and leather. Household goods. Tron-big and bloom. Two and steel, all other.	Merchandise Oats Other mill products	Obber packing house products. Other woods. Ore, all other. " copper.	" iron Pease. Petroleum Poultry, game and fish.

St	-58	SIC	10	٧A	L	Ρ	Α	ы	E.R	No	. :
	•					55				23,037	
	:										
11	g	1	318	67	30	285		099	39	120	
		•	6.5			24		9		79,254	
30	£	:	318	C)	30	340		099	20	102,291	
		:								102	
50	9			:	:	100		360	:	29,179	
				:					:	62	
ĕ	:	:	· ·	: en	:	0	:	0	:	63	
-	4		318		30	240		300	ଦ	73,112	
_		:					:			100	
		:		:	:	:		:	:	21,935	
-	:	:	:	:	:		:	:	:	672	- 1
		:	:	:	:	:	:	:	:	19	1
			:	:	:	:	:	:	:		
				:	:	:	:	:	:	:	
		:	:	:	:	:	:	:	:	:	
	:	:	•	:	-	:	:	:	:		
		:	:	:	:	:	:	:	:		
	:	:	:	:	:	:	:	:	:	:	
-	·	:	:	:	: :	:	:	•	: !	<u></u>	-
:	:	:	:	:	:		:	:			
:	:	:	:	:	:	:	:		:	:	
	:	000	202	:	:	:	:	:	:	406	ì
:	:	:	•	:	:	:		:	:		
:	<u>:</u>	<u>:</u>		:	:	<u>:</u> _	:		:	-	
35	:	:		:		3		200		7,244	
	:	:	:		:		:		:	L-	
10]	<u>-</u>	. 9	30	300	010	2	: 8	200	3 1	34	
		:			G	1	6	٠ `		72,034	
:	:	:							:		
:	:				•		•	:	:	:	
	:	:			•			:	:	:	
	:	:						:			
	:	:					0,40			:	1
:							- Po		:	rht.	
	:						and			reig	
	:			ber	3.1		and	210	•	al f	
	8	·m		tin	200		101	3	•	Total freight	
Potatoes	Fulpwood	Sawed lumber	gles	Squared timber.	Sugar and sait.	Wheat	2	Wool	•		
ota	din.	awe	hin	qua	1193	Vhe	Vin	Voo			1
1		400	5	3	U.	junk	1	-			1

10-11 EDWARD VII., A. 1911

Table 7 (No. 11).—Genral Statement showing the quantity of each Article transported on the Ottawa Canals during the Season of Navigation in 1909.

						10-11	EDWARD	VII., A. 19
Origin of Cargo.	United States.		4,582			: : : : : : : : : : : : : : : : : : :		
of C	Canadian.	2, 233 2, 533 5, 59	42,070 124 26,005	7462	4 4	160 663 1,250 726 19 499	33,043 33,043 36,043	878 112
Total Tons		2,833 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	42,070 4,706 26,005	4 E E	1,111 807 1,352	160 663 1,250 526 13	33,543 552 552 552 553 553 553 553 553 553 55	87.8 11.2
	Down.	2.720	40,941	9	2000 2000 2000 2000 2000 2000 2000 200	2 4 4 1 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1	33,543 33,543 36	170 112
Tons.	Up.	194 113 59	1,829 25,995	शास्त्र च	1,017 307 106	106 662 1,209	135 135 16 217	108
States States dian ts.	Down.	• • •						
From United States to Canadian Ports.	Up.		3,922				922	
From United States to United States Ports.	Down.					* * * * * * * * * * * * * * * * * * *		
United United Pol	Up.							
From Canadian to United States Ports.	Down.		* * * * * * * * * * * * * * * * * * *				530	
From Canadia to United St Ports.	Up.							10
From Canadian to Canadian Ports.	Down.	2,720	40,241		. 54,		33,313 36,313 36,313	170
Can Can t Can Po	Up.	194 113 59	1,829 784 25,995		1,017 307 106	1,189 1,189	135 135 51 507	869
Articles,		Agricultural implements. All other animal. Barley	Suckwheat Genent, bricks, &c Coal, hard soft	Coke Corn Dressed meats	Flour. Fronts and vegetables. Hay Hides and leather.	Household goods. Iron-pig and bloom. Iron and steel, all other. Live stock.	Artenandrse Oate mill products Other mill products Other woods Other woods Ore, all other	" copper" Pease Petroleum Poultry, game and fish

SESS	IONA	L P	APE	R	No.	20a
			: :	:	5,835	
1,133	197,040	4.262 1262	1,018	10	331,104	
1,139	36 197,040 439	4,262	119	10	336,939	
832	196,760	225 65	8	10	282, 183	1
903	080	4,197	995		54,456	
						-
					5,175	
					:	1
		: :			:	
	42,103				42,333	
		38			150	4
	154,657		83.2	2	240,150	
307		4,112			49,131	
Potatoes Pulpwood Rve	Sawed lumber. Shingles	Squared timber Sugar and salt.	Wines, liquors and beers.		Total freight	The second secon

Table 7 (No. 12).—General Statement showing the Quantity of each Article transported on the Rideau Canal during the Season of Navigation in 1909.

		10-11 EDWARD VII., A. 19
Origin of Cargo.	United States.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
jo Dje	Canadian.	2,567 27,667 30 27,667 1,205 1,105 1,105 1,385 1,388 1,388 1,388
Total Tons.		285 1, 402 1, 6186 1, 102 1, 102 1, 102 1, 172 1, 389 1, 389
ž	Down.	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
Tops	Up.	188 15767 1,976 1,976 1,976 1,98 1,08 1,08 1,08 1,08 1,08 1,08 1,08 1,0
From United States to Canadian Ports,	Down.	4,789 4,789 10 10 10 10 10 10 10 10 10 10 10 10 10
F Unite Can	Up.	1,787
From United States to United States Ports.	Бомп.	
F Unite Unite	Up.	
From Canadian to United States Ports.	Down.	
Can: Can: Taited	Up.	2
From Canadian to Canadian Ports.	Down.	2888 8888 1157 1157 116 1178 1189 1189 1190 1
Can Can Can	Cp.	158 5144 5146 7777 1189 1189 1189 1189 1189 1198 11,081 11
$\lambda$ rticles.		Agricultural implements.  All other animal Barley Buckwheat. Coal, hard Soft. Cole Corn Dressed meats. Flux Fruit and vegetables Hay Hides and leather. Household goods Iron-pig and bloom Live stock Merchandise Other woods. Other packing house products

SES	38	SIC	DN	A	۱L	P	A	PE	ĒF	1	۷o.	. 20a
						:						14,131
710	œ	205	1,710		18,931	253		3,639	821	899	17	77,643
710					18,931					899		91,774
261	:	56	1,626		10,992		:					45,433
149	90	179	<del>+</del> 8		7,939	178	-	3,281	15	597	7	46,341
		:	:		**	:					:	12,148
	:	:	:		:	:				:	:	1,827
:	:	:			:					:	:	
:	:	:	:		:	:	:	:		:	:	
:		:	:	:	252	:	:	:	:		:	252
	:	:	•	:	324	:	:		:	:	:	394
261	:	92	-	:	10,737		:			71		33,033
449		179		: : : : : : : : : : : : : : : : : : : :	7,615					597		44,120
Petroleum	Poultry, game and fish	otatoes	nlpwood	γθ	Sawed lumber	Shingles	nared timber	Sugar and salt	Wheat	Wines, liquors and beers	loo	Total freight

Table 7 (No. 13).—General Statement showing the Quantity of each Article transported on the Trent Valley Canals during the Season of Navigation in 1909.

				1(	0-11 EDW	/ARD V	H., A. '	1911
gin rgo.	United States.							
Origin of Cargo.	Canadian.	152 157 157 157	· 13 · · · · · · · · · · · · · · · · · ·	™ : : : : : : : : : : : : : : : : : : :	. 120 g	28,151 1,718		168
Total Tons.		22 28 167 169	<u>9</u>	2	973 19	28,151 1,718	11961	168
ž	Down.	8.8		: : : §i	114	14,972	ি : কা	1
Tons.	Up.	, w	भ : <del> </del>	78 4	687	13,179	11 92	167
From United States , to Canadian Ports.	Down.							
Fr United , t Cans Po	Up.							
From United States to United States Ports.	Down.							
Fr United t United	Up.							
From Canadain to United States	Down.							
From Canada to United St	Up.							
From Canadian to Canadian Ports.	Down.	22 S S S S S S S S S S S S S S S S S S		06	336	14,9	· · · · · · · · · · · · · · · · · · ·	-
Fro Cana to Cans Por	Up.	327.	역 : : : ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	<sup>ក</sup> ត :ទ	637 19	13,179 42 4	1239	167
Arbdes.	Articles.		Coke. Coke. Coke. Cover. Dressed meats. Flax.	Fruits and vegetables. Hay. Hides and leather. Household goods.	troughy and moon brom and steel, all other Live stock. Merchandise Odats.	other packing house products.  Other woods. Ore, all other.	" " " " " " " " " " " " " " " " " " "	Potatoes.

19,591	18	3,745	1,479	16	559	18	21	59,952
19,591	00 1	9 00 17 00 10 10 10 10 10 10 10 10 10 10 10 10 1	1,479	16	559	18	¢1	59,952
19,052	:	1,101		\$1	:	x	63	42,183
539	100	1,011	631	#	559	02	:	17,819
:	:		:	:	:	:	:	
:	:		:	:	:			
			:	:	:	:		
:			:			:		:
		:	:					
	=		: :	:	:	:	1	
	:	1000						42,133
539								17,819
Pulpwood Rye	Sawed lumber.	Squared timber	Sugar and salt.	Wheat	Wines, liquors and beers.	Wool	1	Total freight,

Table 8.—Statement showing the Classified Tonnage of all kinds of Vessels passed

SAULT STE.

0							
U	A	N	A	1	П	A	N.

Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
2 3 4 5	5,000 to 5,142 tons. 4,000 m 5,000 m 3,000 m 4,000 m 2,000 m 3,000 m 1,000 m 2,000 m Under 1,000 m	$\frac{1}{2}$	5,142 4,361 6,775 17,333 75,254 20,278	2 3 4 5 6	5,000 to — tons. 4,000 " 5,000 " 3,000 " 2,000 " 3,000 " 1,00	4	

#### WELLAND

250 to 1,579 tons 2 200 " 249 " 3 150 " 199 " 4 100 " 149 " 5 0 " 99 " Under 50 " Total		430 2 675 3 450 4 60 5 625 6	250 to 989 tons. 200 " 249 " " " " " " " " " " " " " " " " " " "	3 675 4 670 6 600 1 50 1 15
---	--	--	---	---

# ST. LAWRENCE

	n 249 n 199 n 149 n 99 der 50	H H H H		7 7 10 22 36	1,520 1,145 1,185 1,625 706	2 3 4 5	200      150      100      50      Under	249 199 149 99 50	11 11 11 11		59 87 64	33,141 1,475 9,605 10,525 5,055 255 60,056
--	---	------------------	--	--------------------------	---	------------------	--	-------------------------------	----------------------	--	----------------	--

# RIDEAU, OTTAWA AND

2 3 4 5	250 to 372 tons	1 1 8	185 100 530	2 3 4 5	250 to — tons	5 39 52 17	1,025 6,375 6,650 1,290
5		36 ——		5		17 11	1,290 286 15,62 <b>6</b>

through the following Canals during the Season of Navigation in 1909.

# MARIE CANAL.

			UNITED	STATE	8,		
Class.	Steam Vessels.	No.	Tonnage.	Class	Sailing Vessels.	No.	Tonnage.
1 2 3 4 5 6	5,000 to 6,498 tons	50 77 137 45 59 51	96,016 19,905	1 2 3 4 5 6	5,000 to — tons	3 6 6 5 6	13,833 19,54 14,96 7,14 3,34 58,83
	Total	419	1,282,191			20	20,00
CAN	AT.						
1 2 3 4	250 to 1,673 tons 200 n 249 n 150 n 199 n 100 n 149 n	2	340 120	$\begin{array}{c c} 1\\ \frac{2}{3}\\ 4 \end{array}$	250 to 1,310 tons	1	1,923 200 160
5 6	00 " 99 "	17	420	5 6	Under 50 d	1	29
		84	51,542			17	2,610
CAN	ALS.						
1 2 3	250 to 1,609 tons	29	24,552	1 2 3	250 to 796 tons	10	5,25
5 6	100 n 199 n 100 n 149 n 50 n 99 n Under 50 n	1 3 4		4 5 6	100 " 149 " 50 " 99 " Under 50 "		4,434 8,240 6
		l l	25,010			142	17,98
CHA:	MBLY CANALS.						
1 2 3 4	250 to — tons			1 2 3 4	250 to — tons 200 " 249 " 150 " 200 " 100 " 149 "	9 440	
5 6	Under 50 "	1	$-\frac{174}{174}$	5 6	50 " 99 "	$\frac{199}{2}$	



# APPENDIX

# DOMINION CANALS

The canal systems of the Dominion, under government control in connection with lakes and navigable rivers, are as follows:—

First—The through route between Montreal and the head of Lake Superior (14 feet minimum depth of water.)

· · · · · · · · · · · · · · · · · · ·	Miles.
1. Lachine canal	81
Lake St. Lonis and River St. Lawrence	16
2. Soulanges' eanal	14
Lake St. Francis and River St. Lawrence	33
3. Cornwall canal	11
River St. Lawrence	5
4. Farran's Point canal	$1\frac{1}{2}$
River St. Lawrence	10
5. Rapide Plat canal	33
River St. Lawrence	4
6. Galops canal	$7\frac{1}{3}$
River St. Lawrence and Lake Ontario	236
7. Welland canal	$26\frac{3}{4}$
Lake Erie, Detroit river, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie canal	1
Lake Superior to Port Arthur	266
Total	1,223 <del>7</del> 2
To Duluth	

Second.-Ottawa to Lake Champlain.

1. Grenville. 2. Carillon. 3. St. Anne's. 4. Chambly. 5. St. Ours canals.

Third.—Ottawa to Kingston and Perth.

1. Rideau canal.

Fourth.—Lake Ontario at Trenton to Lake Huron at mouth of River Severn.

1. Trent canal (not completed).

Fifth.—Ocean to Bras d'Or lakes.

St. Peter's canal.
 20a—6½

#### 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 2,200 statute miles. The distance to Duluth is 2,343 statute miles. The distance to Chicago, 2,272 miles.

From the Straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal, the distance is 986 miles. From Quebec to Montreal, the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, 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 27½ 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, which 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.

Navigatiou, 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 St. Lawrence canals, 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 cauals, constructed between Montreal and Lake Superior, are the Lachine, Soulanges, Cornwall, Farran's Point, Rapide Plat, Galops, Murray, Welland and Sault Ste. Marie. Their aggregate length is 73 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 48. The Soulanges canal takes the place of the Beauharnois canal; the latter may be abandoned for navigation purposes.

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.

It is important to note that the chlargement of the canals on the main route between Montreal and Lake Eric comprises locks of the following minimum dimensions: Length, 270 feet; width, 45 feet; depth of water on sills, 14 feet. The length of the vessels to be accommodated is limited to 255 feet. At Farran's, in the canal of that name, the lock is 800 feet long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

#### LACHINE CANAL.

First construction commenced	1821
" completed	1825
First enlargement commenced	1843
" completed	1848
Second enlargement commenced	1873
" completed	1901
Length of canal	Sy statute miles.
Number of loeks	
Dimensions of locks	270 feet by 45 feet.
Total rise of lockage	
Depth of water lat two locks	18 "
on sills. (at three locks	14 "
	150 "

The old lift locks, 200 feet by 45 feet, are still available, with 9 feet of water on mitre sills.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end.

The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of the series of rapids which bars the ascent of the River St. Lawrence. They are 986 miles distant from the Straits of Belle Isle.

#### SOULANGES CANAL.

Construction commenced	1892
Open for traffie	1899
Length of canal	
Number of locks { lift	4
guard	1
Dimensions of locks	280 feet by 45 feet.
Total rise of lockage	S4 fcet
Depth of water on sills	15 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	
Number of arc lights	219 of 2,000 c. p. each.

The canal extends from Cascade point to Coteau Landing, overcoming the Cascade Rapids, Cedar rapids and Coteau rapids.

From the head of the Lachine to the foot of the Soulanges, the distance is sixteen miles.

# CORNWALL CANAL.

First commenced, 9 feet	1844
opened	1847
Enlargement commenced	1897
" completed	1900
Length of canal	11 statute miles.
Number of locks	6
Dimensions of locks	270 feet by 75 feet.
Total rise of lockage	48 feet.
Depth of water on sills	14 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	164 "

The old lift locks, 200 feet by 45 feet, are also available, with nine feet of water on mitre sills.

From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis, of 32<sup>3</sup> miles, which is being made navigable for vessels drawing fourteen feet.

The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickinson's landing.

#### WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat and Galops canals are collectively known as the Williamsburg Canals.

#### FARRAN'S POINT CANAL.

First commenced, 9 feet	
Enlargement commenced	
" completed	900
Length of canal	
Number of locks	
New lock	feet
Old lock	
Total rise or lockages 3½ feet.	
Depth of water on sills of new lock 14 "	
Depth of water on sills of old lock 9 "	
Breadth of canal at bottom 90 "	
Breadth of canal at water surface	

From the head of the Cornwall canal to the foot of Farran's Point canal, the distance on the River St. Lawrence is five miles. The latter canal enables vessels ascending the river to avoid Farran's Point rapid, passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

#### RAPIDE PLAT CANAL.

First commenced, 9 feet	1844
" opened	1847
Enlargement commenced	1884
" completed	1897
Length of canal	
Number of locks	
Dimensions of locks	fect.
Total rise in lockage 11½ feet.	
Depth of water on sills	
Breadth of canal at bottom 80 ".	
Breadth of canal at surface of water	

The old lift lock, 200 feet by 45, is also available, with nine feet of water on mitre sills.

From the head of Farran's Point canal to the foot of Rapide Plat canal, there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

#### GALOPS CANAL.

First commenced, 9 feet	1844
Opened	1846
Enlargement commenced	1888
" completed	1903
Length of canal	7 <sup>3</sup> miles.
Number of locks	3
	2-270 by 45.
Dimensions of locks. one of which is	1-800 by 45.
Total rise of lockage	15½ feet.
Depth of water on sills	14 "
Breadth of canal at bottom	80 "
Breadth of canal at surface of water	144 "

From the head of Rapide Plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. The canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

# MURRAY CANAL.

Construction begun	1882
Completed	1890
Length between eastern and western pier heads	
Breadth at bottom	80 feet.
Breadth at water surface	120
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 Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation.

#### WELLAND CANAL.

Main line from Port Dalhousic, Lake Ontario, to Port Colborne, Lake Erie.

Old Line.	Enlarged or New Line.
Length of Canal 27½ miles	263 miles
Pairs of guard-gates (formerly 3)	2
77 , ( lift 26	25
Number of locks { lift	1
Dimensions. $ \begin{cases} 1 \text{ lock } 200 \text{ x } 45 \\ 1 \text{ lock } 200 \text{ x } 45 \\ 1 \text{ (tidal) } 230 \text{ x } 45 \\ 24 \text{ locks } 150 \text{ x } 45 \end{cases} $	} 270 feet x 45 feet.
Total rise or lockage 3263 feet	326 <sub>4</sub> feet.
Depth of water on sills 104 "	14 "
Construction commenced, 10 feet 3 inches	1824
" Completed	1833
Enlargement commenced, 14 feet	1872
" completed	

#### 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 300 "				
Chippewa cut to River Niagara 1,020 "				
Number of locks—one at Aqueduct and one at Port Robinson				
	y 26½ feet.			
Total lockage from the canal at Welland down to	<i>J</i> 20 <del>3</del> 100%			
River Welland 10 f	eet.			
	eet 10 inches.			
GRAND RIVER FEEDER.				
Length of canal21 mNumber of locks2°	niles.			
Impresone of locks	of 150 by 26½ feet. of 200 by 45 feet.			
Total rise or lockage	8 feet.			
Depth of water on sills 9 fe	et.			
NAME WINE AND DRIVING				
PORT WELLAND BRANCH.				
Length of canal	S.			
Number of locks	by 45 feet.			
Dimensions of locks	•			

From Port Dalhousie to Allanburg, 113 miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line.

From Allanburg to Port Colborne, a distance of 15 miles, there is only one chan-

nel, the old canal having been enlarged.

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 the Sault canal, a distance of about 580 miles. From the Sault the distance through Lake Superior to Port Arthur is 266 miles, and to Duluth 400 miles.

# SAULT STE. MARIE CANAL.

Construction commenced	1888
Opened for traffic	1895
Length of canal, between the extreme ends of the	
entrance ·piers	5,967 feet.
Number of locks	1
Dimensions of locks	900 feet by 60 feet.
Depth of water on sills (at lowest known water	
level)	20 feet 3 inches.
Total rise or lockage	18 feet.
Breadth of canal at bottom	141 feet 8 inches.
Breadth at surface of water	150 feet.

This canal has been constructed through St. Mary's island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior. The masonry pier of the bridge carrying the Canadian Pacific Railway over the canal, which stood in the channel of the canal, forming an obstruction to navigation, has been removed; the swing new spanning the full width of the channel or prism of the canal.

# MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine canal, the navigation section of the lower River Ottawa, and the Ottawa canals, to the city of Ottawa; thence by the River Rideau and the Rideau canal to Kingston, on Lake Ontario—a total distance of 245\xi^2 miles.

After leaving the Lachine canal the works constructed to overcome difficulties of

navigation are:-

# Ottawa River Canals.

The Ste. Anne's lock. Carillon canal.

Grenville canal. Rideau canal.

The total lockage (not including that of the Lachine canal) is 509 feet (345 rise, 164 fall)—and the number of locks is 55.

The following table exhibits the intermediate distances from Montreal harbour:-

Sections of Navigation.	Intermediate Distance.	Total Distance, from Montreal.
The Lachine canal. From Lachine to Ste. Anne's lock Ste. Anne's lock and piers. Ste. Anne's lock to Carillon canal. The Carillon canal. The Carillon to Grenville canal. The Grenville canal. From the Grenville canal to entrance of Rideau navigation Rideau navigation ending at Kingston		23 23 50 51 57 63 119 245

#### STE. ANNE'S LOCK.

Construction commenced	1814.
" completed	1816
Rebuilt of wood	1833
" in masonry	1843.
Old Look.	New Lock.
Length of canal is mile.	a mile.
Number of locks 1	1
Dimensions of locks 190 x 45 feet.	200 x 45 feet.
Total rise or lockage 3 feet.	3 feet.
Depth of water on sills 6 "	9 "

This work, with guide piers above and below, surmounts the Ste. Anne's rapids between Ile Perrot and the head of the Island of Montreal, at the outlet of that portion of the River Ottawa which forms the Lake of Two Mountains, 23½ miles from Montreal harbour.

# THE CARILLON CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	¾ mile.
Number of locks	2
Dimensions of locks	200 x 45 feet.
Total rise or lockage	16 feet.
Depth of water on sills	9 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	110 "
This canal overcomes the Carillon rapids.	

From Ste. Anne's lock to the foot of the Carillon canal there is navigable stretch of 27 miles, through the Lake of Two Mountains and the River Ottawa.

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.

# GRENVILLE CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	5¾ miles.
Number of locks	5
Dimensions of locks	$200 \times 45$ feet.
Total risc or lockage	43¾ feet.
Depth of water on sills	9 "
Breadth of canal at bottom	40 to 50 fect.
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, up to which point the River Ottawa affords unimpeded navigation.

# RIDEAU NAVIGATION.

Construction	commenced	 	 	 	 	 	 1826
66	completed		 	 	 	 	 1832

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	126‡ miles.
Number of locks going from Ottawa to Kingston.	35 ascending.
	14 descending.
Total lockage	high water.
Dimensions of locks	134 x 33 feet.
Depth of water on sills	5 feet.
Navigation depth through the several reaches	41/2 "
TD 101 ( 1 1 1 1 -+ 1 -+ 1 -+ 1 -+ 1 -+	60 feet in earth.
Breadth of canal reaches at bottom	54 feet in rock.
Breadth of canal at surface of water	80 feet in earth.

#### PERTH BRANCH.

Construction commenced	1883	
" completed	1892	
Length of canal	7	miles.
Number of locks	2	
Dimensions of locks	134	feet x 33 feet.
Total rise or lockage	26	"
Depth of water on sills	5	" 6 inches.
Length of dam	200	44
Breadth of canal at bottom	40	44
Proposition of some of some of some	40	" in rock.
Breadth of canal at surface of water	60	" in clay.

The Perth branch of the Rideau canal affords communication between Beveridge's bay, on Lake Rideau and the town of Perth.

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 southwest 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.

#### RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the Rivers St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours lock to the basin of Chambly; thence, by the Chambly canal, to St. Johns, and up the River Richelieu to Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached. From the boundary line to New York the distance is 330 miles.

The following table shows the distances between Sorel and New York:-

Section of Navigation.	Intermediate Distance.	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	12 23 111 66	Miles.  14 46 58 81 192 258
Erie canal, from junction to Albany .  Albany to New York	146	265 411

#### ST. OURS LOCK DAM.

Construction commenced	1844
" completed	1849
Length	å mile.
Number of locks	1 "
Dimensions of lock	
Total rise of lockage	
Depth of water on sills	7 feet at low water.
Length of dam in eastern channel	300 **
Length of dam in 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.

#### CHAMBLY CANAL.

Construction commenced	1831
" completed	1843
Length of canal	12 miles.
Number of locks	
Dimensions of locks:	
Guard lock, No. 1 at St. Johns	122 feet.)
Lift " 2	124 " $\{\text{From } 22\frac{1}{2} \text{ to } \}$
" " 3, 4, 5, 6	118 " \ 24 feet wide.
" " 7, 8, 9 combined	125 " ]
Total rise or lockage	74 "
Depth of water on sills	7 "
Breadth of canal at bottom	36 "
Breadth of canal at 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.

#### TRENT CANAL.

The term 'Trent canal' is applied to a series of water stretches, which do not, however, form a connected system of navigation, and which, in their present condition, are efficient only for local use. By various works this local use has been extended, and by others, now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Trent, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course, as originally contemplated and modified, is as follows:-

Through the River Trent, Rice lake, the River Otonabee and Lakes Clear, Stony, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe; thence by the River Severn to Georgian bay, Lake Huron; the total distance being about 200 miles, of which only about 15 or 20 miles will be actual canal.

The full execution of the scheme, commenced by the Imperial Government in 1837, was deferred. By certain works, however, below specified, sections of these

waters have been made practicable for navigation, and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon lake south, affords communication with the town of Lindsay, and, through Lake Scuggg to Port Perry, a distance of 190 miles from Trenton.

The following table gives the distance of navigable and unnavigable reaches:-

		_	
Fron	a Trenton, Bay of Quinté to Nine Mile rapids .	. —	9
	Nine Mile rapids to Percy landing	$19\frac{1}{2}$	_
	Percy landing to Heeley's Falls dam	. —	$14\frac{1}{2}$
	Heeley's Falls dam to Peterborough		
	Peterborough to Lakefield	_	$9\frac{1}{2}$
	Lakefield to a point across Balsam lake	. 61	
		$132\frac{1}{4}$	33

Total distance, Bay of Quinté to a point across Balsam lake... 1651From Sturgeon point on Sturgeon lake, 483 miles from Lakefield, the branch through the town of Lindsay to Port Perry at the head of Lake Scugog..........

The works by which the Trent navigation has been improved comprise canals, with locks and bridges, at Young's point, Burleigh rapids, Lovesick, Buckhorn rapids, Bobcaygeon, Fenelon falls and Rosedale; also dams at Lakefield, Young's point, Burleigh falls, Lovesick, Buckhorn, Bobcaygeon and Fenelon falls. By these works there is afforded communication between Lakefield, 9½ miles from Peterborough, and Balsam lake, the headwaters of the system; opening up a total of about 160 miles of direct and lateral navigation.

At Lakefield, 9½ miles from Peterborough, the dam at the head of the Niue Mile rapids of the River Otonabee maintains navigation on Lake Katchewannoe up to Young's point.

At Young's point, 5 miles from Lakefield, the dam between Lake Katchemannoe and Clear lake controls the water level through Clear and Stony lakes up to the foot of the Burleigh canal.

At Burleigh rapids, 10 miles from Young's point, a canal, about 21 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 onefourth of a mile long.

At Bobcaygeon, 153 miles from Buckhorn rapids, a dam, 553 feet long, controls the water level to Fenelon falls.

At Fenelon falls, 15 miles from Bobcaygeon, a canal about one-third of a mile in length connects Sturgcon 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' x 30' x 4' 6' to 6' 6" depth water on mitre sill.
- 2 Locks at Fenelon.... 134' x 33' x 5' 0" to 7' 6" depth water on mitre sill.

1	44	Lindsay 134' x 33' x 5' 0" to 7' 6"	66	44
1	6.6	Bobeaygeon 134' x 33' x 5' 8" to 7' 0"	66	"
1	* 1	Buckhorn 134' x 33' x 5' 0" to 9' 0"	6.	44
1	.6	Lovesick 134' x 33' x 5' 0" to 9' 4"	46	46
2	.4	Burleigh 134' x 33' x 6' 0" to 8' 0"	64	66
1	b b	Young's point. 134' x 33' x 5' 0" to 14' 0"	64	66
1	16	Peterborough . 134' x 33' x 5' 0" to 10' 0"	66	66
1	64	Hastings 134' x 53' x 7' 0" to 10' 6"	**	66

Chisholms . . . 134' x 33' x 5' 0" to 8' 6" 1

# ST. PETER'S CANAL, CAPE BRETON.

Construction commenced	
" completed	1869
Enlargement begun	
" completed	1881
Length of canal	About 2,400 fcet.
Breadth at water line	50 feet.
Lock	One tidal lock, 4 pairs of gates.
Dimensions	200 feet by 48 feet.
Depth of water on sills	18 feet at lowest water.
Depth through canal	19 "
Extreme rise and fall of tide in St.	
Peter's bay	4 "

This canal connects St. Peter's bay on the northern 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.

# BEAUHARNOIS CANAL.

Construction begun	1842
" completed	1845
Length of canal	miles.
Number of locks 9	
Dimensions of locks 200 feet by	45 feet.
Total rise or lockage 82½ "	
Depth of water on sills 9 "	
Breadth of canal at bottom S0 "	
Breadth of canal at water surface 120 "	

As the new Soulanges canal is now opened for navigation, the Beauharnois canal is abandoned for navigation purposes.

# EARLIER CANALS.

A system of three canals preceded the Bearharnois. These were:-

#### COTEAU DU LAC CANAL.

Construction	commenced.	 						 		 1779
44	completed						 	 		 1780

#### SPLIT ROCK CANAL.

Construction	commenced.												1779
и	completed												1780

#### CASCADE POINT CANAL.

Construction	commenced.											1782
"	completed											1783

The locks were 20 x 6 feet, and provided for a draft of 2 feet. In 1814 the work of widening them to 12 feet was begun, and finished in 1817.

Two canals were also constructed off Burlington Bay, Ontario. They were:-

# BURLINGTON BAY CANAL.

Construction	commenced		 		 	 	 	 1825
44	completed	 			 	 	 	 1832

#### DESJARDINS CANAL.

Construction	commenced.									 	1826
46	completed									 	1837

Neither of these canals required locks. They have for many years been abandoned. The depth of water provided in the first instance was 7½ feet.

# ST. LAWRENCE NAVIGATION-TABLE OF DISTANCES.

FROM STRAITS OF BELLE-ILE TO PORT ARTHUR, AT HEAD OF LAKE SUPERIOR BY WATER.

		a .*	Statu	te Miles.
From	To	Sections of Navigation.	Inter- mediate.	Total to Straits of Belle-Ile.
Cape Whittle. West Point, Anticosti Father Point. Rimouski. Bic. Isle-Verte (opp. Saguenay). Quebec. Three Rivers. Montreal Lachine. Cascade Point Coteau Landing. Cornwall. Dickinson's Landing Farran Point. Upper end Croyle's Island. Williamsburg Rapide Plat. Point Iroquois Village. Presqu'. Ile. Point Cardinal Galops Rapids Prescott. Kingston Port Dalhousie. Port Colborne Amherstburg. Windsor. Foot of St. Mary's Island. Sarnia Footof St. Joseph's Island. Sault Ste. Marie. Head of Sault Ste. Marie. Point eaux Pins. Port Arthur to Lake Sheba Lake Shebandowan to Nort	Dickinson's Landing Farran's Point. Upper end of Croyle's Island. Williamsburg or Morrisburg. Rapide Plat Point Iroquois Village. Upper end Presqu'Ile Point Cardinal, Edwardsburg. Head of Galops Rapids Prescott. Kingston. Port Dalhousie Port Colborne. Amherstburg Windsor Foot of St. Mary's Island Sarnia. Foot of St. Joseph Island Foot of Sault Ste. Marie. Head of Sault Ste. Marie. Head of Sault Ste. Marie. Port Arthur Indowan. Hewest Angle.	River St Lawrence.  "" " to tide-water.  Lachine Canal.  Lake St. Louis.  Soulanges Canal.  Lake St. Louis.  Cornwall Canal.  River St. Lawrence.  Rapide Plat Canal.  River St. Lawrence.  Point Iroquois Canal.  Junction Caual.  Galops Canal.  River St. Lawrence.  Lake Ontario.  Welland Canal.  Lake Erie  River Detroit.  Lake St. Clair.  River St. Clair.  River St. Marie.  Sault Ste. Marie  Sault Ste. Marie  Lake Superior.	86 81 16 14 30 1112 5 34 102 4 4 4 23 23	240 441 643 649 661 700 826 900 986 994 1,021 1,053 1,065 1,071 1,081 1,090 1,093 1,095 1,105 1,164 1,334 1,360 1,635 1,635 1,635 1,635 1,635 1,933 1,935 1,

Of the 2,259\(^3\) miles from the Straits of Belle-He to the head of Lake Superior, 73\(^1\) miles are artificia navigation, and 2,188\(^3\) open navigation.

Straits of Belle-He to Liverpeol, 1,942 geographical or 2,234 statute miles.

The total fall from Lake Superior to tide-water is about 600 feet.

The steamboat voyage from Collingwood to Port Arthur is 532 miles.

Depot Harbour to Port Arthur is 510 miles; to Duluth is 644 miles; to Chicago 525 miles, and to Milwaukee, 442 miles.

# DEPARTMENT OF RAILWAYS AND CANALS

# CANAL STATISTICS

FOR THE '

# SEASON OF NAVIGATION

1910

PRINTED BY ORDER OF PARLIAMENT

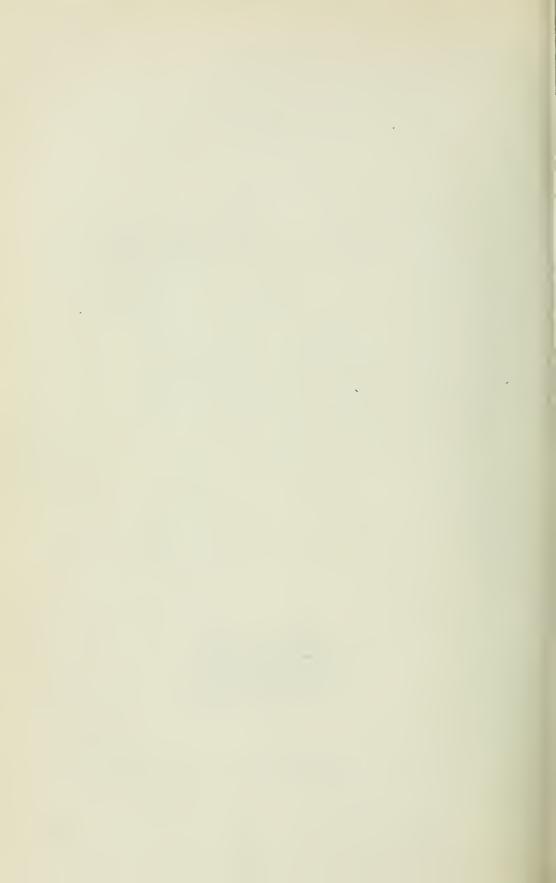


# OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY

1911

[No 20a-1911]



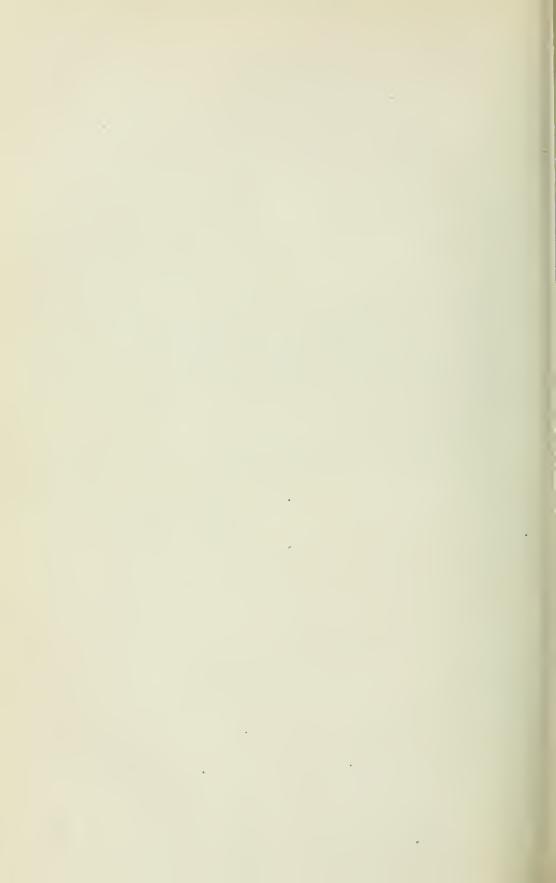
To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom and a Baronet; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, &c., &c., &c., Governor General of Canada.

# MAY IT PLEASE YOUR EXCELLENCY,

The undersigned has the honour to present to Your Excellency the report on Canal Statistics for the year ended December 31, 1910.

GEO. P. GRAHAM,

Minister of Railways and Canals.



To the Honourable George P. Graham,

Minister of Railways and Canals.

Sir,—I have the honour to submit the annual report of the Comptroller of Statistics in relation to the operations of the Canals of the Dominion for the year ended December 31, 1910.

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

A. W. CAMPBELL,

Deputy Minister of Railways and Canals.



# Office of the Comptroller of Statistics,

February 15, 1911.

# A. W. CAMPBELL, Esq.,

Deputy Minister of Railways and Canals.

Sir,—1 have the honour to submit to you herewith Canal Statistics for the year ended December 31, 1910.

It will be observed that there was a further substantial increase in the volume of traffic through the canals of the Dominion. The freight transported amounted to 42,990,608 tons, as compared with 33,720,748 tons in 1909. This betterment of 9,269,860 tons was equal to 27.5 per cent.

The freight traffic of 1910 was distributed among the various canals as follows:-

_	Tons.	Increase.
Sault Ste, Marie Welland. St. Lawrence Chambly. St. Peter's. Murray. Ottawa Rideau. Trent St. Andrew's	36,395,687 2,326,290 2,760,752 669,299 83,951 177,941 385,261 134,881 46,263 8,283 42,990,608	8,534,442 300,339 350,123 6,101 75,650 48,322 43,107 8,283 9,366,367

It may be explained that St. Andrew's lock, which was constructed in 1909 to overcome the rapids by that name in the Red River near Winnipeg, appears in the list of canals for the first time. The traffic which it makes possible is between Lake Winnipeg and the city of Winnipeg.

In order that comparison may be made with preceding years, and, at the same time, a demonstration afforded of the rapid expansion of Canadian waterborne business, the figures relating to tonnage for the past decade are given:—

1001		
1901	5,665,259	tons.
1902	7,513,197	11
1903	9,203,817	11
1904	8,256,236	11
1905	9,371,744	11
1906	10,523,185	11
1907	20,543,639	11
1908	17,502,820	11
1909	33.720,748	11
1910	42,990,608	11

1 GEORGE V., A. 1911

The growth during the first five-year period was equal to 65 per cent, and during the second period 308 per cent.

The business of the past three years was distributed among the various canals as follows:—

	1908.	1909.	1910.
Sault Ste. Marie Welland St. Lawrence Chambly St. Peter's Murray Ottawa Rideau Trent St. Andrew's	12,759,216 1,703,453 2,009,102 503,276 72,015 25,901 258,527 83,640 81,690	27,861,245 2,025,951 2,410,629 752,117 79,850 102,291 336,939 91,774 59,952	36,395,687 2,326,290 2,760,752 669,299 85,951 177,941 385,261 134,881 46,263 8,283

The classes of commodities which constituted the tonnage of the past two years with the volume of each, are shown in the following table:—

Canals.	Vegetable Products.	Animal Products.	Manu- factures.	Produce of Forest,	Produce of Mines.	Total.
1909.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Soo. Welland St. Lawrence. Chambly St. Peter's. Murray Ottawa Rideau Trent	2,832,388 850,018 718,461 780 3,794 628 668 1,268 664	277,887 71,848 68,146 19,612 14,867 890 8,788 4,101 490	710,360 506,489 472,656 9,560 7,626 50,035 64,153 42,642 1,880 1,865,401	71,129 186,614 509,157 599,330 8,423 655 232,025 26,727 55,086	23,969,481 410,982 642,209 122,835 45,140 50,083 31,305 17,036 1,832	27,861,245 2,025,951 2,410,629 752,117 79,850 102,291 336,939 91,774 59,952
1910.				<u>···</u>		
Soo. Welland St. Lawrence. Chambly. St. Peter's. Murray Ottawa Rideau Trent St. Andrew's.	2,530,396 982,346 856,611 783 4,603 20 723 1,433 298	304,729 60,880 83,754 23,288 14,867 4,544 8,111 3,576 765 153	862,526 516,333 497,007 21,834 7,889 162,506 72,294 76,299 8,672	100,613 154,737 564,328 • 496,119 10,124 3,471 268,199 40,026 35,849 7,952	32,597,423 611,994 759,052 127,275 48,468 7,400 35,934 13,547 679	36,395,687 2,326,290 2,760,752 669,299 85,951 177,941 385,261 134,881 46,263 8,283
Total	4,377,214	504,667	2,225,537	1,681,418	34,201,772	42,990,608

The proportion of commodities by classes is shown in the following comparison for 1909 and 1910:—

_	1909.	1910.
Vegetable products Animal Manufactures Produce of forests Produce of mines	Per cent.  13.6 1.5 5.6 4.9 75.0	Per cent.  10.2 1.2 5.2 3.9 79.5

#### TRANSPORTATION OF CANADIAN WHEAT.

The growth of the Canadian wheat trade has been reflected in the rising tonnage of the canal at Sault Ste. Marie. In order that the facts may be in mind, following is a statement of the volume of wheat which passed through that canal since it was opened for business in 1895:—

	Bushels.
1895	4,518,334
1896	19,314,234
1897	17,925,834
1898	9,746,600
1899	12,759,634
1900	9,292,034
1901	9,639,534
1902	27,912,500
1903	32,233,934
1904	29,794,100
1905	25,983,100
1906	34,389,300
1907	49,399,967
1908	58,574,034
1909	*48,047,833
1910	51,774,833

During the past year it became necessary, in the adjustment of statistical methods, to make a more or less thorough study with respect to the movement of Canadian wheat through the canal at Sault Ste. Marie. Errors had been made in the classification of wheat of Canadian origin, and it was important to ascertain the correct figures. The inquiry covered the years 1909 and 1910.

It may be explained, that up to 1908 it had not been the practice of this Department to identify the products of Canada or the United States when they passed through any of the canals. At Sault Ste. Marie this was the rule on both sides of the boundary. Hence, it was quite impossible to know the volume of Canadian wheat which came down from the West or to follow the course which it took. This was obviously a defect in our statistical work, and a change was made in 1908.

<sup>\*</sup>For the first time represents Canadian wheat only. The figures of preceding years include American wheat which passed through the Canadian Canal.

1 GEORGE V., A. 1911

A further explanation is necessary. At Sault Ste. Marie there are two canals, one on the Canadian side of the line and the other on the American side.

Both canals are free, and the captain of a vessel may select whichever one he may at the moment prefer. On the Canadian side the origin of all commodities passed through the canal is recorded. On the American side an account it is understood, has been kept during the past two years of Canadian wheat taking that route; but the facts are not officially made public. In any event, only the volume is ascertained. The subsequent movement of each cargo is not made a matter of record.

Using the corrected figures, the volume of Canadian wheat which passed through the Sault Ste. Marie Canal during the year 1910 was 1,553,245 tons, or 51,774,833 bushels. In 1909 the aggregate was 1,441,435 tons, or 48,047,833 bushels. In addition, 9,117,328 bushels of Canadian wheat passed through the American canal in 1909, and 5,321,446 bushels in 1910. Joining the shipments of Canadian wheat which passed through the two canals, the total was 57,165,161 bushels for 1909, and 57,096,279 bushels for 1910.

By a careful analysis of the ships' reports it was ascertained that the distribution of Canadian wheat which passed through the Canadian Canal at Sault Ste. Marie in 1909 and 1910 without reference to official figures appearing elsewhere and here corrected, was as follows:—

	1909.	1910.
Fort William to Montreal.  " " Georgian Bay " " " Georgian Bay " " " Buffalo Duluth to Montreal " " Buffalo " " Georgian Bay " " Georgian Bay	12,841,334 520,000 528,200 28,000	15,693,363
Total	9,117,328	51,774,833 5,321,446 57,096,279

As has been said, the course of Canadian wheat which passed through the American canal at Sault Ste. Marie cannot be followed. With respect to that which passed through the Canadian canal, however, the following summary illuminates the facts given in the preceding paragraph.

	1909.	1910.
Fort William to Montreal  " " Georgian Bay " " other Canadian ports " " Buffalo Duluth to Canadian ports " American "	Per cent.  21.9 27.9 21.1 26.7 1.3 1.1	25·5 24·6

With regard to the situation as a whole, it will be seen that 62 per cent of the Canadian wheat which came down from the West in 1910 followed Canadian channels from start to finish. The remaining 38 per cent passed in part or wholly through American channels.

It will be observed that last year 30·3 per cent of the wheat which was shipped eastward by water from the provinces of the Canadian west found an outlet by way of Buffalo. This took place in spite of the fact that both distance and rates were in favour of the St. Lawrence route. The freight rate which prevailed during the season was from  $3\frac{1}{2}$  to  $4\frac{1}{2}$  eents per bushel from the head of Lake Superior to Montreal. From either Duluth or Fort William to New York the rate was from 4 to 5 cents, according to the season. It would seem that the popular conviction with respect to the controlling force of distance and rates in the handling of a commodity like wheat, which is supposed to yield most easily to such influences, is not entirely sound. Other conditions may act as a countervail. They did in this instance to the extent indicated.

It may help to a better understanding of our inland waterborne trade if the conditions which caused the diversion to Buffalo of over 30 per cent of the Canadian wheat which passed through the Sault Ste. Marie canal in 1910, while only 25 per cent was delivered at Montreal, are briefly presented. It may not be considered improper to discuss the basic facts of the matter, frankly and fairly in a report of this character. On the surface it would appear reasonable to expect that a cargo of wheat taken aboard a vessel at Fort William, and consigned to Liverpool, would seek the nearest ocean port. Montreal happens to be that port. Moreover, the lake freight rate to Montreal last year was from a half to over one cent per bushel less than the combined vessel and rail rate to New York, via Buffalo. At Buffalo the entire cargo must be transferred to ears or to barges. Only a small percentage of the 15,693,363 tons of Canadian wheat which is definitely known to have gone to Buffalo in 1910 was carried by water to New York. The rail route commands the trade.

The conditions which operated against the St. Lawrence route in 1910, as in preceding years, were: First, the character of the vessels which ply between the head of Lake Superior and Buffalo; second, the ocean freight rates; third, the Atlantic insurance rate; and fourth, return cargo. The United States steamers engaged in the grain trade of the Great Lakes are much larger than those which can pass through the 14 feet waterway provided by the Welland and St. Lawrence canals. Such vessels can carry 450,000 bushels of wheat without lightering at Sault Ste. Marie. With a draft of 21 feet they cannot pass beyond Lake Erie. Many of them, too, are owned by the railways operating between Buffalo and New York. They have an advantage in the economical transportation of grain as against smaller steamers.

The ocean rates out of New York are lower than out of Montreal. The difference is from  $\frac{3}{4}$  to  $1\frac{1}{2}$  cents per bushel in favor of the former port. This situation is due to a number of causes, to which allusion need not be made here. The fact alone is of immediate importance.

The rates of marine insurance for vessels sailing out of Montreal during the season of 1910 were as follows: From the opening of navigation to 15th Soptember, 25 cents per \$100; from October 16th to 31st, 45 cents; from 1st to 15th November, 60 cents;

1 GEORGE V., A. 1911

from 16th November to close of navigation, 75 cents. From New York and Boston the rates were from  $12\frac{1}{2}$  to 15 cents, according to the class of steamer, throughout the entire year.

The fourth consideration—return cargo—is of relatively large importance. It was ascertained that United States steamers were able during the season of 1910 to obtain westbound cargo at Buffalo, chiefly coal, to the extent of a little more than 50 per cent. of their capacity. The return cargo obtained by vessels at Montreal did not exceed 25 per cent. So far as vessels bound for Fort William were concerned, it did not reach 15 per cent.

The distribution of Canadian wheat which passed through the Sault Ste. Marie Canal during the seasons of 1909 and 1910 disclosed another fact worthy of attention. Of the entire traffic, 43 per cent was carried to Georgian Bay and other Canadian ports west of Lake Erie. Thence it was transported by rail eastward, chiefly to Montreal. It is sufficient to give the statistical facts, without comment, which this movement has created. The vessel freight rate from Fort William to Georgian Bay has averaged about 2 cents per bushel for the past two years. During the middle of the season of 1910 it was from 1 to  $1\frac{1}{4}$  cents. To this must be added the rail rate from Georgian Bay to Montreal, which was from  $3\frac{1}{2}$  to 5 cents per bushels, including the cost of elevation at both terminal points.

#### SAULT STE, MARIE CANAL.

The canal at Sault Ste. Marie forms the chief gateway of the inland waterborne traffic of the Dominion. Eighty-four per cent of the aggregate canal business of 1910 passed through the lock at that point. Having regard to freight tonnage, the east-bound traffic represented last year over 87 per cent of the total, showing that the movement of commodities is principally in one direction. Iron ore has for some years held first place in the freight list of eastbound cargoes, while wheat comes next. The up, or westbound, movement consists, to the extent of about 70 per cent, of coal. In view of the important position of the Sault Ste. Marie Canal, the following comparative summary of statistical facts is of interest:

M. omort.	77	Sr Canal first operated Sept. 9, 1895. 238 239 239 240 241 255 255 258 258 258 258 258 258 258 258
DAYS OPEN.	No.	88888888888888888888888888888888888888
LOCKAGES.	. No.	699 699 699 697 697 697 697 697 697 697
	Total.	595,837 4,577,339 3,055,387 3,055,387 2,035,664 4,729,268 5,511,868 5,513,80 5,473,406 15,588,105 12,759,216 27,861,245
Freight Tonnage.	United States.	20,494,750 33,050,068
FREI	Canadian.	
Vessel Tonnage.		749,626,156 3,797,482 2,1757,683 2,194,803 2,149,748 4,604,502 4,23,746 4,23,746 4,23,746 4,23,746 1,2
Total	No.	1,192 1,193
U. S. Vessels.	Tonnage.	623, 023, 23, 38, 39, 34, 38, 39, 36, 38, 39, 36, 38, 39, 36, 39, 38, 39, 37, 37, 38, 37, 37, 38, 37, 34, 34, 39, 861, 281, 38, 37, 38, 38, 38, 38, 38, 38, 38, 38, 38, 38
U. S.	No.	. 583 2,3666 2,359 1,291 1,291 1,408 1,408 1,408 1,758 3,132 3,132 3,132 3,132 3,132 3,132 3,132 3,132 3,132
CANADIAN VESSELS.	Tonnage.	126,534 5584 405,546 405,546 405,531 577,5131 1,366,380 1,567,930 1,567,930 1,567,280 1,567,280 1,567,280 2,568,283 2,568,283 2,568,283 2,568,283 2,568,283 2,568,283 2,568,283 2,588,383
CAN	No.	609 11,19,000 11,19,
b.	rears,	1895 1896 1897 1899 1900 1900 1900 1906 1906 1906 1909 1909

# GENERAL STATISTICS.

STATEMENT of total Freight passed through the Canals for the following years.

Years.	FROM CAN TO CANADIAN	NADIAN F PORTS.	Proy Canapian To United States Ports.	NADIAN TES PORTS.	From United States to United States Ports	ED STATES TES PORTS.	Pron United States to Canadian Ports.	ED STATES OF PORTS.	Tons	ź	Toral Tons.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up and Down.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.			
	336,648 355,165 384,777 369,593		138,602 138,127 122,295 144,368	202,563 174,239 198,497 133,188	151,805 214,407 267,224 216,813	192,528 223,429 300,193 320,324	86,374 81,611 81,243 58,709	457, 482 428, 357 663, 311 533, 021	713,519 789,310 855,529 789,505	2,006,997 1,972,287 2,258,367 2,123,542	2,729,516 2,761,597 3,113,896 2,913,047
	327,560 351,560 351,706		103,814 173,538 214,076	123, 193 135, 787 141, 602	248,188 241,034 247,329	302,983 385,769	54,747 54,912	545,253 481,301 806,773	772,803 789,528 868,023	2, 123, 657 2, 242, 208 2, 678, 966	2,902,526 3,031,736 3,546,989
	299,155 264,824 908,353		204,175 286,191 259,650	89,614 91,177	231,172 362,637 1 107 945	363,107 608,778	46,020 62,285 117,535	588,866 590,140 867,040	780,522 975,937 1 867,799	9, 169, 193 9,360, 141 6, 193, 981	9,942,715 *3,336,078 7,991,073
	275,587 263,989		268,700 187,253	187,960 187,960 98,967	669,142 669,142 829,508	2,250,031 4,369,314 2,425,121	108,787	968,203	1,362,365	7,238,751 5,256,110	8,560,967
	296,208 312,201 310,805		266,364 270,033 968,449	115,133 81,714 901 231	732,030 568,197 507,204	2,129,988 1,339,915 1,801,696	125,678 105,155 177,715	727,111 703,563 682,065	1,255,586	4,805,644 3,758,107 4,371,086	6,995,924 5,013,693 5,665,959
	529,085 648,150		308,212 430,174	342,484	515,828 863,337	3,000,636	190,243	562, 229 958, 018	1,543,368	5,969,829	7,513,197 9,203,817
	736,976		549,365 627,094	347,089	607,228	3,183,895	577,528	1,137,146	2,451,097	6,920,647	9,371,744
	1,034,733		891,692 560,736	226,138 278,721	1,991,959	11,060,878 8,218,866	819,369 972,300	1,356,712	4,737,753	15,805,886 13,237,228	20,543,639
	2,319,740	3,504,849	1,060,715	667,894	1,985,522	22,385,226	1,023,829	1,544,054	5,744,349	27,976,399	33,720,748

\* Sault Ste. Marie canal opened in August, 1895.

STATEMENT of the Tonnage of Canadian and United States Vessels for the following years:—

## CANADIAN VESSELS.

Number	Vessels.	8,112,90,10,10,10,10,10,10,10,10,10,10,10,10,10	28,833 29,040 25,507
Torat. Tons.	and Down.	2,847,952 2,946,322 3,139,472 3,139,472 3,491,765 3,491,765 3,449,766 3,449,766 3,449,766 3,449,766 3,449,772 4,308,571 4,308,571 4,308,571 4,308,571 4,485,695 5,598,695 5,598,695 5,598,695 5,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,695 6,598,698	6,328,911 6,780,789 7.811,578 8,931,790
ź,	Down.	1,452,020 1,345,018 1,580,630 1,580,935 1,560,935 1,691,455 1,691,455 1,697,385 1,697,385 1,870,227 1,870,627 1,870,627 1,985,673 1,985,	3,181,816 3,381,685 3,835,535 4,343,815
Tons	Up.	1,395,932 1,295,304 1,494,952 1,558,537 1,775,176 1,775,489 1,518,440 1,518,440 1,985,510 1,985,510 1,985,510 1,985,510 2,886,510 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530 2,886,530	3,147,095 3,399,104 3,976,043 4,587,975
ED STATES  PORTTS.	Down.	221,013 189,876 222,565 223,565 224,176 224,176 225,696 225,789 225,78	553,922 398,387 513,907 627,046
FROM UNITED STAT TO CANADIAN PORITIS	Up.	39, 273 22, 553 14, 659 17, 837 17, 839 17, 839 11, 659 11, 659 11, 839 11, 83	238,172 348,944 257,945 287,555
ED STATES TES PORTS.	Down.	55 882 3802 3802 3802 3904 10 10 10 10 10 10 10 10 10 10	7,844 111,236 89,618
FROM UNITED STATES TO TO UNITED STATES PORTS.	Up.	1,071 1,252 976 929 929 1,466 1,172 2,177 1,172 925 925 1,874 1,874 1,874 1,874 1,874 1,820 2,420	9,155 5,057 82,591 95,151
INADIAN TES PORTS.	Down.	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	227,315 227,315 217,989 122,688
FROM CANADIAN TO TO TO TATES PORTS.	Up.	162 554 158,209 128,131 128,133 121,138 117,138 117,138 121,138 121,138 131,13	318,327 300,320 315,656
NAADIAN D N PORTS.	Down.	1, 194, 665 1, 120, 774 1, 207, 892 1, 207, 892 1, 207, 892 1, 207, 999 1, 460, 505 1, 165, 683 1, 420, 342 1, 420, 342 1, 683, 342 1, 681, 342 1, 587, 221 1, 887, 221 1, 897, 886 1, 997, 886 2, 983, 766 2, 983, 766 2, 983, 786 2, 983, 786 2, 983, 786 2, 983, 786 2, 983, 786 2, 983, 786 2, 983, 786	2,748,139   2,992,403 3,504,463
From Canadian TO CANADIAN PORTS.	Up.	1,201,529 1,113,290 1,113,290 1,314,127 1,356,518 1,548,619 1,258,848 1,258,948 1,704,661 1,704,661 1,704,661 1,865,643 1,767,938 1,767,938 1,615,932 1,914,167 2,201,358 2,201,358 2,201,358	2,726,776 3,335,187 3,891,613
VEARS.		1887 1889 1889 1890 1891 1895 1895 1896 1900 1900 1900 1906 1906 1906	1908 1909

STATEMENT of the Tonnage of Canadian and United States Vessels for the following years:-

UNITED STATES VESSELS.

Number of Vessels	z Z Z	888,6	4,542	3,364	500 K	4,585	4,131	4,650	4,675	4,204 6,101	5,502	5,634 1,134	5,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5	6,453	7,085	7,319	9,328	7,489	9,996	711, 402
Torai. Tons.	Up and Down.	566,680	830,648	721,397	871,795	1,286,295	2886,679	1,228,120	1,310,403	3,285,733	2,408,085	2,482,274	4 236 475	3,655,905	5,096,241	5,685,315	11,604,834	8,521,139	16,459,322	165,111,12
<i>±</i>	Down.	315,035	444,190	384,736	454,199	658,508	144,752	623,775	664,028	1,438,885	983,514	1,316,159	9,114,665	1,837,665	2,259,483	2,440,452	6,1-41,067	4,835,320	11,361,126	10,450,301
Tons	Up.	251,645	386,458	336,661	417,596	627,787	441,927	604,345	649,375	1,846,848	1,425,471	1,166,115	2,121,810	1,818,240	2,836,758	3,244,863	5,463,767	3,685,819	5,098,196	O, or Ob, more
ED STATES	Down.	98,840	160,442	97,266 146,603	172,594	307,740	185,730	290,370	347,698	234,336	150,971	224,622	335,836	305,697	456,459	118,436	623,941	536, 103	621,903	7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
PROM UNITED STATES TO CANADIAN PORTS.	(Tp.	52,798 46,778	56,249	86,18 28,0 88,0	37,037	50,994	32,295	40,416	# % # %	51,902	45,741	100 001	106,401	68,081	164,536	115,675	205,769	12.835	213,750	mana hayan
CD STATES	Down,	140,562	206,567	238,728	229,437	282,724	216,542	292,350	305,464	1,156,503	744,276	1,044,70,	1,689,414	1,475,085	1,701,704	1,928,131	5,376,060	4,142,392	10,429,544	
FROM UNITED STATES UNITED STATES PORTS	Up.	143,730	253,088	248,418 283,013	280,315	351,994	262,240	357,205	308,938 308,878	1,605,887	1,208,725	1 756 948	1,736,487	1,464,316	2,350,494	2,738,623	4,739,053	2,975,624	2,178,578 5,000 to	
NADIAN IES PORTS.	Down.	56,708	50,732	28,83 27,23	22,763	33,741	17,712	21,953	32,880	30,005	30,443	26,124	65,247	39,993	81,876	78,561	72,013	124,120	805,400 805,400 805,430	
PROM CANADIAN TO UNITED STATES PO	Up.	38,857	966,55	33, 136 73, 665	88,221	214,047	138,554	195,228	25,55	172,897	157,689	187 896	265,208	275,721	361,985	356,259	301,591	442,773	198 709	
NADIAN PORTS.	Down,	17,925	26,449	29,851	29,405	34,303	24,768	19,093	9,541	18,044	17,824	37.871	24,168	16,890	19,444	15,324	27.013	52,705	50,407	
FROM CANADIAN TO CANADIAN PORTS	Up.	16,265	21,125	10,357	12,023	10,702 18,598	8,838	11,496	12,142	17,217	13,316	13,699	14,044	10.122	19,743	34,306	01,540	01,000	119,922	
YEARS,	È	1887	1889	1891	1895	1894	1895	1896	1898.	1899	1900	1905	1903	1904	1905	1906	1000	1000	1910	

### CAPITAL EXPENDITURE.

The statement following brings the capital expenditure on the Canals of the Dominion down to March 31, 1910. It must be understood, however, that the total shown is apart from the outlay by the Imperial Government on the Carillon and Grenville Canal, as to which the records were lost in the destruction by fire of the Ordnance Office, Montreal, in 1852. The details are as follow:—

Canal.	Construction	n.	Enlargement	Total.	
	s	c.	. 8 0	. 8	c.
St. Peter's	648,547	14		. 648,54	7 14
Lachine				3 12,375,71	1.78
Beauharnois.				. 1,636,69	0.26
St. Lawrence River and Canals	18,442	85	3,451,470 5	6 = 3,469,91	3 41
Lake St. Louis			298,176 1	1 298,17	6 11
Lake St. Francis			75,906 7	1   75,90	6 71
Cornwall	1,945,624	73	5,289,142 4	1, 7,234,76	7 14
(Farran's Point			877,090 5	717	
Williamsburg   Galops Rapide Plat			6,118,927 3	2 10 10= 01	1 (0)
Williamsburg   Rapide Plat			2,158,242 0	$\begin{bmatrix} 10,485,61 \end{bmatrix}$	T 69
Williamsburg	1,320,655	54	10,696 2	61	
Welland	7,693,824	-03	20,813,039 1	6 28,506,86	3 19
Ste. Anne's	134,456	51	1,035,759 1	2; 1,170,21	5 63
*Carillon and Grenville	63,053	64	4,119,039 3	2 4,182,09	2.96
Culbute	382,776	46		. 382,77	6 46
Rideau				4,085,88	9 21
St. Ours				. 121,53	7 65
Chambly	637,214			3 681,00	1 09
Murray					6 71
Trent	7,873,501				
Tav					
Sault Ste. Marie.					
Soulanges					
				-	
Total	42,884,960	77	54,077,454 9	0[-96, 962, 41]	5 67

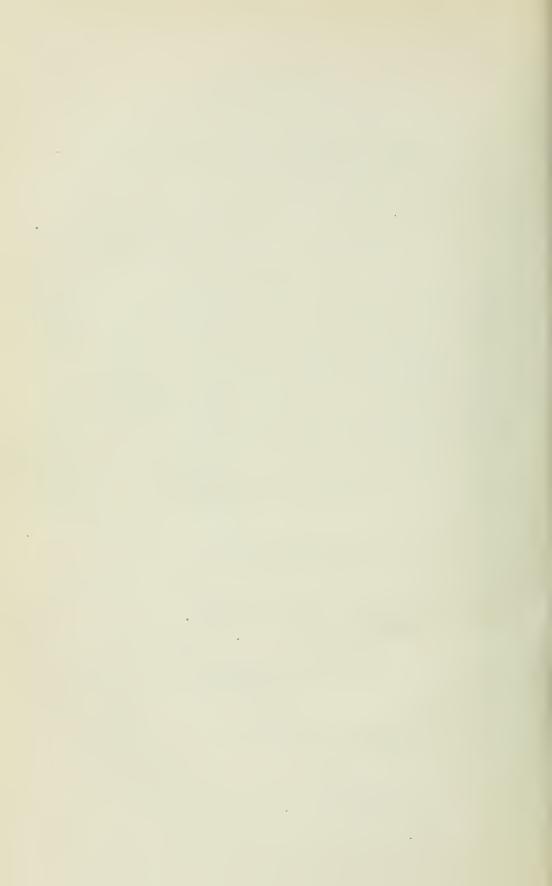
The cost of maintenance during the fiscal year 1910 was \$1,608,390.54.

Details of tonnage by canals and commodities will be found in the tables subjoined.

I have the honour to be, Sir,

Your obedient servant,

J. L. PAYNE, Comptroller of Statistics.



### CANAL STATISTICS

FOR

### SEASON OF NAVIGATION, 1910

### GRAIN PASSED DOWN WELLAND.

The quantity of barley, corn, oats, pease, rye and wheat passed down the Welland Canal, from ports west of Port Colborne for a period of twenty-nine years is as follows:—

QUANTITY PASSED DOWN TO MO	NTREAL.	To Ports in Ontario.	Quantity from U. S. Port to U. S. Ports.
	Tons.	Tons.	Tons.
32	180,694	1	63,881
33	186,814	10,650	121,876
34	142,194	12,153	104,537
35	96,569	11,909	117,346
36	203,940	9,881	151,551
37	185,034	11,838	134,868
88	160,358	25,599	169,664
99	267,769	19,075	213,766
00	288,513	16,899	245,932
ii	(295,509	6,805	202,710
2	261,954	8,942	201,540
3	501,806	25,555	222,958
4	273,651	16,699	203,979
5	231,491	32,096	133,823
6	461,049	73,386	160,372
7	* \ 560,254	53,257	157,756
8	* 519,532	31,279	144,612
9	332,746	40,197	68,011
	244,661	17,525	84,589
1	151,566	13,732	83,370
2	208,215	22,787	
3	351,936	29,062	81,164
4	198,246	29,002	111,828
	341,431	42,061	102,523 129,270
5			
	404,935	33,351	176,119
7	635,573	42,032	163,295
8	756,141	38,142	135,172
9	$652,742 \\ 789,661$	40,238 63,657	129,587 115,457

During the last decade the quantity of agricultural products as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 151,566 tons in 1901 to 789,661 tons in 1910, and the quantity passed down the Welland Canal from United States ports to United States, has increased from 83,370 to 115,457 tons the same years.

 $20a - 2\frac{1}{2}$ 

The quantity of barley, buckwheat, corn, oats, pease, rye and wheat, arrived at Montreal via Grand Trunk and Canadian Pacific Railways for a period of 14 years, is reported as follows:—

		Tons.
For	1897	228,611
	1898	293,391
		209,170
	1900	229,624
	1901	227,700
	1902	263,861
	1903	253,959
	1904	154,625
	1905	148,377
	1906	386,963
	1907	383,735
	1908	285,262
	1909	426.163
	1910	

The quantity of the same articles passed down the whole length of the St. Lawrence Canals to Montreal for the same period was:—

		Tons.
For	897 6	04,200
		75,097
	899	72,291
	900 2	95,928
	901 2	03,316
	902 2	242,225
	903 4	00,057
	904	220,076
		375,630
	906 4	49,673
	907	84,697
	908	76,374
	909	552,742
	910 7	89,661

Comparative shipments of grain by the St. Lawrence route, and Railways, 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 Canal to Montreal, is as follows:—

1909	
Showing an increase of	136,919

The quantity of grain and pease earried to Montreal via Canadian Pacific and Grand Trunk Railways is reported as follows:—

		 ,
1910	 	 • • • • • •
Showing	 	 

### TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston and Prescott for fifteen years is as follows:—

In Canadian vessels there were in-

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						Tons.
1897, 180       n       229,265         1898, 166       n       n       224,021         1899, 162       n       n       221,306         1900, 325       n       n       183,200         1901, 112       n       n       132,558         1902, 131       n       n       218,840         1904, 115       n       n       218,840         1905, 167       n       n       239,418         1906, 205       n       n       314,605         1907, 255       n       n       598,941         1909, 308       n       550,276	1896,	196	cargoes, with an	aggregate quantity	of	227,912
1899, 162       n       n       221,306         1900, 325       n       n       183,200         1901, 112       n       n       132,558         1902, 131       n       n       175,514         1903, 170       n       n       218,840         1904, 115       n       n       174,121         1905, 167       n       n       239,418         1906, 205       n       n       314,605         1907, 255       n       n       427,813         1908, 355       n       n       598,941         1909, 308       n       550,276						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1898,	166	11	U		224,021
1901, 112     n     n     132,558       1902, 131     n     n     175,514       1903, 170     n     n     218,840       1904, 115     n     n     174,121       1905, 167     n     n     239,418       1906, 205     n     n     314,605       1907, 255     n     n     427,813       1908, 355     n     n     598,941       1909, 308     n     550,276	1899,	162	11	11		221,306
1902, 131       0       175,514         1903, 170       0       0       218,840         1904, 115       0       0       174,121         1905, 167       0       0       239,418         1906, 205       0       0       314,605         1907, 255       0       0       427,813         1908, 355       0       0       598,941         1909, 308       0       550,276	1900,	325	11	11		183,200
1903, 170     n     n     218,840       1904, 115     n     n     174,121       1905, 167     n     n     239,418       1906, 205     n     n     314,605       1907, 255     n     n     427,813       1908, 355     n     n     598,941       1909, 308     n     550,276	1901,	112	ti -	H		132,558
1904, 115       0       0       174,121         1905, 167       0       0       239,418         1906, 205       0       0       314,605         1907, 255       0       0       427,813         1908, 355       0       0       598,941         1909, 308       0       550,276	1902,	131	11	11		175,514
1905, 167     n     n     239,418       1906, 205     n     n     314,605       1907, 255     n     n     427,813       1908, 355     n     n     598,941       1909, 308     n     550,276	1903,	170	11	Ħ		218,840
1906, 205     0     0     344,605       1907, 255     0     0     427,813       1908, 355     0     0     598,941       1909, 308     0     550,276	1904,	115	11	11		174,121
1907, 255 " 427,813 1908, 355 " 598,941 1909, 308 " 550,276	1905,	167	H	11		239,418
1908, 355 11 598,941 1909, 308 11 550,276	1906,	205	11	H		344,605
1909, 308	1907,	255	11	0		427,813
,	1908,	355	11	11		598,941
1810, 383	1909,	308	н	t.		550,276
	1810,	383	11	11		679,358

In the United States vessels there were in-

					Tons.
1896. 13	58 cargoes, w	ith an aggregate	quantity	of :	217,978
1897, 19	97	00 0	11		285,847
1898, 33	39		11		464,852
1899, 10	37		11		205,571
1900, 25	59		13		163,575
1901, 13	35		11		123,229
1902, 13	35 "		11		
1903, 21	19		tr		273,986
1904, 11			11		150,359
1905, 23			11		273,344
1906, 1			11		269,800
1907, 26			11		413,087
1908, 2			T)		
1909, 17			11		
1910, 18	82		0		295,714

One hundred and sixty-two Canadian and 49 American vessels took cargoes of 343,733 tons through to Montreal intact in 1908; 87 Canadian and 9 American of 135,582 in 1907; 74 Canadian and 10 American of 108,734 tons in 1906; 96 Canadian and 18 American of 180,206 in 1905; 56 Canadian and 16 American of 116,095 tons in 1904; 56 Canadian and 18 American of 99,582 tons in 1903; 19 Canadian and 17 American of 34,804 tons in 1902; 23 Canadian and 2 American of 17,303 tons in 1901, 15 of 7,924 tons in 1900, 2 of 558 tons in 1899, 7 of 2,426 in 1898, 7 of 2,324 in 1897, 3 of 1,176 in 1896, 4 of 1,344 tons in 1905, 2 cargoes of 810 tons in 1894, none in 1893, 2 in 1892 of 924 tons, and 3 in 1891 of 1,441 tons. Three vessels lightened a portion of their cargoes in 1901, 9 in 1900, 11 in 1899, 25 in 1898, 11 in 1897, 16 in 1896, 6 in 1895, 19 in 1894, 34 in 1893, 25 in 1892, and 44 in 1891; 222 vessels discharged the whole of their cargoes at Kingston in 1901, 540 in 1900, 316 in 1899, 473 in 1898, 359 in 1897, 335 in 1896, 169 in 1895, 188 in 1894, 369 in 1893, 220 in 1892, and 293 in 1891.

The quantity of grain transhipped at Port Colborne in 1909 and the four previous years was as follows:—

Articles.	1905.	1906.	1907.	1908.	1909.
Wheat Corn Rye. Oats Barley Flaxseed	104,027	1,009,474  110,629 $29,118  2,103$	1,428,300 112,036 30,824		2,686,963

### WELLAND CANAL,

The total quantity of freight passed on the Welland Canal during the season of 1910 was 2,326,290 tons; of this quantity 44,771 tons was way or local freight.

There were 1,601.456 tons of freight passed eastward, and 724,834 passed west-ward.

### East and West bound Through Freight.

The total quantity of through freight passed through the whole length of the Welland Canal during the season of 1910 was 2,281,519.

Of this quantity 1,557,283 tons were east bound and 724,236 west bound freight. Of the east bound through freight, Canadian vessels carried 1,146,457 tons and United States vessels carried 410,826 tons; and of the west bound through freight Canadian vessels carried 357,019 tons and United States vessels carried 367,217 tons, or a total of 1,503,476 tons for Canadian and 778,043 tons for American vessels.

### ST. LAWRENCE CANALS.

The total quantity of freight passed through these canals during 1910 was 2,760,752 tons; of this quantity 1,916,733 tons passed eastward and 844,019 passed westward.

### East and West bound Through Freight.

The total quantity of through freight was 1,959,771 tons; of this quantity 1,488,551 tons were east bound and 471,220 tons were west bound.

### Way Freight.

Of the total quantity of (way) or local freight 428,182 tons were east bound and 372,799 tons west bound freight.

THROUGH TRAFFIC BETWEEN MONTREAL AND PORTS ON LAKE ERIE. MICHIGAN, ETC.

The total quantity of through freights passed eastward from Lake Eric and westward from Montreal through the Welland and St. Lawrence canals, during fifteen years, was as follows:—

	Eastward, to Montreal. Tons.	Westward, from Montreal. Tons.
1896	480,077	10,050
1897		4,542
1898		4,436
1899		5,991
1900	288,251	6,217
1901	184,420	13,714
1902	250,475	25,289
1903	390,786	100,699
1904	278,328	71,512
1905	448,704	72,482
1906.		96,791
1907	789,167	1,281
1908		3,472
1909		191,510
1910		172,360

THROUGH FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

The total quantity of through freight passed eastward and westward through the Welland Canal, from United States ports to United States ports, for a period of fifteen years, was as follows:—

	Eastward. Tons.	Westward. Tons.	Total. Tons.
1896	385,695	267,518	653,213
1897	353,863	210,831	564,694
1898	277,023	210,516	487,539
1899	225,491	135,038	360,529
1900	218,969	99,560	318,529
1901	190,476	83,543	274,019
1902	224,110	44,919	269,029
1903	221,074	149,151	370,225
1904	165,337	87,144	252,481
1905	190,547	112,549	303,096
1906	237,226	84,205	321,431
1907	218,997	177,660	396,657
1908	209,518	239,136	448,654
1909	196,838	248,581	445,419
1910	197,301	288,198	485,499

The total quantity of freight passed through the Welland Canal from United States ports to United States ports shows an increase of 40,080 tons as compared with the previous year; and a decrease of 167,714 tons as compared with 1896.

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 years 1867 to 1910 inclusive.

Price   Pric			5 1 1	
1867.	Fiscal Year.	number of	transported on the Welland	passed from United States ports to United States
1888.		No.	Tons.	Tons.
1872.         6,063         1,333,104         606,627           1873.         6,425         1,566,484         656,298           1874.         5,814         1,389,173         748,557           1875.         4,212         1,088,050         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.         3,666         4284,043           1880.         4,104         819,934         179,665           1881.         3,332         666,566         194,173           1882.         3,334         790,643         282,806           1883.         3,267         1,005,156         432,611           1884.         3,384         790,643         282,806           1885.         3,267         1,005,156         432,611           1886.         3,387         784,928         384,509           1886.         3,589         980,135         464,478           1887.         2,738         784,928         384,509           1888.         2,647         878,800         434,7	1868. 1869. 1870.	6,157 6,069 7,356	1,161,821 1,231,903 1,311,956	641,711 688,700 747,567
1873.         6,425         1,506,484         656,298           1874.         5,814         1,389,173         748,557           1875.         4,212         1,038,500         477,809           1876.         4,789         1,099,810         488,815           1877.         5,129         1,175,308         493,841           1878.         4,429         968,758         373,738           1879.         3,960         865,664         284,043           1880.         4,104         819,394         179,665           1881.         3,332         686,506         194,173           1882.         3,334         790,643         282,806           1883.         3,267         1,005,156         432,611           1884.         3,188         837,811         407,079           1885.         2,738         784,928         384,509           1886.         3,589         980,135         464,478           1887.         2,267         777,918         340,501           1888.         2,647         778,800         434,753           1889.         2,967         1,085,273         563,584           1890.         2,859         1,016,16	Season of navigation,			
1909	1873. 1874. 1875. 1876. 1877. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1990. 1901. 1902. 1903. 1904. 1905. 1906.	6,425 5,814 4,242 4,789 5,129 4,429 3,960 4,104 3,332 3,334 3,267 3,138 2,785 2,785 2,615 2,594 2,615 2,594 2,615 2,594 2,222 2,766 2,725 2,384 2,202 2,384 2,202 1,547 1,548 1,547 1,548 1,595 1,595 1,982	1,506,484 1,389,173 1,088,050 1,099,810 1,175,398 968,758 865,664 819,934 686,506 739,643 1,005,156 837,811 784,928 980,135 777,918 878,800 1,085,273 1,016,165 975,013 955,554 1,294,823 1,008,221 869,595 1,279,987 1,274,292 1,140,077 789,770 719,360 620,209 665,387 1,002,919 811,371 1,092,050 1,201,967 1,614,132	656,208 748,557 477,809 488,815 493,841 373,738 284,043 179,665 194,173 2882,806 432,611 407,079 384,509 464,478 340,501 434,753 563,584 533,957 553,800 541,065 631,667 592,267 469,779 653,213 564,694 487,539 340,529 318,529
	1909	2,433	2.025,951	445,419

The total quantity of freight passed through the several divisions of the Canadian Canal system during the season of 1910 is as follows:

	Farm Stock.	Forest Produce of Wood,	Manufactures.	Produce of Mines.	Agricultural Products.	Total.
Welland. St. Lawrence. Chambly. Ottawa Rideau St. Peters. Murray. Trent Valley. Sault Ste. Marie. St. Andrews.	Tons, 688 9,514 404 3,242 2,124 2,599 149 435 1,368	Tons, 154,737 564,328 496,119 268,199 40,026 10,124 3,471 35,849 100,613 7,952	Tons. 516,333 497,007 21,854 72,294 76,299 7,889 162,506 8,672 862,526 177	Tons. 611,994 759,052 127,275 35,934 13,547 48,468 7,400 679 32,597,423	Tons.  1,042,538 930,851 23,667 5,592 2,885 16,871 4,415 628 2,883,757 177	Tons.  2,326,290 2,760,752 669,299 385,261 134,881 85,951 177,941 46,263 36,395,687 8,283

The total quantity of freight moved on the Welland Canal was 2,326,290 tons, of which 1,042,538 tons were agricultural products.

On the St. Lawrence canals the total quantity of freight moved was 2,760,752 tons, of which 930,851 were agricultural products, and 497,007 tons were manufactures.

On the Ottawa canals the total quantity of freight moved was 385,261 tons; of this quantity 564,328 tons were the produce of the forest.

Comparative Statement of the Commerce through the United States, St. Mary's Falls Cauals and Canadian Sault Ste. Marie Canal, for the Seasons of 1909 and 1910.

	Traffic fo	r 1010.	Total Tr.	affic for	Increase	Decrease.
	U. States Canal.	Canadian Canal.	Season of 1910.	Season of 1909.	Amount.	Amount.
Vessels Xo. 1	12,927	7,972	20,899	19,134	1,765	
Lockages.	8,459	6,110	14,569	13.571	998	
Tonnage registered Net tons	26,506,986	23,361,198	49,868,184	46,779,137	3,089,047	
n freight n	25,927,661	36,395,687	62,323,348	57,993,619	4.329,729	
Passengers No.	33,536	33,291	66,827	60,546	6,281	
Coal hard Net tons	1,109,533	601,208	1,710,741	1,422,671	288,070	
u soft	8,319,072	3,508,357	11,827,429	8,586,321	3,241,108	
Flour Barrels,	4.856,756	2,831,260	7,688,016	7,103.533	584,483	
Wheat Bushels	17,505,949	68,396,300	85,902,249	112,839,716	• • • • • • • • • • • • • • • • • • • •	25,937,467
Grain (excluding wheat) "	14,945,290	23,855,747	38,601,037	47, 493, 636		8,692,599
Manufactured & pig iron. Net tons	266,951	218,717	485,668	572,892		87,224
Salt Barrels	390,191	138,419	528,610	651,091		122,481
Copper Net tons	121,438	35,806	157,244	127,212	30,032	
Iron ore "	13,075,362	28,440,952	41,516,314	40,023,414	1.492,900	
Lumber, ft B. M.	558,607,000	44,646,650	603,253,650	552,003,300	51,250,350	
Silver ore				* * * * * * *		
Building stone	9.335		9,335	1,784	7,551	
Unclassified freight "	747.886	740,554	1,488,440	1.131.586	356,854	

The United States canal was open to navigation during the season of-

1889	234	days	1900	238	days
1890	228	66	1901	230	66
1891	225	66	1902	256	4.6
1892	233	61	1903	249	4.6
1893	219	6.6	1904	223	6.6
1894	234	66	1905	245	66
1895	231	66	1906	249	66
1896	232	66	1907	233	"
1897	234	66	1908	231	66
1898	241	66	1909	236	6 6
1899	231	"	1910	224	44

The Canadian canal was open to navigation during the season of-

1895	87	days	1903	256	days
1896	218	66	1904	241	64
1897	238	66	1905	255	66
1898	243	"	1906	253	66
1899	239		1907	238	*6
1900	238	"	1908	235	46
1901	246	"	1909	240	66
1902	264	66	1910	248	66

The average number of vessels passing per day through the two canals for the season of 1910 was over eighty-eight.

 ${\it 1-GEORGE-V.,\ A.\ 1911}$  A = Table showing the total tonnage of the undermentioned articles moved Up and Down

			VEGE	ETABLE FOOD	),		
Year.	Flour.	Wheat.	Corn.	Barley.	Oats,	Rye,	Other Articles. †
1869*	Tons, 45,674	Tons. 313,825	Tons. 120,599	Tons. 20,951	Tons,	Tons, 904	Tons. 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
	1						
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 6,433	52,959	65,888 9,392	28,042 32,815
1892	17,046	232,019 258,392	192,548	18,599	37,173 31,283	3,671	36,981
1893	15,235 33,628	270,993	441,092 169,233	28,353	27,962	567	60,673
1895	44,044	203,088	164,894	8,689	18,236	1,007	46,463
1896	42,425	320,563	320,444	11,368	28,178	9,403	56,591
1897	9,065	324,743	390,615	14,173	25,161	8,483	44,674
1898	5,578	207,647	437,861	12,286	17,502	16,127	23,182
1899	11,625	197,732	204,004	2,907	24,037	923	18,460
1900	10,968	137,800	163,509	4,035	41,055	3,538	14,815
1901	18,978	151,586	67,756	7,119	28,485	2,961	14,024
1902	22,282	225,171	67,647	7,418	11,232	4.079	12,963
1903	25,998	259,031	210,758	14,656	7,911	4,901	13,994
1904	35,049	165,138	116,444	27,171	16,582		13,184
1905	38,512	254,458	180,921	55,432	36,072	1,711	9,883
1906	18,294	326,798	211,805	31,446	49, 306	1,784	10,739
	22,739	488,565	271,693	13,240	73,369	2,270	22,683
1908	23,209	732,131	127,402	31,172	33,423	6,667	21,668
1909	38,763	590,196	140,902	23,151	75,135	33	30,221
1910	41,152	587,493	229,980	21,575	136,233		18,149

Fiscal. + Apples, meal of all kinds, pease, potatoes.

SESSIONAL PAPER No. 20a through the Welland Canal, during a period of forty years, ended December 34, 1910.

			He	CAVY GOODS.		AAM 1	
Total.	Kailway Iron.	Other Iron.	Salt.	Iron and Salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.
Tons. 503,860	Tons. 46,806	Tons. 16,924	Tons. 91,575	Tons. 37,153	Tons. $103,126$	Tons. 58,781	Tons. 275,623
538,147	26,217	17,141	50,540	44,243	186,932	98,605	3,678
579,880	6,923	20,754	40,850	17,157	339,016	118,685	43,387
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
, ,	· ·	1					,
403,403	10	11,518	3,980	12,686	295,318	15,229 19,164	338,741
438,564	2,782	5,797	7,174	17,796 22,273	192,957 109,986	34,139	245,670 176,983
442,182	5,360	4,812	413 10	30,682	128,113	18,785	189,188
269,395	4,585	7,013 5,348	50	17,327	237,559	23,700	283,984
306,482	1,237	7,922	66	17,037	307,058	31,785	365,105
373,326 305,734	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
· ·	166	6,123	48	12,324	271,356	27,447	317,464
414,812 394,971	1,351	5,636	40	6,715	145,193	13,866	172,761
419,786	93	3,220	316	13,617	223,871	16,872	257,989
542,043	47	2,479	1,254	20,269	268,305	2,435	294,789
519,291		753	1,027	28,047	202,384	8,138	240,349
367,177	127	1,610	2,567	7,953	224,644	3,415	240,316
527,426	163	1,567	878	3,666	211,616	355	218,245
805,253	6	2,075	374	8,139	233,096		243,690
591,409	l	3,072	159	977	203,608		207,816
486,421	. 185	6,245	54	2,819	158,866	1,140	169,309
788,974	1,192	6,332	82	3,264	223,445	1,158	235,473
816,914	7,206	17,012	227	590	176,226		201,261
720,183	1,444	11,722	799	734	162,336	13,433	190,468
459,688	567	6,361	1,282	1,318	97,732	26,125	133,385
375,720		* 8,190	533	4,800	47,392	58,400	119,315
290,909	83	6,094	327	8,773	49,480	99,487	164,244
350,792	64	7,488		15,201	64,014	22,480	109,247
537,252	488	5,407	2,554	45,846	147,884	18,323	220,502
373,568	11,381	9,957	1,093	4,164	113,525	39,683	179,803
576,989	2,651	10,912	226	4,221	172,642	22,381	213,033
650,172	3,747	8,493	100	16,204	147,587	5,862	181,993
894,559	961	4,923	246	18,761	267,212	25,040	317,143
975,672		35,726	429		316,921	18,004	371,080
898,401		87,025	• • • • • • • • • • • • • • • • • • • •		377,681	33,301	498,007
1,034,582		57,581			577,491	34,311	669,383

B.—Table showing the Total Way and Through Tonnage of the undermentioned Articles cleared downward on the Welland Canal during a series of forty years, ended December 31, 1910.

### VEGETABLE FOOD.

Years.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other, Articles,	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	44,110	310,090	119,541	3,920		680	1,541	479,882
1872	26,648	231,056	254,534	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
1836	19,418	146,151	218,897		4,891		14,581	403,928
1887	23,940	210,755	114,938	1,711	12,050		12,149	375,543
1888	16,973	150,833	194,886	555	26,629	811	13,358	404,045
1889	7,922	120,498	353,595	197	28,356	1,918	18,273	530,759
1890	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,983
1891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,058
1892	17,046	229,569	192,548	6,433	37,173	9,392	32,548	524,709
1893	15,232	257,203	441,092	18,461	31,283	3,671	36,981	803,923
1894	33,628	270,514	169,233	28,353	27,962		60,587	590,277
1895	43,895	202,636	164,894	8,689	18,236	0.070	46,435	484,785
1896	42,159	319,388	320,444	11,368	28,178	8,970	54,031	784,538
1897	9,025	322,993	390,615	14,173	25,127	8,483	44,651	815,067
1898	5,578	206,313	437,849	12,286	17,491 23,541	16,127 923	23,170 18,440	718,814 458,689
1899	11,625	197,732	204,004	2,424	40,256	3,538	14,802	374,322
1900	10,968	137,800	163,509	3,449	28,281	• 2,961	14,002	290,400
1901	18,937	151,325 223,499	67,756 67,647	7,119	11,223	4,079	12,912	349,060
	22,282 25,997	257,370	210,758	14,656	7,911	4,904	13,982	535,578
1903	35,046	164,515	116,444	27,171	16,582	1,001	13,157	372,915
1905	38,512	247,599	180,921	55,432	36,072	1,711	9,882	570,129
1906	18,227	326,789	111,243	31,446	49,306	1,411	10,739	549,161
1907	22,689	488,565	271,693	13,240	73,369	2,270	22,683	894,509
1908	23,187	730,751	127,402	31,172	33, 423	6,667	21,668	974,270
1909	38,763	590,074	140,902	23,151	75,135	33	30,206	898,264
1910	41,152	587,493	229,980	21,575	136,233		18,149	1,034,582

<sup>\*</sup>Fiscal. †Apples, meal all kinds, pease, potatoes.

C.—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 forty years, ended December 31, 1910.

5				VEGETABLE FOOD	SE FOOD.						HEAVY GOODS	Goods.		
Y KAKS.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	*Other Articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
	Tons.	Tons.	Tons.	Toms.	Tons.	Tons.	Tons.	Tons.	Toms.	Tons.	Tons.	Tons.	Tons.	Tous.
1869 1872 1873	30,681 10,482 10,805	211,085 124,695 127,797	91,149 89,761 101,329	2,942	7,400	667	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	28,566 95,741 170,242	35,912 59,401 62,942	235,962 224,264 292,176
1874 1875	8.230	229,053 113,832		2,641	2,948	500	5,368 1,920	374,226 177,908	5,742	8,941		203,673 192,767	19,651 34,616	260,895
1876 1877	5,187	96,247		1,603	1,905	225 258 258	403	162,405 180,586	8,976	5,531 8,688		167,110 172,868	25,808 41,107	230,975 975
1878 1879	1,316	65,542 53,791		859	277		341	128,361 87,826	2,405	3,648		150,583 118,573	13,535	178,723
1880		30,611		1,551	965			48,580 65,285	4,743	3,515 5,570		65,945 83,858	18,380 6,464	92,994 97,205
1000	107	30,227		537	721	684	14	64,002	1 209	4,076		158,552	14,533	177,161
1884	1,715	40,956			9,874		8,170	114,422	869	590		210,790	15,100	227,187
1886	7,591	53,258 53,258		201	4,790		13,201	172,888	156	5,328		189,964	11,364	206,813
1887 1888	8,563	37,678		1,732	12,050 26,510	.621	11,598	189,825	38	1,601	500	173,259	2,309	177.288
1890	5,017	30,229		6,519	27,492		17,225 20,497	236,208 275,619		1,587		162,231	1.68	154,363
1891	6,802	32,097 26,950		8,113	52,823 36,935		26,115 31,992	253,444		292 576		186,572	1,773	184,473
1895	6,588	28,187		16,751 28,095	23,870	864	36,352	311,389 198,358		344		206,827 188,521		207,171 188,818
1895	10,169	27,881		7,904	17,020	9	46,316	209,802	181	246	:	149,490	:	1.19,917
1897	7,237	28,919		14,173	14,969	0 to 0	41,887	276,242	198	15		165,143		166.123
1898	6.118	12,926		5,908 424 424	19,526	1,197	22,671 18,198	141,892	351	1,646		88,931		91,481
1900	7,966	18,771		204,5	39,706	2,149	14,248	145,787	00	953	:	46,024	:	16,977
1901	+ 17,165 $-$ 13,785	32,630		7,418	26,344		14,016 12,675	142,634		214	:	12,911	: :	13,125

\* Apples, meal all kinds, pease, potatoes.

C.—Table showing the Tounage of the undermentioned Articles passed through the Welland Canal in transit between Ports in the United States during a series of forty years, ended December 31, 1910—Concluded.

	Total.	Pons.	113,535 63,882 63,882 33,655 33,652 114,420 159,751 182,667
	Ores.	Toms.	1,531
Heavy Goods.	Coul.	Tons.	113,072 63,882 73,464 33,523 110,347 158,351 131,131
HEAVY	Salt.	Toms	
	Other Iron.	Tons.	169 30 5
	Railway Iron.	Tons.	120
	Total.	Tons.	165,725 129,986 162,930 195,132 194,820 172,788 161,266
	*Other Articles.	Toms.	13,568 13,079 9,682 10,678 22,001 21,393 22,683 8,571
	Ryc.	Tons.	# : : : : : : : : : : : : : : : : : : :
R Food.	Oats.	Toms	6,112 16,497 10,892 11,323 4,741 2,070
Vegetable Food	Burley.	Toms.	11,433 16,621 9,197 9,266 2,812 7,118 4,224 8,840
	Corn.	Toms.	108,917 60,964 93,622 135,240 124,474 99,830 100,967
	Wheat.	Toms.	15, 439 14, 269 15, 483 13, 410 21, 892 24, 651 17, 940 10, 717
	Flour.	Toms.	6,082 8,556 21,054 15,215 18,898 17,694 15,452 11,859
	rais.		1903 1904 1906 1906 1907 1908 1919

" Apples, meal all kinds, pease, potatoes.

D.—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 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909 and 1910.

										-
		Canadian	VE	SSELS.	U:	NITED STA	tks \	ESSELS.	Г	OTAL.
ARTICLES.	5	Steam.		Sail.	5	Steam.		Sail.	Ste	eam and Sail.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	191	100,242	129	75,777	201	212,027	78	36,962	599	425,008
1899.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		91,901 28,015		80,928 18,905		$16,250 \\ 138,834 \\ 2,424$		7,244 18,250		196,323 204,004 2,424
BarleyOatsPease		1,557				21,646				23,203
Rye Coal. Miscellaneous merchandise Shingles, woodenware, &c Sawed hmber Ft. B.M.		$\begin{array}{r} 435 \\ 25,203 \\ \cdot 485 \\ 2,077,748 \\ 322,138 \end{array}$		6,736 18,651 916 772,739		923 49,522 4,855,338 20,802	1	3,398 1,567 100 9,949,079	3	923 10,569 94,943 1,501 7,654,904
Square timber Cnb. ft. Firewood Cords. Staves No.		322,133		585,780 9		20,002		328,806		1,257,526 9
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage,	No.	Tonnage.
	216	114,885	109	67,475	168	182,444	71	30,309	564	395,113
1900.		Tons.		Tons.		Tons.		Tons.	1	Tons.
Wheat		67,694 39,597		43,157 31,248		23,066 $78,701$ $2,402$ $39,706$ $4$	1	2,130 13,963 1,047 407		136,047 163,509 3,449 40,113
Rye Coal		115 1,389 723 53,649 1,078		637 31,536	ļ	2,149 433 43,344		559 3,564		119 3,538 2,352 132,093 1,078
Square timber Cub. ft. Firewood Cords. Staves No.		$\begin{array}{r} 6,847,279 \\ 439,827 \\ 126 \\ 1,000 \\ \end{array}$		5,344,258 355,951 255		4,984,483		8,770,405 198,420		5,946,425 1,005,781 381 1,000
•	No.	Tonnage.	No.	Tounage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	197	103,802	114	59,022	163	182,497	48	22,319	522	367,640
1901.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat. Corn. Barley. Oats		57,641 7,350	• • • • •	58,973 4,689		31,955 55,717 7,119 27,197		1,241		149,810 67,756 7,119 28,141
Pease Rye Coal Miscellaneous merchandise Shingles, woodenware, &c		2,961 1,960 71,300 18		362 32,312		357 12,874	• • • •	7,469		2,961 2,679 123,955 18
Sawed lumber. Ft. B.M. Square timber . Cub. ft. Firewood . Cords. Staves . No.		6,533,423 362,441 165		4,060,251 204,682 264	1	11,089,806 9,384		3,092,940 149,531	3	4,776,420 726,038 429
οΛ 9									-	

1 GEORGE V., A. 1911

D.—Statement showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

						<u> </u>			1	
		Canadian	VE	SSELS.	U:	nited Sia	TES T	Vessels.	Т	OTAL.
Articles.	s	Steam.		Sail.	\$	Steam.		Sail.	Ste	eam and Sail.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	196	90,791	122	73,958	191	201,339	52	22,097	561	388,185
1902.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		82,954 148  1,200		85,973 1,388		52,889 66,111 7,418 9,963		· · · · · · · · · · · · · · · · · · ·		$\begin{array}{c} 221,816 \\ 67,647 \\ 7.418 \\ 11,206 \end{array}$
Rye		3,808 3,977 33,111 47 3,218,960		25,732 8,723 28		271 13,497 38,351 4		8,332 1,594	G	4,079 51,538 81,779 79 1,452,860
Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Cords. Staves No.		370,718 56		3,256,187 557,689 40 14,000		25,437,287		.9,540,426 115,000		1,452,866 1,043,407 96 14,000
	No.		No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	329	151,850	76	45,918	243	252,094	69	27,854	627	477,716
1903.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats Pease		$149,378 \\ 21,356 \\ 2,580 \\ 306 \\ 63$		38,473 4,682 667 1,335		$\begin{array}{c} 60,514 \\ 174,588 \\ 11,409 \\ 6,112 \\ 22 \end{array}$		6,305 10,132		254,670 210,758 14,656 7,753 85
Rye	 	389 39,563		12,991 3,367 54		4,904 8,133 41,584		8,496 2,000	<u>.</u>	4,904 30,009 86,514 54
Sawed lumber. Ft. B.M. Square timber . Cub. ft. Firewood . Cords. Staves . No.		2,841,552 572,000		1,625,855 660,000 210 641,000		17,871,652		.4,733,677 84,200		7,072,736 1,316,200 219 641,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	228	157,539	55	39,375	_	187,748	42	15,918	530	400,580
1904.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat	i 	116,794 12,768 2,619		33,302 7,814 824		$14.269 \\95,862 \\23,728 \\16,261 \\3$				164,365  116,444  27,171  16.261  3
Pease. Rye. Coal. Miscellaneous merchandise. Shingles, woodenware, &c		1,925 34,907 29,567		7,187		17,133 1,925 60,548		7,668		33,913 36,832 90,115
Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Cords. Staves No.	1	5,077,382 944,508 634,000		954,811 744,000	3	717		9,572,655 149,000	5	8,259,389 1,837,508 717 634,000

D.—Statement showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

					1				1	-
		Canadian	VES	SELS.	U	NITED STA	TES \	ESSELS.	7	COTAL
ARTICLES.		Steam.		Sail.		Steam.	[	Sail.		Steam id Sail.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	252	182,373	91	48,692	319	286,656	64	29,120	726	546,841
1905.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats. Pease Rye		188,706 6,385 6,870 8,225		18,575 6,636 1,451 2,570		28,757 $163,374$ $47,111$ $21,535$ $76$ $1,711$		2,512 4,526 3,742	*	238,550 180,921 55,432 36,072 76 1,711
Coal. Iron ore. Merchandise. Shingles, woodenware, &c Sawed lumber Ft. B.M. Square timber Cub. ft.		18,756 14,358 29,375 2,867,147 355,000		35,324 8,023 7,485 2,748,941 951,524	3	28,330 74,975 2,325 38,290,831	1	8,678 3,126 2,479,698	5	91,088 22,381 114,961 2,325 4,589,200 538,000
Firewood Cords.				183,000		900	3			900
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	328	238,690	121	66,355	305	310,622	43	15,758	797	631,425
1906.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley Oats. Pease Rye. Coal.		250,493 8,177 8,546 21,900 	• • • •	5,046 16,083 5 47,242		35,578 202,250 17,854 11,323 11 1,406 24,190		1,378 9,356		320,436 49,306 31,446 49,306 11 1,411 111,243
Iron ore. Merchandise Shingles, woodenware, &c Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood Cords. Staves No.		5,862 35,383 16 3,471,514 375,000 110		7,009 37 235,624 200,000 18	2	110,263 851 5,711,196 1,093 300,000		50	4	5,862 152,705 904 0,188,089 575,000 1,221 300,000
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	375	290,509	148	81,070	408	397,616	76	36,921	1,007	806,116
1907.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn Barley Oats Pease		294,298 6,713 8,726 49,689		50,808 514 468 16,647		130,818 259,895 4,046 7,033 25		4,429 4,571		480,303 271,693 13,240 73,369 25
Rye. Coal. Iron ore. Merchandise. Shingles, woodenware, &c.		31,506 12,040 21,545		57,373 8,950 9,436		2,270 50,183  5,231 2,222		14,493 6,235		2,279 143,555 20,990 42,447 2,222
Sawed lumber Ft. B.M. Square timber Cub. ft. Firewood, Cords.		558,090		323,000	1	4,395,124		1,201,446	2	5,596,5 <b>70</b> 881, <b>090</b> 660

1 GEORGE V., A. 1911

D.—Statement showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Concluded.

		Canadian	VES	SELS.	U:	NITED STA	TES \	ESSELS.	Т	'OTAL.
Articles.	s	team.		Sail.	   S	Steam.		Sail.	Ste	eam and Sail.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage,	No.	Tonnage.	No.	Tonnage
	567	432,623	149	64,034	428	319,030	36	19,866	1180	835,553
1908.		Tons.		Tons.		Ton.		Tons.		Tons.
Wheat		505,151 $2,405$ $19,775$ $30,091$		39,001 1,133 643		183,101 124,997 10,264 2,689		3,498		730,751 127,402 31,172 33,423
Pease Rye . Coal. Merchandise Firewood Cords.		742 39,733 26,815		42,656 14,783 70		5,925 57,448 14,410 1,173		8,344 13,686		40 6,667 148,181 69,694 1,243
Sawed lumber Ft. B.M. Square timber Cub. ft.		221,300		313,000	1	17,572,070		6,578,545	2	4,150,618 534,300
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnag
	555	486,406	136	71,034	323	324,576	26	17,317	1040	899,333
1909,		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat		415,208 6,694 17,943 70,392		34,903 360 4,743		133,172 134,208 4,848				583,283 140,909 23,153 75,138
Rye Coal. Merchandise Sawed lumber Square timber		33 160,475 52,994 3,450		53,681 14,782 7,840		21,097 12,232 31,643 125		630 16,498 10,214 1,475		33 235,883 96,500 41,853 12,890
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnag
	596	599,416	142	88,963	249	285,704	14	13,563	1,001	987,640
1910.		Tons.		Tons.		Tons.		Tons.		Tons.
Wheat Corn. Barley. Oats. Pease		481,624 15,759 17,159 135,743		22,200 576		77,040 214,221 3,840 490 123				580,864 229,986 21,575 136,233 123
Rye Coal. Merchandise Sawed lumber Square timber Shingles		216,779 39,149 3,630 1,930		114,671 15,231 800 5,000		29,646 21,818 16,932 800 525		894 20,466		361,996 96,66 21,365 7,730 528
Uneuumerated		74,434		1,772		24,031				100,233
Total		986,207		160,250		389,466	}	21,360		1,557,28

### 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 1910 is as follows:—

Summary.	Tons.	Tons.
In Canadian steam vessels	352,468 4,551	357,019
In United States steam vessels	356,183 11,034	
Total in United States vessels		367,217
Grand total freight passed Up the Welland Canal in Canadian and United States vessels		724,236

## STATEMENT of the Quantity of Through Freight passed Up and Down the Welland Canal during the Season of Navigation in 1910.

Summary.	Tons.	Tons.
In Canadian steam vessels up	352,468 986,207	
Total in Canadian steam vessels	)	1,338,675
In Canadian sail vessels up	4,551 160,250	
Total in Canadian sail vessels		164,801
Total quantity in Canadian vessels		1,503,476
In United States steam vessels up. down.	356,183 389,466	
Total in United States steam vessels		745,649
In United States sail vessels up down.	11,034 21,360	
Total in United States sail vessels		32,394
Total quantity in United States vessels		778,043
Total in Canadian and United States vessels		2,281,519
	Down on East Bound.	Up or WestBound.
In Canadian vessels In United States vessels.	1,146,457 410,826	357,019 367,217
Total	1,557,283	724,236

1 GEORGE V., A. 1911

F.—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 1898 to 1910.

		1	1					1	GEOR	GE V.,	, A.	1911
!	1910	T.	2. 2.	7,154	20,000 77,612 6,607	129,900		562,149			•	841,310
	1909.	Tons.	5,652	12,689	19,143 17,137 19,634 21,905	65,624	\$ 1 \$ 1 \$ 1	550,775	9.58.6 		366	718,951
	1908.	Tons.		909	24,318 10,454 27,500 5,028	28,081	6,662	686,626		524	*	790,321
	1907.	Tons.		7.7	9,936 105,984 49,159 3,730	66,941		450,446				688,749
	1906.	Tons,		98	21,196 55,559 80,570 9,174	37,164	1,405	289,611	2 4,810			499,895
	1905.	Toms.	10 13 11	384 48	43,607 84,204 15,694 14,571	21,40+ 9,229	1,711	190,505	984	53		384,727
Ĭ	1904.	Tons.	35	1,651 16	9,697 55,021 212 24,662	5,846	919	133,528	10		1	241,522
	1903.	Tons.		2,549	2,206 123,864 3,643 16,151	. e. . &	4,260	226,746				382,858
	1902.	Tons.	50	5,785	1,719	1,442	4,079	200,975				220,805
	1901.	Tons.		1,178	14,319 4,965 1,400	1,584	2,961	246 23 132,702	1,155			161,849
	1900.	Tons.	20	508 4, 292 7, 420	1,288 100,359 1,595	8,925	3,078	121,896	· · · · · · · · · · · · · · · · · · ·			256,491
	1899.	Tons.	15	5,063	596 150,999 4,229	10,250	923 183 200	96 169,978	70			345,565
1	1898.	Toms.	52	6,217 1,351	3,960 310,498 5,687 653	3,975	15,488	184,154	90			532,499
+		Articles.	Class 3.  Cement and water line. Clay, lime and sand. Iron, railway.	" pig all other Steel. Stone, for cutting	Apples. Barley. Gorn. Plaxeed. Flour. Flour.	Oats. Oil cake. Pense	Rye. Salt Seed, all kinds	Hay, pressed. Tobacco, raw. Wheat. All other, agricultural products,	Vegetables Hides, skins, horns and hoofs Horses Lard and lard oil.	Meaus, all kinds. Pork. Tallow. All characteristics.	aninal	Total, class 3

		ç1	26,932		<u> </u>	9,224	37,462				1,30	1,800		289,567	289,567	170,139
			31,149		173	525	42,265				006	006		175,115	176,939	939,055 1,170,139
			30,002			1,056 2,126	34,730			*				42,075	43,367	869,398
			92,111	101	15	1,224	25,749				4,180	4,180		70,489	70,489	789,167
_		6	19,995		12	994	21,164			100	1,500	4,000		29,172	29,172	554,231
		93	820 64 20,700	53	2,019 53	204 635 851	25,572		:	3,957	1,260	5,217		29,351	33,188	448,704
	17 16	36	12,848			766	14,456			33.7	1,544	1,938		17,362	17,362	275,278
	% #1	15.	14,	o : + 8 :	8 : : :	582	15,569		:							398,427
	13		54 12,091			419	12,577		15	1,085	21	1,117		15,976	15,976	250,475
	1,785	5	14,987		78	32 32 2,420	19,366		99	2,635		3,205				184,420
	8	1	15,647		* * * * * * * * * * * * * * * * * * *		15,798		182	15,760		15,942				28,231
	55 3	16	159 1 7,143			96 74 518	7,969		1	924	56	951				354,485
	73	75	1,141		* * * * * * * * * * * * * * * * * * *	866	2,215			3,065	329	3,394				538,108
Class 4.	Agricultural implements Ashes Bricks	Grockery. Furniture (dass, all kinds.	Molasses Nails Oil	Fitch and tar. Rags.	Soda ash. Sugar Tim	1 obacco White lead Whisky, beer and other spirits Merchandise not enumerated	Total, class 4	Class 5.	Barrels, empty.	Sawed lumber Staves, pipe and barrel	". West Indua and pipe Timber, square, in veskels in rafts Woodenware	Total, class 5	Special Class.	Coal. Iron ore Stone, all kinds	Total, special class	Grand total

Statement showing the Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and Welland Canal to Lake Eric, during the Seasons of Navigation in 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1909 and 1910.

												1 GE	ORC	GE V	/., A	191
1910.	Tons.	1		17,565		9.080	540			1,113						21,278
1909.	Tons.			400		7 931		35,153		665						43,039
1907.	Tons.		556	190	68	4,119	6,987	2,561		ફ ફ :				15		22,076
1906.	Tons.			αC :		7,239	8,235	111						<u>.</u>		16,457
1905.	Tons.		132	181		31.9	3.633	192	18		- : : : : : : : : : : : : : : : : : : :	127		e :		4,931
1904.	Tons.		115	339	-	283	3,782	 32 F		: :	191			- 68 		4,617
1903.	Топя.		€ 83	3,924	Ŝ ∞	39,641	5,845	335		11		1	2 :	1		50,768
1902.	Tons.		88	178		11,735	2,904	'=			58	;	2 :	= : : :		15,520
1901.	Tons.		196	2,916		∞+	4,950	, m	16		308					9,222
1900.	Tons.		<del>\$</del>	1,931	00	च् <u>र</u> श	. 438 84 84 84 84				218					3,764
1890.	Tons.		1.5	997 8	10		1,318	18			121					2,500
1898.	Tons.		0.2	996	6		699	32			26		- p4 G	Fa :		2,031
Articles.		Class 3,	Bricks.	Cement and water lime Clay, lime and sand	Cotcoll, Paw Fish Cynsum	Iron, railway.		Steel Stone for cutting	Plour	Hay Mark Oats	Potatoes, Seeds, all kinds. Tobacco, raw	Agricultural products, not enumerated, vege-	Horses and skins Horses	Laru and laru oll	Wool All other articles not enumerated.	Total, class 3,

31			CIT 140. 2								
		8	Ş.	- <del>1</del> 30.5	1,187	19,510	121,572	121,572			172,360
				04	21,359	21,620	122,867 3,984	126,851			191,510
	456	3,534 3,534 15	3,331 155 295	50 25 37 8,046 1,173	283 18 1,040 16,498	33,049	2,337 101,989	104,326			159,451
	5	2,519 37 35	:		304 93 483 11,707	23,116	54,906	57,218			96,791
	155	1,641 93	3,061 120 367 5	15 28 1,168 928	80 158 384 15,360	23,566	43,982	43,982			72,482
	291	1,671	2,009 1,418 202 199	387	82 33 432 6,200	13,379	40,425	40,425	10,200	13,061	71,512
	61 62	1,207	2,878 16 158 58	8 <sup>1</sup> 8 <sup>1</sup> 8	80 22 452 3,674	9,294	40,026	40,637			100,699
		1,384	1,292 14 97 27	201	37 61 182 1,049	6,169	3,600	3,600			25,289
		619	675 69 27	169	11 49 131 1,516	4,492					13,714
	70	456	85 22 23	65 65 117	39 295 744	2,447			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,211
	ಣ	668	21.52	14 15 108 1,596	1 89 178 482	3,491					5,991
	33	150	22 23 23 24 25 25	31 31 566 237	98 793	2,405					4,436
Class 4.	Agricultural implements Ashes, pot and pearl. Crockery and earthenware. Dye woods, &c.		Molasses. Nails Oil, in barrels. Paint Prich and tar	Rags Resin Soda ash. Soone, wrought. Sugar.	Unite lead Whiting. Whisky. beer, &c Mechandise not enumerated	Total, class 4	Class 5.  Barrels, empty Firewood in vessels Pulpwood Lumber, sawn, in vessels Railway ties in vessels Woodenware.	Total, class 5	Coal Iron ore.	Total, special class.	Grand total.

H.—Statement showing the Quantity of Freight passed Eastward through the Welland Canal, from United States Ports to United States Ports, during the Seasons of Navigation from 1898 to 1910 inclusive.

	and the second s				I		1			1			
A which as	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.
Atticity,	Tons.	Tons.	Tous.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
	300		<u>«</u>										2,000
Iron, railway all other	770 324	1,008	714		30				57	8 8			
State Stone for cutting	2,951	13,522	3,110						231	609	980,6		
Apples. Barley. Corn.	6,909 150,667 4,212	2,424 81,777 6,118	2,402 60,545 7,966	7,119 55,531 17,168	7,418 66,111 13,785	11,433 108,917 6,082	16,621 60,964 8,556	9,197 93,622 24,054	9,266 135,240 15,215	2,812 124,474 18,898	7,148 99,830 17,694	4,224	3,840 126,938 11,859
Hay, pressed Meal, all kinds Marble	22,626	18,198	14,244	14,016	12,675	13,546	13,076	$^{200}_{9,606}$	10,668	21,976	21,353		8,621
Nauls Ou'l cake Oats Pense	12,729	19,526	2,705 39,706	1,302	10,006	6,112	16,497	$\frac{1}{228}$ $10,892$ $76$	11,323	114 4,741 25	2,070	: : : : : : : : : : : : : : : : : : : :	123
Potatores Rye Flax seed Seeds, all kinds	1,197	923 200 11	9,149		10	4,174 1,594 27			756	2 2 17	C1	15,452	
Lobacco Wheat. Wrierultural products, vegetable Hides and skins, &c.	11,268	12,926	18,771	13,557	32,639	15,436	14,269	15,483	13,410	$\frac{21,892}{7}$	24,651	17,940 22,620 315	10,717
Horses. Lard and lard oil, &c. Meats, other than pork. Pork.	3,671	864	1,588	1,680	2,413	162	379	273	268	86			
Sheep. Tallow. Wool.	359 89	201	631	119	752	482	134	: :51	. : 650 . :	30	190	120	
Total, class 3	219,434	158,720 154,680	154,680	147,947	146.581	168,720	130,499	163,784	196,301	196,062	182,085	161,738	164,564

SESS	IONAL	PAPER	No.	20a
------	-------	-------	-----	-----

S	ESSIONAL PAPER	No. 20a 621 123 621 123 621	102,613	1,531	1,583	14,877	201,893	203,445	485,499
	400 400 400 400 400 400 400 400 400 400	1,196	7,316	178,40	195	27.384	007	4(k)	196,838
	21	1,857	1,875	3,509	8.14	25,558	* ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		209,518
	ω	26,075 4 21 21 30 41,621	67,768	1,980 14,314	2,151	18,516	110,347 2,734 1,316	114,397	396,743
	167	840	3,660	$\frac{3,609}{27,701}$	53	32,865	4,400	4,400	190,547 237,226
	n : : : : : : : : : : : : : : : : : : :	53 2,008	2,666	2,700 15,726		20,751	3,346	3,346	190,547
	33.6	53	2,021	717 30,194	154	31,717	1,100	1,10	165,337
	5,000 4	2,010	4,017	48,337		48,337			221.074
	399 1,594	280	4,218	72,806		72,810	501	501	224,110
		448 13,327	3,805	282 38,085		38,367	357	357	190,476
	36	154	8,164	55,128		55,133	992	7.665	218,969
	. 20 ± 20 ± 20 ± 20 ± 20 ± 20 ± 20 ± 20	168 6,219	6,783	52,695		57,695	2, 293 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	2,293	225,491
	2 E E E	3,52,28	3,986	52,844		52,844	759	759	277,023
Class 4.	Agricultural implements. Crockery and earthenware. Furniture. Marble. Molasses. Molasses. Oil, in barrel. Paint. Rags. Soda ash	Stone, wronght. Sugar. Sugar. White land Whiting. Whisky, beer and all other spirits	Total, class 4	Empty barrels. Firewood, in vessels. Lumber, sawn, in vessels. Masts and spars, in vessels.	Hop poles. Railway ties, in vessels. Splingles. Split posts. Staves, salt barrels. Timber, square, in vessels.	Total, class 5. Special class.	Coal Stone, not suitable for cutting Kryolite Iron ore	Total, special class	Grand total

1 GEORGE V., A. 1911

L—Statement of the quantity of Grain Transhipped to the following Ports for the season of 1910.

Ports.	Wheat.	Ōats.	Barley.	Corn.	Other Grain.	Total.	Total.
	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Tons.
Kingston	9,481,700	3,848,235	438,250	375,428	1,360	14,144,973	371,699
Prescott	85,527	32,016		62,711		180,254	5,010
Ogdensburg			,	15,000		15,000	420
Total Bushels	9,567,227	3,880,251	438,250	453,139	1,360	14,340,227	
Total Tons	287,017	66,558	10,768	12,738	48		377,129

M—The quantity of Coal passed through the Welland Canal during a series of years from 1885 to 1910 inclusive, as follows:—

Years.	From Canadian Ports to Canadian Ports.  From Canadian Ports to Canadian Ports.		United States Forts United States I			ates Ports		
	Up.	Down.	Up.	Down.	Up.	Down.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
385	1		193,442	4,974	10,321	31,350	240,08	
386			184,564	5,400	22,187	49,724	261,87	
387			81,617	1,163	26,775	25,968	135,52	
388			172,381	878	17,365	27,183	217,8	
389			226,352	1,124	12,036	25,931	265,4	
390	80		116,616	615	17,280	22,781	202,3	
891			185,190	1,382	17,374	20,698	224,6	
892			183,244	651	12,391	15,330	211,6	
393			204,704	2,123	8,325	17,944	233,0	
394 395			187,794	727	1,269	13,947	203,7	
896	. 20	010	148,887	603	1,565	$7,807 \\ 11,740$	158,8	
397	. 20	210	206,093	1,255	$\begin{array}{c c} 4,127 \\ 1,277 \end{array}$	9,799	223,4 $176,2$	
398			165,143 156,055	759	986	4.536	162,3	
899			86,638	2,293	525	8,276	97.7	
900			45,032	992	UEU	1,360	47.3	
901	1		46,345	357	456	2,322	49,4	
002			12,410	501	65	51,037	61,0	
003	3		113,076		4,796	30,009	147.8	
04	2,919		62,782	1,100	3,711	32,813	103.3	
005			70,118	3,346	11,436	37,742	172,6	
906	60		29,123	4,400	7,161	106,843	147,5	
907			110,347		10,453	143,555	267,2	
008	4,401		158,351		5,988	148,181	316,9	
009			130,731	400	11,067	235,483	377,6	
910	2,045		197,482	4,411	15,974	357,579	577,4	

N.—Statement showing the quantity of Coal passed through the whole length of the St. Lawrence Canals during the seasons of 1885 to 1910, inclusive.

Years.	Quantity passed up.	Quantity passed down to Montreal.	Total Quantity passed up and down
	Tons.	Tons.	Tons.
1885.	5,035	122,829	127,864
1886.	3,301	118,802	122,103
1887.	7,579	121,618	129,197
1888.	8.341	123,050	131,391
1889.	5,360	124,290	129,650
1890.	6,538	135,168	141,706
1891	7,951	141,701	149,652
1892	7,543	157,134	164,677
1893	2,285	147,139	149,424
1894	16,213	169,552	185,765
1895		165,151	165,151
1896	689	161,551	162,240
1897	40	164,963	165,003
1898 <b> </b>	400	175,609	176,009
1899 <b></b>	448	201,546	201,994
1900	10	280,169	280,179
1901	2,765	298,245	301,010
1902	9,231	95,702	104,933
1903	30	290,548	290,578
1904	9,670	320,973	330,643
1905	8,518	345,589	354,107
1906	6,989	313,080	320,069
1907	1,281	406,978	408,259
1908	23,939	448,140	472,079
1909	13,543	469,695	483,238
1910	7,351	746,926	754,277

O.—Statement showing the quantity of Through Freight passed down the Welland Canal, &c.

### RECAPITULATION,

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 Lake Ontario.
1899.	Tons.	Tons.	Tons.
Barley	568 150,999 10,250	16,594 1	1,828 43,854 13,139
Rye. Wheat.	$\begin{array}{c} 923 \\ 169,978 \end{array}$	24,602	9,190
Total grain	‡ 332,736 21,739	40,197 68,671	68,011 104,72 <i>i</i>
Total	354,485	108,958	172,732
1900,			
Barley. Corn Oats. Pease.	1,288 109,358 8,925	563 9,844 348	1,598 44,406 30,840
Rye. Wheat.	$ \begin{array}{c} 115 \\ 3,078 \\ 121,896 \end{array} $	160 6,610	$\begin{array}{c} 4\\300\\7,541 \end{array}$
Total grain	**244,661 43,670	17,525 95,680	84,589 93,287
Total	288,231	113,205	177,876
1901.			
Barley. Corn Oats. Pease	14,319 1,584	4,828 853	49,609 25,704
Rve	2,961 132,702	8;051	9,057
Total grain	†151,566 32,854	$\begin{array}{c} 13,732 \\ 128,614 \end{array}$	83,370 91,799
Total	184,420	142,346	175,169
1902.			
Barley. Corn Oats. Pease.	1,719 1,412	10,335	7,418 55,583 9,764
Rye Wheat.	$\frac{4,079}{200,075}$	12,452	8,389
Total grain Other articles.	‡208,215 42,260	22,787 32,946	81,165 179,914

O.—Statement showing the Quantity of Through Freight passed down the Welland Canal, &c.—Continued.

### RECAPITULATION—Continued.

Corn     116,223     13,846     86       Oats     2,438     \$       Pease     63       Rye     4,200       Wheat     226,746     14,199     15       Total grain     \$351,936     29,062     111	1 to States 5 on 11,433 80,689 5,315 22 644 13,725 11,828 01,621
Barley.     2,206     1,017     11       Corn     116,223     13,846     80       Oats     2,438     5       Pease     63     5       Rye.     4,200     14,199     15       Wheat     226,746     14,199     15       Total grain     \$351,936     29,062     111	11,433 80,689 5,315 22 644 13,725 11,828 01,621
Corn     116,223     13,846     86       Oats     2,438     \$       Pease     63       Rye     4,200       Wheat     226,746     14,199     15       Total grain     \$351,936     29,062     111	5,315 22 644 13,725 11,828 01,621
Wheat 226,746 14,199 18  Total grain \$351,936 29,062 111	13,725 11,828 01,621
	01,621
	2.440
Total	.0,440
1904.	
Corn	16,621 57,473 16,497
Rye	1,929
Total grain. 198,246 23,711 102 Other articles. 77,031 80,092 138	02,523 38,475
Total	0,998
1905.	
Corn 84,204 3,095 93	9,197 93,622 6,892 76
Rye	5,483°
Total grain         **341,431         42,061         129           Other articles         107,273         123,225         104	29,270 14,747
Total	4,017
1906.	
Corn. 55,559 15,688 140	9,266 0,558 1,323
Rye	4,972
Total grain     404,935     33,351     176       Other articles     118,224     176,277     59	6,119 9,884
Total	6,003

O.—Statement showing the Quantity of Through Freight passed down the Welland Canal, &c.—Concluded.

#### ${\tt RECAPITULATION-Concluded}.$

Articles.	Quantity passed down to, Montreal,	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on Lake Ontario.
1907.	Tons.	Tons.	Tons.
Barley Corn Oats Pease	9,936 106,299 67,063	492 31,901 1,565	2,812 133,493 4,741 25
RyeWheat	2,266 *450,009	$\frac{2}{8,072}$	22,222 22,222
Total grain. Other articles	635,573 153,594	42,032 126,423	163,295 93,127
Total	789,167	168,455	256,422
1908.			
Barley Corn Oats	24,318 10,454 28,081	3,546 11,489 3,272	3,308 $105,459$ $2,070$
Pease Rye Wheat	6,662 4686,626	3 19,832	$\begin{array}{c} 40 \\ 2 \\ 24,293 \end{array}$
Total grain	756,141 108,785	38,142 162,378	135,172 91,875
Total	864,926	200,520	227,047
1909.	10.149		
Barley. Corn. Oats Pease	$ \begin{array}{r} 19,143 \\ 17,137 \\ 65,624 \\ 30 \\ 22 \end{array} $	22,798 2,872	4,008 100,967 6,639 33
Rye Wheat	33 550,775	14,568	17,940
Total grain	652,742 272,263	$\begin{array}{c} 40,238 \\ 113,970 \end{array}$	$\begin{array}{c} 129,587 \\ 126,223 \end{array}$
Total	925,005	154,208	255,810
1910.			
Barley Corn Oats Pease	20,000 77,612 129,900	49,326 6,333	1,575 103,042 
Rye	562,149	7,998	10,717
Total grain	789,661 380,500	63,657 152,325	115,457 55,683
Total	1,170,161	215,982	171,140

TABLE 1.—Comparative Statement of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation, 1999 and 1910.

1 GEORGE V., A. 1911

Cargo.	United States.		24,494,750 975,710 699,832 128,696 700 23,037 5,835 14,131	26,342,691	33,017,419 1,129,344 787,311 143,699 7,988 13,838 13,838
Origin of Cargo.	Canadian.		3,366,495 1,060,241 1,710,797 623,421 79,150 79,254 331,104 77,643	7,378,057	3,378,268 1,196,946 1,973,441 525,700 85,700 877,268 121,048 46,263 8,283
Total Tons.			27,861,245 2,025,951 2,410,629 762,117 79,850 102,291 336,939 91,774 59,952	33,720,748	36, 395, 687 2, 326, 290 2, 760, 752 663, 299 86, 951 177, 941 184, 881 46, 263 8, 283 8, 283
75.	Down.		24,436,502 1,383,862 1,630,208 140,171 52,062 29,179 282,483 45,433 42,133	28,042,023	4,813,147         31,582,510         36,395,687           724,834         1,601,466         2,326,290           844,019         1,916,733         2,760,752           33,711         152,240         669,299           162,292         177,941         162,240           17,729         37,532         385,261           59,513         75,338         134,881           15,653         36,568         184,881           15,652         36,568         184,881           8,152         36,568         8,283           7,232,455         35,758,153         42,990,608
Tons	Up.		3,424,743 642,089 780,421 611,946 27,798 73,112 54,456 46,341 17,819	5,678,725	4,813,147 724,834 844,019 513,739 33,731 162,292 56,513 15,665 8,152 8,152
ted States	Down,		167,881 551,837 661,557 128,696 21,935 12,148	1,544,054	117,058 654,264 770,978 143,599 7,103 12,280
From United States to Canadian Ports.	Up.		1,000,300 11,467 3,769 629 672 672 672 672 672 673 1,827	1,023,829	969,248 16,229 229 7,806 1,460
From United States to United States Ports.	Down.		22,188,388 196,838	22,385,226	3,035,290 29,332,862 288,198 197,301 334 197,301 3,323,822 29,530,163
From United States to United States Ports	Up.		1,736.801 248.581 140	1,985,522	3,035,290 288,198 33.4 3,323,822
madian tes Ports.	Down.		512, 293 16, 469 36, 547 42, 333 252	607,894	565,335 6,983 22,235 5,870 61,013 6,870
From Canadian to United States Ports.	Up.		46,041 164,304 242,954 606,466 150 334	1,060,715	28,648 154,617 286,075 130,245 555 565 74 4
unadian 1 Ports.	Down.		1,567,940 618,718 932,104 11,475 52,052 7,244 240,150 33,033 42,133	3,504,849	1,567,285 742,908 1,123,520 12,307 52,230 8,546 266,519 67,218 80,548 131 131 131
From Canadian to Canadian Ports.	Up		641,601 217,737 533,568 5,480 27,169 72,034 49,131 44,120 17,819	1,608,659	779,961 265,730 556,833 383,148 383,148 384,148 161,737 49,933 56,049 15,665 8,152 8,152
Canals.		1909.	Sault Ste, Marie Welland St. Lawrence Chambly St. Peter's Murray Ottawa Rideau	Grand total	Sault St. Marie. Welland St. Lawrence: Chambly St. Peter's. Murray. Rideau. Rideau. Trent. St. Andrew's.

SESSIONAL PAPER No. 20a

eason of	Total Tons.			3,173,494 1,461,499 2,910,395 97,797 110,907 176,447 106,242 172,085 378,087 44,887	8,931,750	20,187,704 482,144 687,018 369,449 41,963 6,795 811	21,777,297	30,709,087
ring the S	ns.	Down.		1,534,093 723,093 1,445,826 46,380 207,838 88,812 52,349 136,389 136,389	4,343,815	14,598,918 250,893 350,754 191,601 23,624 3,344 677	15,420,494	1,203,147 10,944,778 19,764,309 30,709,087
anals du	Tons.	Up.		1,639,401 738,497 1,464,569 51,417 203,069 87,635 53,803 85,400 22,426	4.587,975	5,588,786 231,251 336,264 177,848 18,339 3,451 134	6,356,803	10,944,778
the Number, Tonnage and Nationality of Vessels passed through the several Canals during the Season of Navigation in 1910.	ted States o n Ports.	Down.		113,906 246,325 249,817 7,170 6,340	627,046	42,111 214,727 128,260 190,335 301	576,101	1,203,147
ough the	From United States to Canadian Ports.	Up.		270,561 15,633 1,361	287,555	266,890 12,317 927 17,568 1,736	299,462	587,017
assed thr	From United States to United States Ports.	Down.		89,461 7-7-1	89,618	14,268,834 977 218,745	14,488,565	5,604,568 14,578,183
Vessels printer 1910.	From United States to United States Ports.	Up.		76,096 18,839 216	95,151	5,220,109 12,659 277,249	5,509,417	5,604,568
Nationality of Vess Navigation in 1910	anadian tes Ports.	Down.		120,788 260 1,633 605	122,688	270.188 8,041 2,430 22,203 2,313 1,55	305,330	428,018
nd Natio Navig	From Canadian to United States Ports.	Up.		100,620 175,546 10,104 12,081 4,351	313,656	26.865 165.640 57.999 177,848	428,702	742,358
Onnage a	anadian	Down.		1,209,938 476,520 1,195,749 39,210 206,805 52,349 86,685 132,873	3,504,463	17,785 27,1485 1,319 1,206 1,120 1,120 1,031 367	50,498	3,554,961
fumber, 7	From Canadian to Canadian Ports.	Up.		1,192,124 528,479 1,452,888 39,336 203,069 83,284 53,893 85,400 230,714 230,714	3,891,613	74,925 41,235 41,235 89 771 1,771 1,715 134	119,222	4,010,835
೬ೂ	Total Number	Trips.		2,744 1,852 8,834 619 1,159 1,466 1,240 1,240 1,240	25,337	5, 228 1, 392 692 3, 600 412 66	11,462	36,799
Table 2,—Statement showin	V 5880 15.		Canadian Vesseds. Steam and Sail.	Sault Ste. Marie Welland St. Lawrence Chambly Ottawa. St. Reteris Trent Valley Murray. St. Andrew's.	Total Canadian UNITED STATES VESSELS.	Sault Ste. Marie. Welland St. Lawrence Chambly Ottawa. Ridean Tst. Peter's. Trent Valley Murray. St. Andrew's	Total United States	Grand total Canadian and U.S

 $20a - 4\frac{1}{2}$ 

# 1 GEORGE V., A. 1911

\*Table 3.—Statement showing the Number, Tonnage and Nationality of Vessels

* usels,	Total Number	From Can Canadian		From Car United Sta	
encia.	of trips.	Up.	Down.	$U_{P}$ .	Down.
SAULI STE MARIE CANAL.					
Canadian vessels steam	2,652 92	$\substack{1,175,362 \\ 16,762}$	1,195,110 14,828	$\frac{96,171}{4,449}$	120,788
Total Canadian	2,744	1,192,124	1,209,938	100,620	120,788
United States vessels, steam	5,103 125	67,950 6,972	17,507 278	26,845 20	264,640 5,548
Total United States	5,228	74,922	17,785	26,865	270,188
Grand total of Sault Ste. Marie Canal	7,972	1,267,046	1,227,723	127,485	390,976
Welland Canal,					
Canadian vessels, steam	1,316 536	482,482 45,997	433,387 43,133	112,091 63,455	
Total Canadian	1,852	528,479	476,520	175,546	
United States vessels, steamsail	646	89	1,319	39,528 18,476	2,430
Total United States	692	89	1,319	57,999	2,430
Grand total, Welland Canal	2,544	528,568	477,839	233,545	2,430
St. Lawrence Canals.					
Canadian vessels, steam	4,251 4,583	$831.546 \\ 621,342$	632,368 563,381	$\frac{5.862}{4.742}$	98 162
Total Canadian	8,834	1,452,888	1,195,749	10,104	260
United States vessels, steam	772 620	18,898 22,337	8,018 19,130	135,316 30,324	253 7,788
Total United States	1,392	41,235	27,148	165,640	8,041
Grand total, St. Lawrence Canals	10,226	1,494,123	1,222,897	175,744	8,301
CHAMBLY CANAL.					
Canadian vessels, steam.	299 320	34,053 5,283	34,105 . 5,105	12,081	
Total Canadian	619	39,336	39,210	12,081	
United States vessels, steamsail	3,600		1,206	177,848	
Total United States	3,600		1,206	177,848 .	
Grand total, Chambly Canal	4,219	39,336	40,416	190,929 .	
Ottawa Canals.					
Canadian vessels, steamsail	972 1,217	97,812 105,257			569 464
Toʻal Canadian	2,189	203,069	206,805		1,033

SESSIONAL PAPER No. 20a passed through the several Canals during the season of Navigation in 1910.

	ed States to ates Ports,		sed States to un Ports.	Te	ons.	Total Tons.	
Up.	Down.	τ†p.	Down,	. Up.	Down.		
71,207 4,889	85,961 3,500	267,299 3,262	106,388 7,518	1,610,039 29,362	1,508,247 25,846	$3{,}118{,}286$ $55{,}208$	
76,096	89,461	270,561	113,906	1,639,401	1,534,093	3,173,494	
5,135,154 84,955	14,162,381 106,453	262,794 4,096	42,111	5,492,743 96,043	14,486,639 112,279	14,979,382 208,322	
5,220,109	14,268,834	266,890	42,111	5,588,786	14,598,918	20,187,704	
5,296,205	14,358,295	537,451	156,017	7,228,187	16,133,011	23,361,198	
	,						
18,471 368	157	13,031 2,602	179,130 67,195	626,075 112,422	612,674 110,328	1,238,749 222,750	
18,839	157	15,633	246,325	738,497	723,002	1,461,499	
276,680 569	218,745	927	111,629 16,631	317,219 19,045	334,123 16,631	651,342 35,676	
277,249	218,745	927	128,260	336,264	350,754	687,018	
296,088	218,902	16,560	374,585	1,074,761	1,073,756	2,148,517	
216		145 1,216	192,780 57,037	837,269 627,300	825, 246 620, 580	1,662,515 1,247,880	
216		1,361	249,817	1,464,569	1,445,826	2,910,395	
11,263 796	977	6,554 5,763	177,304 37,423	172,031 59,220	186,552 64,341	358,583 123,561	
12,059	977	12,317	214,727	231,251	250,893	482,144	
12,275	977	13,678			1,696,719	3,392,539	
			7,170	34,053 17,364	34,105 12,275	68,158 29,639	
			7,170	51,417	46,380	97,797	
			190,395	177,848	191,601	369,449	
			190,395	177,848	191,601	369,449	
			197,565	229,265	237,981	467,246	
				97,812 105,257	$102,612\\105,226$	200,424 210,483	
				203,069	207,838	410,907	

1 GEORGE V., A. 1911 Table 3.—Statement Showing the Number, Tonnage and Nationality of Vessels

Vessels.	Total Number	From Ca to Canadiar	) •	From Canadian to United States Ports.		
	of Trips.	Up.	Down.	Up.	Down,	
CHAMBLY CANAL.						
United States vessels, steam				,	. 280 21,923	
Total United States	412	771	1,120		. 22,203	
Grand total, Ottawa Canals	2,601	203,840	207,925		23,236	
RIDEAU CANAL.						
Canadian vessels, steam	2,105 644	57,602 25,682	56,987 24,880		605	
Total Canadian	2.749	83,284	81,867	4,351	608	
United States vessels, steam	2 64	9 1,706	1,022	•••••	2,318	
Total United States	66	1,715	1,031		2,313	
Grand total, Rideau Canal	2,815	84,999	82.898	4,351	2,918	
St. Peter's Canal.						
Canadian vessels, steam	310 1,156	17,414 36,479			••••	
Total Canadian	1,466	53,893	52,349			
United States vessels, steam	2 2	134	37 485	• • • • • • • • • • • • • • • • • • • •	158	
Total United States	4	134	522		155	
Grand total, St. Peter's Canal	1.470	54,027	52,871		155	
TRENT VALLEY CANALS.						
Canadian vessels, steam	2,794 648	68,746 16,654	68,336 18,349	• • • • • • • • • • • • • • • • • • • •		
Total Canadian	3,442	\$5,400	86,685			
United States vessels, steamsail						
Total United States				• • • • • • • • • • • • • • • • • • • •		
Grand total, Trent Valley Canals	3,442	85,400	86,685			
MURRAY CANAL.						
Canadian vessels, steamsail	845 395	194,763 35,951	101,957 30,922	3,085 7,869	2	
Total Canadian	1,240	230,714	132,879	10,954	2	
United States vessels, steamsail	47 21	87 269	329 38	243 107		
Total United States	68	356	367	350		
Grand total, Murray Canal	1.308	231,070	133,246	. 11,304	2	

SESSIONAL PAPER No. 20a passed through the several Canals during the Season of Navigation in 1910—Continued.

From Uni t United Sta	0	From Uni to Canadia	0	То	ns.	Total
$\mathbf{U}_{\mathbf{P}}.$	Down.	. пр.	Down.	Up.	Down.	Tons
		17,568	301	180 18,159	520 23,104	700 41,263
		17,568	301	18,339	23,624	41,963
		17,568	301	221,408	231,462	452,820
			6,122 218	61,953 25,682	63,109 25,703	125,062 51,385
			6,340	87,635	88,812	176,447
		1,736		3,442	3,335	6,777
		1,736		3,451	3,344	6,795
		1,736	6,340	91,086	92,156	183,242
····		\ <u>.</u>		17,414 36,479	15,570 36,779	32,984 73,258
	,			53,893	52,349	106,242
				134	37 640	171 640
				134	677	811
				54,027	53,026	107,053
				68,746 16,654	68,336 18,349	137,082 • 35,003
				85,400	86,685	172,085
				85,400	86,685	172,085
			1,083 2,405			300,888 77,149
•••••			3,488		136,369	378,037
	9	24	254 53	354 376	592 91	946 467
	9	24	307	730	683	1,413
	9	24	3,795	242,398	137,052	379,450

1 GEORGE V., A. 1911 TABLE 3.—STATEMENT showing the Number, Tonnage and Nationality of Vessels

Vessels.	Total Number	From Ca to Canadian		From Canadian to United States Ports.		
	of Trips.	Up.	Down.	Up.	Down.	
St. Andrew's Canal.	1					
Canadian vessels, steam sail		21,489 937	$\frac{21,425}{1,036}$ .			
Total Canadian	202	22,426	22.461			
United States vessels, steam sail						
Total United States					,	
Grand total, St. Andrew's Canal.	202	22,426	22,461			

passed through the several Canals during the season of Navigation in 1910 - Concluded.

Total	18.	Tons	ited States on Ports.	t	From United States to United States Ports.	
Tons.	Down.	Up	Up. Down.		Up. Down,	
42,914 1,973	21,425 1,036	21,489 937				
44,887	22,461	22,426				
44,887	22,461	22,426				

# 1 GEORGE V., A. 1911

Table 4.—Comparative Statement of all the Canals for the Years ended December 31, 1909 and 1910.

	-			
Articles.	1909.	1910.	Increase,	Decrease.
Class No. 1.	Tons.	Tons.	Tons.	Tons.
Canadian vessels, steam	6,150,224 1,661,354 15,726,035 733,287	$\substack{6,927,062\\2,004,728\\20,991,142\\786,155}$	776,838 343,374 5,265,107 52,868	
Total, class No. 1	24,270,900	30,709,087	6,438,187	
Class No. 2.	No.	No.	No.	No.
Passengers	272,222	320,574	48,352	
Cluss No. 3.	Tons.	Tons.	Tons.	Tons.
Barley Buckwheat Corn Oats Rye Flax Peas Wheat Flour Hay Other mill products Fruit and vegetables Potatoes Live stock Poultry, game, fish Dressed meats Other packing house products Hides and leather Wool All other animal products  Total, class No. 3	176,577 6,789 180,203 432,769 7,688 206,750 326 3,397,567 324,044 36,503 57,288 15,036 9,457 1,635 3,064 573 3,201 594 287 14,947	161,016 1,048 336,592 565,430 4,272 85,654 3,222,862 367,187 42,846 55,003 16,026 7,082 2,250 2,815 148 1,205 1,261 675 12,169 4,881,881	156,389 132,661 14 39,143 6,343 990 615	15,561 5,741 3,416 121,096 174,705 2,285 2,375 249 425 1,996 2,778 330,627
Class No. 4.  Agricultural implements Cement, bricks, lime. Household goods and furniture Iron, pig and bloom and steel, all other Petroleum and other oils Sugar and salt Wines, liquors and beers Merchandise not enumerated  Total, class No. 4.	18,836 489,745 2,517 98,667 309,188 99,980 104,474 18,314 723,680 1,865,401	28,358 728,453 3,797 115,997 252,061 106,191 101,003 28,316 861,361 2,225,587	9,522 238,708 1,280 17,330 6,211 10,002 137,681 420,734	57,127 3,471 60,598

Table 4.—Comparative Statement of all the Canals for the Years ended December 31, 1909 and 1910—Concluded.

Articles.	1909.	1910.	Increase.	Decrease.
Class No. 5.	Tons. 883,937	Tons.	Tons.	Tons.
Sawed lumber Squared timber Shingles. Other woods.	668,780 31,772 8,992 95,665	735,589 58,633 11,475 98,294	66,809 26,861 2,483 2,629	100,510
Total, class No. 5	1,689,146	1,681,418	98,782	106,510
Class No. 6.				
Hard coal Soft " Coke Copper ore.	933,234 3,090,799 1,456 8,329	$\begin{array}{c} 1,208,722 \\ 4,429,222 \\ 792 \\ 37,986 \end{array}$	275,488 1,338,423 29,657	664
Iron " Other "	21,204,848 52,237	28,494,716 30,334	7,289,868	21,903
Total, class No. 6	25,290,903	34,201,772	8,933,436	22,567
Grand total	33,720,748	42,990,608	9,790,162	520,302

Net increase, 9,269,860.

1 GECRGE V., A. 1911

TABLE 5.—Statement of Traffic on the Undermentioned Canals during the Season of Navigation in 1910.

St. Andrew's	Tons. 12.914 1,973	14,887	No. 6,398			125	ξί · · ·			191
Murray.	Tons. 300,888 77,149 946 467	379,450	No. 33,782	Tons.		ā	4,247	282	46 <u>28</u>	1,561
Trent Valley.	Tons. 137,082 35,003	172,085	No. 69,186	Tons, 6	হাস্ত্র ভ	F. 61 % S.	132	27	No E	1,063
St. Peters.	Tons. 32,984 73,268 171 6-10	107,053	No.	Tons. 7		1,935	627 974 5,736	2, 32, 32 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	. 6160	19,470
Ridean,	Tons. 125, 662 51,385 6,777	183,242	No. 26,040		316 23.6 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	25 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	307 180 181	8 r-10 20 8 r-10 20	1,841	5,000
Ottawa,	Tons. 200, 424 210, 482 700 11, 263	452,870	No. 26, 158	Tons, 19	16 35 T	773 773 2,244	916	26. 28. 173.	2,225	8,834
Chambly.	Tons. 68,158 29,639 369,449	467,246	No. 2,399	Tons.	<sup>1</sup> 옮겼 :	33 101 1,117 18,801	2,697 7,892 2,823	12 12 88	-8	24,071
St. Lawrence Chambly.	Tons. 1,662,515 1,247,880 358,583 123,561	3,392,539	No. 120,732	Tons. 21,654	101,258 110,709 161 8,919	582,426 34,650 31,650 11,743	20,267 6,895 6,895	85 7 8 F	28 % (-	940,365
Welland.	Tons. 1,238,749 222,750 651,342 35,676	2,148,517	No. 1,655	Tons. 21,575	229,980 136,233 6,942	587,493 41,152 841	18,149	2031 2031	238	1,043,226
Sault Sto. Marie.	Tons, 3,188,286 55,208 19,979,382	23,361,198	No. 33,291	Tons. 117,687	282,369 3,780 69,752	2,051,889 283,126 5,667	11,00,1 18,00 14,00,00	- 21g	88 E	2,835,125
Articles.	Canadian vessels Steam United States vessels Sail	Total, Class One.	Cluss No. 2. Passengers	(7ass No. 3, Barloy Backwheat	Com Oats Rye Flax	Feas Power Flow Hay	Other unit products. Fruit and vegetables. Potators.	Foultry, game and fish. Dressed meats. Other packing house products. History and Inches.	Wool All other animal products.	Total, Class Three

SE	ESSIONAL PAPER	No. 20	Оа					
	(2n : :: : : : : : : : : : : : : : : : :	177	6.228 317 1,407	7,952				8,283
	149,860 121,121,141,242,242,242,242,242,242,242,	162,506	2,113 2,113 89	3,471			7,400	177.941
	1.88.42 24.88.42 24.88.42 26.60 26.6	8,672	5,963 1,782 543 189 27,372	35,849	1883	\$ 7.5 3.15	679	46,263
	2, 639 49 64 64 505 505 1, 142 1, 142 2, 833	7,889	8,168 431 886 886 639	10,124	41,913	0.40 0.868 0.868	48,468	85,951
	9, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28	76,299	2,049 29,472 788 110 7,607	40,026	9,662		13,547	134,881
-	1968 20,268 227 227 1,108 1,108 4,332 4,332 13,908	72,234	218,230 6,605 65 43,299	268,199	29,287	1,843	35,934	385,261
	118 62 114 843 152 163 669 73 14,059	21,834	364,717 . 130,305 . 19 . 14 .	496,119	99,128	23,547	127,275	669,299
	247 191,531 1,700 21,101 63,285 37,285 16,936 16,936 16,936 16,936	497,007	264,062 259,667 28,776 545 11,278	564,328	278,184 476,093 300	4,311	759,052	2,700,752
	13,624 110,987 146 20,374 37,207 57,807 43,668 10,068	516,333	123,143 21,372 8,097 525 1,600	154,737	215,501 361,990 192	29,779	611,994	2,326,290
	13.624 149,561 1,184 72,929 145,788 8,176 30,332 4,838 438,034	862,526	10,350 64,163 13,285 9,141 3,674	100,613	601,208 3,508,357	28,440,952 11,100	32,597,423	36,395,687
Class No. 4.	Agricultural implements. Cement, bricks, lime. Household goods and furniture. Iron.—Pig and bloom. and steel, all other. Petroleum and other ouls. Sigar and salt. Wires, liquors and beers. Merchandise not enumerated.	Total, Class Four	Pulywood. Sawed lumber. Squared funber. Shingles Other woods.	Total, Class Five	Hard coal Soft " Coke Copper ore		Total, Class Six.	(Arand total)

TABLE 6—SUMMARY Statement of Traffic on the undermentioned Canals during the Season of Navigation, ended December 31, 1910, showing the total quantity of each description of property passed through.

					1 (	SEORGE	E V., A. 1911
St. Andrew's	Tons.		Tons. 6,228 317	7,952			
Trent Valley.	Tons. 172,085	No. 69,186	Tons. 5,963 1,782 543 189 27,372	35,849	270 1 12 5 5	435	φ . Αν <u>φ</u>
Murray.	Tons. 379,450	No. 33,782	Tons. 915 2,113 89	3,471	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	149	
St. Peter's.	Tons.	No. 633	Tons. 8,168 431 886 639	10,124	28.328 20.00	2,599	685.4 100
Rideau.	Tons.	No. 26,040	Tons. 2,049 29,472 788 788 110 7,607	40,026	13 205 205 4 4 1,844	2,124	45 426 426 22
Ottawa.	Tons.	No. 26,458	Tons. 218,230 6,605 65,43,299	268,199	649 88 2 2 257 111 2.235	3,242	19 855 4 4
Chambly.	Tons.	No. 2,399	Tons. 364,717 130,305 19 19 1,064	496,119	233 123 98 120 1	404	22 22 22 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
St. Lawrence	Tons.	No. 120,732	Tons. 264,062 259,667 28,776 11,278	564,328	1,003 168 47 365 77 29 7,825	9,514	21,654 1,038 101,258 140,709 461 8,919
Welland.	Tons.	No. 1,655	Tons. 123,143 21,372 8,697 525 1,600	154,737	202.	888	21,575 223,980 134,233 6,942
Sault Ste. Marie.	Tons.	No. 33,291	Tons, 64,163 64,163 13,285 9,141 3,674	100,613	47 12 903 394 12	, 1,368	117,687 4,879 282,369 3,780 69,792
	Vessels of all kinds	Passengers.	Forest Produce of Wood. Sawood Imber. Sayuared limber. Shingles.	Totals	Live stock Poultry, game and fish Dressed meats Other packing house products Hides and leather. Wool.	Total	Barley Buckwheat Corn Odor Rye Flax

SESSIONAL F	PAP	ER No. 20a				
125	154	ිව <sub>ි</sub>	177			8,283
229 866 86 50 62 62	859	7,886 46 46 72 72 11 11 1,003	8,672	92 183 183 30	629	46,263
20 148 4,247	4,415	149,880 121 667 1,412 277 277 272 9,533	162,506	7,400	7,400	177,941
1,935 2,996 627 974 5,736	16,871	2,639 49 64 64 505 505 1,142 140 2,833	7,889	41,913 41,913 240 5,868	48,468	85,951
642 348 379 307 180 180	2,885	60,392 260 343 1,212 1,212 3,636 697 8,385	76,299	3,662	13,547	134,881
2,214 916 916 449 449	5,592	50,268 50,268 333 11,08 11,08 4,335 4,335 13,908	72,294	29,287 300 300 1,843	35,934	385,261
337 1,117 18,801 2,697 222	23,667	25,74 62 114 114 152 163 163 163 163 163 163 163 163 163 163	21,834	99,128 357 23,547 4,243	127,275	669,299
146 582, 426 34,650 11,743 20,267 6,895 6,895	930,851	246 191,531 1,700 13,101 16,386 16,386 10,902 10,902	497,007	278,184 476,093 300 164 4,311	759,052	2,760,752
123 587,493 41,152 841 18,149 50	1,042,538	13,624 110,987 146,274 20,374 37,207 57,807 43,683 10,668	516,333	215,501 361,990 192 2,180 29,779 2,352	611,994	2,326,290
2,051,889 283,126 5,667 14,252 314	2,833,757	13,621 149,561 1,184 1,184 1,72,929 1,487 8,176 8,176 4,898 4,898	862,526	601, 208 3,508,357 35,806 28,440,952 11,100	32,597,423	36,395,687
Peas Wheat. Flour Hay. Cher mill products. Fruits and vegetables.	Total	Agricultural implements. Cement, bricks and lime. Household goods and furniture. Iron, pig and bloom. Iron, steel all other. Sugar and salt. Sugar and salt. Wines, liquors and beers. Merchandise not enumerated.	Total	Hard coal. Soft Coke Iron Tron Other	Total	Grand totals (passengers and ton- nage of vessels not included)

Table 7 (No. 1)—General Statement showing the Quantity of each Article Transported on the Sault Ste. Marie Canal during the Season of Navigation in 1910.

				-							V., A	
	Cargo.	United States.	37,538	601,208 3,508,357		29,253		22,094 26,312	22,052 16,186 7,994	679 11,100 1,220 28,440,952	1,912	3,080
	Origin of Cargo.	Canadian	13,624 12 80,149	149,561	628°F	52,075 253,873	5,667	50,835 119,476	113,982 266,189 6,258	2,995	6,264	10,350
ķ.	Total Tons.		13,624 12 117,687	149,561 661,208 3,508,357	4,879	69,792 283,126	5,667 1903 1184	72,929 145,788	436,034 282,369 14,252	3,674 3,674 11,100 35,806 28,440,952	8,176	10,350 3,780
	× <u>;</u>	Down.	117,687	1 14,300 95,994	4,879	69,792 282,978	1,050 SSS	9,050	37,908 282,369 14,162	11,100 11,100 35,806 25,440,952	1=	10,350
	Tons	Up.	13,624	149,560 586,908 3,412,363			1,617	63,879 119,931	398,126	3,035	8,099	21
	From United States to Canadian Ports.	Бомп.		53,610		5,909			4,396 3,589 7,984	19,990		
	From United Starto to Canadian Ports.	Up.		112,361 814,858				24,608	2,912		1,864	
	From United States to United States Ports.	Down.	90,299	14,300	4,879	24,862 85,958	F20	8,650 1,267	16,809 28,575	11,100 35,806 28,420,962	22	5,700 3,780
		Up.		10,125 46×,739 2,423,778			08 :	570 55,098	62,156	373	1,950	
	nin lian States	Down.	6,819			34,601	98	3,360	5,129			4,650
	From Canadian to United States Ports.	Up.		165		01		1,340	10,249		62	
	From Canadian to Canadian Ports.	Down.	12 20,569	3,350		10,329 181,571	1,04	21,230	11,574 232,888 6,178	31 <u>6</u>		
	Can Can P.	Up.	13,624	139,270 4,808 158,527		138 138	1,587	57,693	322,809	5,662	4,206	21
	Articles,			Cement, bricks, &c. Coal, hard Cokesoft		Flax Flour Fruits and vegetables	Hay Hides and leather Household goods	fron, pig and bloom fron and steel, all other Live stock	Merchandise Oats. Other mill products	r packing house products. woods Ore, all other. copper.	Petrolenn Poultry, game and fish	Potatoes. Pulpwond Rye

14,430 3,456 4,537 1730 1850	,017,419
49,733 5,685 9,048 25,612 4,809,211 4,648	3,378,268 33
64,163 9,141 13,285 30,332 2,651,889 4,898 394	36,395,687
59,141 9,141 2,162 115 115 55 55 394	4,813,147 31,582,540 36,395,687 3,378,268 33,017,418
5,022	4,813,147
894	117,058
1,908 3,912 25	969,218
34,605 8,831 713 713 80 475,063 19 19 39 19	3,035,290 29,332,862
884	3,035,290
22,179	565,335
1,075 1,075 861 1,075	28,648
1,075,176	1,567,285
2,230 7,051 17,590 4,419	779,961
Sawed lumber. Shingles. Square timber. Sugar and saft. Wheat. D Wines, liquors and beers.	Sa Total freight

Table 7 (No. 2)—General Statement showing the Quantity of each Article Transported on the Welland Canal during the Season of Navigation in 1910.

								1911
f Cargo.	United States.	3,840	2,700 215,501 361,990 229,980	11,859	233 2 981 14,993	75,932	1,600 1,552 1,552 29,180 29,779 123 30,938	738
Origin of Cargo.	Canadian.	13,624	108,287	2942	841 15 144 19,393 22,214	146,520 136,233 1,584	800	122,383
Total Tons.		13,624	215,501 361,990 361,990 229,980	6,942 41,152 50	20,374 37,207	222, 452 136, 233 18, 149	1,600 2,352 2,180 29,779 123 57,807	123,143
Топя,	Down.	21,575		6,297	233 1,379 16,330	47,273 136,233 17,036	1,583 1,552 2,180 29,779 123 56,621	- · · · · · · · · · · · · · · · · · · ·
To	Up.	13,624	101,833 215,501	645	841 15 141 18,995 20,877	175,179	.008 .008 .1,186 .202	123,143
From United States to Canadian Ports.	Down.		357,579 103,042	- 19 <u>-</u>	993	7,483 2,377 7,994	2, 180 29, 773 29, 319	• • • •
Fig. United to Cana Por	Up.		15,974			255		
rom d States to d States nts.	Down.	3,840	4,411	11,859	233	15,478	1,583	
From United States to United States Ports.	Up.		2,000	0c		52,080	202	1,531
From Canadian to ited States Ports.	Down.					1,289		
From Canadian to United States Ports.	Up.		535	9	1,419	21,240	1,049	120,577
From Canadian to Canadian Ports.	Down.	17,735	8,954	6,297	386	23,023 133,856 471	27,302	
From Canadia to Canadia Ports.	Up.	13,624	2,045	• • • •	241 15 141 17,576 18,933	101,604	800 00 129	1,035
Articles.	$\Lambda$ rticles.		Cement, bricks, &c. Coal, hard Coke. Coke. Corn. Pressed meats	Flan Flur Friits and vegetables.	Hay Hides and leather Household goods. Iron pig and bloon Iron and steel, all other	Merchandise. Oats. Cher mill products packing house products	Ore, all other copper iron. Peas Petroleum Peutry, game and fish.	

SESSIONAL	PAPE
12,970 25,730 34,914 73,211 309 238	1,129,344
8,402 500 2,367 8,754 514,282 9,759	1,196,946
21,372 525 8,097 43,668 587,493 10,068 238	2,326,290
21,372 525 8,017 1,029 587,403 2,127 2,127 233	1,601,456
42,646 7,941	724,834
4,600 625 90,467 1,616	654,264
	16,229
11,738 25 55 10,717 233	197,301
34,723	288,198
5,194	6,983
1,954	154,617
1,440 3,417 386,309 511	742,908
3,440	265,790
Sawed lumber. Shingles. Siguare timber. Sigar and salt. Wheat Wines, liquors and beers.	Total freight.
20a—5	$\frac{1}{2}$

Table (7) No. 3.—General Statement showing the Quantity of each Through Article Transported on the Welland Canal during the Season of Navigation in 1910.

							1 GEORGE V		1911
f Cargo.	United States.	3,840	2,700 215,501 361,990 229,980	11,859	1,973 1,973	75,932	1,600 1,552 2,180 29,779 123 30,938	760	12,970 25 5,730
Origin of Cargo.	Canadian.	13,624	99,617	6,942 29,293 29,293 341	19,007 21,222	126,221 136,233 1,584	800 800 86,869	122,383	8, 392 500 000 £
Total tons		13.624	215,317 215,501 361,990 192 229,980	6,942 41,152 50 841 841	19,988 19,988 28,797	202,153 136,233 18,149	1, 600 1, 2, 2, 3, 2, 180 1, 1	123,143	21,362 525 7,730
	Down.	21,575	484 361,990 192 229,980	41,152	5.993 7,920	27,492 136,233 17,036	1,583 1,582 2,180 29,779 123 56,621		21,362 525 7,730
Tons	Ŭp.	13,624	215,501	645 50 50 841 15	141 18,995 20,877	174,662	202 202	123,143	
From U. States: Canadian Ports.	Down.		200 357,579 192 103,042	(a)	7,695	7,483 9,377 7,994	29, 180 29, 779 29, 319		4.600
From U	$U_{\rm P}$ .		15,974			100			
States Ports.	Down.	3,840	4,411	11,859		15,478	1,583		11,738
From U. States to U. States Ports.	Ul»		2,000			52,080		1,531	
From Canadian to U. States Ports.	Бомп.					1,289			5,194
From Canadian to to U. States Ports.	Up.		66i	042	1,419	21,240	8 6 7	120,577	
Canadian to ian Ports.	Down.	17,735	TS7	6,297 28,593	925	3,242 133,856 471	27,302		4,430
From Canadian to Canadian Ports	Up.	13,624	3,045	35	141 17,576 18,933	101,086	S	1,035	
Articles		Agriculaural implements All other animal Barley Pand-wheet			Household goods. Iron, pig and bloom. Iron and steel, all other. Live stock	products		Pulpwood Rye	

SESSIC	IAN
34,914 73,211 309 233	33 2,281,519 1,159,593 1,121,926
8,754 507,653 9,759	1,159,593
13,668 580,864 10,068	2,281,519
1,022 580,864 2,127 233	724,236 1,557,283
42,646	
90,467	946,846
233	16,220
9	197,301
34,723	288,198
	6,983
1,954	154,617
397 479,680 511	706,153
5,969	265,192
Sugar and salt 5,969 Wheat Wines, liquors and beers 3,440	Total freight

TABLE 7-No. 4-General Statement showing the Quantity of each Way Article Transported on the Welland Canal, during the season of Navigation in 1910.

								-1	GEO	RGE	V., /	A. 191
f Cargo.	United States.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					7,418					
Origin of Cargo.	Canadian.		8,670				386	20,299				
Total Tons.		· · · · · · · · · · · · · · · · · · ·	8,670	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			386	20,299				
Tons.	Down.		8,670				386	19,781				
4	Up.	* - · · · · · · · · · · · · · · · · · ·						21.8				
From United States to Canadian Ports.	Down.						7,418					
Francisco Property Can:	Up.											
From United States to United States Ports.	Down.			· · · · · · · · · · · · · · · · · · ·								
Pro United United	Up.											
From Canadian to United States Ports,	Down.											
Fr Can t United Por	Up.											
From Canadian to Canadian Ports.	Down.		8,670	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • • • • • • • • • • • • • • • • • •		386	19,781				
Cam Cam Po	Up.							518				
Articles.		Agricultural Implements. All other animals. Barley.	Buckwheat. Cement, bricks &c. Coal, hard.	Coke. Corn. Dressed meuts	Flax. Flour. Crusts and Secretables	Hay. Hides and leather.	Household goods.  Iron, Pig and bloom.  Iron and steel, all others.	Merchandise. Oats.	Other mill products.  " packing house products. " woods,	Ore, all other	Peas. Petroleum.	Foultry, game and fish Potatores. Pulpwood

	ES.	51	Oï	ν <i>Ρ</i>	۱۲.	PAPE
:	:				:	7,418
:	:			:		
10	19		6,629	:	:	37,353
	:	:	9	:	:	37,
10	:	-	6	<u>:</u>	<u>:</u>	<u> </u>
_	367	:	6,629	:		44,771
	:			:		7
10	.28.	-	6,629	:	:	44,173
	:	:	ల్	:	:	#
	: 0%	:	_	:		<u>∞</u>
	- 30	:	:	:	:	598
<u>:</u>	:	:	:	:	:	
:		:	:	:	:	7,418
		:	:	:	:	-
:	: :	:	:	:	:	:
:		:	:	:	:	
:	: :	:	<u>:</u>	:	: :	:
		:	:	:		
<u>:</u>	: :	:	:	:		
		:	:	:		
:	: :	:	:	:		
:	: :	:	:	:		
:		:	:	:		
<u>:</u>		:	:	-		
:		:	:	:		
===	287		:	:	:	-22-
	- 33	063 3	ď.		:	36,755
		:				20
:	€					208
:	•	:				
:		:				
		:	5.13			
		:	ф: ф:			ight
1.	: :		rs an			Total freight
*fint	imbe	i i	19110			Tota
Sawed lumber.	Square timber	eat.	les, l	Wool		
Sax	Z 7	S >	\ \ \	Wo		1

Table 7 (No. 5). General Statement showing the Quantity of each Article Transported on the St. Lawrence Canals during the Scason of Navigation in 1910.

				<b>S</b>				V., A. 1911
( argo,	U. States.	- FR	2,320	77,289		2 16 16 189 189 189	11,969 1,717 6,232 210 2,860	16, 500
Origin of Cargo.	Canadian, U. States	21,654 1,654	189,211 8,942 157,502	23,969	34,650 6,895 11,743	1,698 21,085 57,843 1,003	141,374 138,992 11,035 11,038 11,038	17,787 168 168 685 261,062
Total Tons.		216 7,823 21,654	1,038 191,531 278,181 476,093	101,258	34,656 6,895 11,743	1,700 21,101 63,963 1,003	153,343 140,709 20,267 365 11,278	37,287 168 168 685 261,062
ns,	Down.	18 6,657 20,131	390,709 268,720 330,145	209,784	35,607 6,612 2,239 36,030 36,030 36,030	1,038 250 12,136 919	35,727 136,229 11,961 11,961 8,829 248	32, 1151 151 150 150 150 150 150 150 150 150
Tons,	Up.	228 1,166 1,523	044 100,822 9,464 145,948		2,013 2,013 6,514 41		117,616 4,480 8,306 2,92 2,449 1,063	4,872 78 78 91 264,062
From United States to Canadian Ports.	Down.		968,718	77,289		:	8,910	090'21
Fr United Can Po	Up.		9,00				\$	
From United States to United States Ports.	Down.							
Unite Unite Pa	Up.							
From Canadian to United States Ports	Down.							
Can Can Unite	Up.			22, 495	32,607 6,612 5,229 3,6	: :	6,859	580
From Sanadian to Sanadian Ports.	Down.	9 8	90,709 90,709 11,554	:왕) · ·			27,517 136,229 7, 112 8,829 248,8	15,255 66,51 19,855 19,65
	Up.	1,163				85		101 101 10292 178 178 178
Articles,		Agricultural implements. All other animal.	Suckwheat Cement, bricks, &c Coal, hard Coke	Corn Corn Dressed meats	Plour Frints and vegetables. Ifay Hides and leather	Household goods Iron, pig and bloom. Iron and steel, all other. Live stock.	7 7 9	" Collection Peas. Peas. Petrolium Pointy, game and fish Potators.

SESSIONAL P	APER
1,800 1,800 1,900 194 68,704	787,311
259,175 26,976 16,742 16,742 10,882 10,882	1.973,411
259,667 545 28,776 16,936 10,902 10,902	2,760,752
208, 432 45, 452 28, 762 1, 538 566, 483 1, 761 1, 761	1,916,733
140 51,235 500 500 115,398 115,943 9,141	844,019
1,800 1,800 26,090 20	776,978
	777
	331
65	22, 235
1,515	286,075
321 185,710 26,962 1,512 1,741 1,741	556,833 1,123,520
140,653 500 14 15,398 15,948 7,626 16	556,833
Rye. Sawed lumber Shingles. Square timber. Sugar and salt. Wheat Wines, liquors and beers.	Total freight

Table 7 (No. 6).—General Statement showing the Quantity of each Through Article Transported on the St. Lawrence Canals during the Season of Navigation in 1910.

Cargo.	United States.	1 GEOR	GE V., A. 19	91
Origin of Cargo.	Canadian.	2,4467 20,000 21,479 21,479 65,701 6,701 22,252 23,252 24,573 24,573 2,252 22,253 24,573 2,252 22,253 24,573 2,253	10, 90 16,526 	
Total Tons.		4,462 20,000 20,000 21,472 258,646 315,035 315,035 47,102 61,222 20,238 30,638 11,190 11,190 11,087 11,087 11,087 11,087 11,087 11,087 11,087 11,087	33,586 33,586 3264,062	
¥.	Down.	20,000 20,000 372 372 308,334 5,000 5,000 5,000 11,000 10,	32,081	
Tons	Up.	20,955 20,995 6590 6,701 10,701 10,342 102,342 102,342 102,342 102,342 102,342 102,342 102,342 102,342 102,342 102,342 102,342	1,505 1,505 264,062	
From United States to Canadian Ports.	Бомп.	257, 996 308, 334 77, 289 6, 126 6, 126 4, 549	17,060	
Fr United Cam	Up.			
From United States to Trited States Ports.	Down.			
Fr United	$\mathbf{t}_{\mathrm{p}}$ .			:
From Canadian to United States Ports.	Боwп.			:
Cans Cans United	Up.	150 257 6,616	580	
From Canadian Canadian Ports.	Down.	20,000 372 372 372 484 56,607 56,607 6,087 6,087 120,809 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15,021	:
From Canadis to Canadis Ports.	Up.	20,995 20,995 630 645 645 875 878 878 878 878 878 878 878 878 87	288 	:
Articles.		Agricultural implements.  All other animal Barley Buckwheat Coment, Iricks, &c Coal, hard  Bressed meats Flax Flax Flax Flax Fruits and vegetables How ping and bloom Iron, ping and bloom Iron, ping and bloom Iron and steel, all other Live stock Merchandise Oats  "woods "woods "woods "woods "yougher.	Peas. Petas. Petas. Petrodeum Poultry, game and fish. Potatoes Pulpwood	Kye.

SESSIONAL	- PAI
1,800 26 8,704 29	753,484
10,847 493,565 9,886 15	1,206,287
10,873 562,269 9,906	1,959,771
	1,488,551
10,055 126 126 8,157	471,220
1,800 26 68,090 20	749,470
1,515	285,839
792 494,059 1,729 5	739,081 285,839
10,055 120 6,642 10	185,381
Shingles Square timber Sugar and salt Wheat Wines, liquors and beers Wool.	Total freight

Table 7 (No. 7)—General Statement showing the Quantity of each Way Article Transported on the St. Lawrence Canals during the Scason of Navigation in 1910.

			2.2							1 0		RGE	EV		A. 1	911
f Cargo.	United States.		2,320	6					4,288		240	2,860		. 5. 5. £		
Origin of Cargo	Canadian.	239 3,358 1,654	8,292 8,292	300	1,667	2382	88. 88.	33,270	977	e,∞ 680,∞	300 8,954	1,451	104	1,261	168	191
Total Tons.		3,361 1,654	170,052 19,538 161,058	300	1,667	2,552	38	S63 33.270	977 22,756	9,622 8,620 8,680	300	4,311	<u> </u>	3,701	168 673	194
ź	<b>Во</b> мп.	2,200 131	90,225 10,724	22,172	88	9866 6	98 6 6	2.205	895	5,232 1,603	8.827	248	154	38.	587	321
Tons.	Up.	221 1,161 1,523	79,827 8,814	300	929	1,855 2,185 2,185 2,185 2,185	6 51 5 5 6	31.065	82 15,274	4,390	252	4,063	:=	3,367	25	140
From United States to Canadian Ports.	Down.		10,722						529			: :	:			
United United Can Po	Up.		350						182		240		:			
From United States to United States Ports.	Бомп.															
Fo United United	Up.								329				:			
From Canadian to United States Ports.	Down.												:			
Fr Cana United PC	Up.								236							
From Canadian to Canadian Ports.	Боwп.	31	90,225	:			38. 38. 98. 98.	ទាំ					154	6.0	587	321
Cam Can Pe	Up.	1,158 1,523		300	16	1,856	င် 	31.065	82	7,077		4,063	- : <del>-</del>	3,367	28. 28.	140
. Articles.		Agricultural implements. All other animal. Barley.	Coment, bricks, &c.	Coke	Dressed meats.	Flour. Fruits and vegetables.	Hides and leather	Iron, pig and bloom.	Live stock. Merchandise.	OatsOther mill products	packing house products	Ore, all other	Poss	Petroleum	Polltry, game and fish.	Pulpwood Rye.

S	ŁS	SI	10	VΑ	L	PAF	'Ε
73		168				33,827	
	26.98 26.98 26.98				<u> </u>	767,154	-
248,603	26.976	6,063	20, 157	9.36	7	800,981	-
207,945	26,962	720	4,334	12	90	428,182	
40,658	200	5,343	15,823	984	9	372,799	-
•			:	:	:	21,508	
:		-	:	:	:	222	
		:			:		l
1.0		:				334	
22,235		:	:	:		22,235	
:		:	:	:		235	
185,710	26,962	729	4,334	200	Y.	384, 139	
+10,653	+	5,343	0,823	138	٥	371,452	-
Sawed lumber.	Square timber	Sugar and salt.	Wheat	wines, inquors and beers	W 001.	Total freight	

Table 7 (No. 8)—General Statement showing the Quantity of each Article Transported on the Chambly Canal during the Season of Navigation in 1910.

				1 GEOF	RGE V., A. 1911
f Cargo.	United States.	5,503 98,916		11,012	24.0
Origin of Cargo.	Canadian.	118 23 241 2412 212	1,117 2,680 18,801	622 229 229 3,047 3,047 522 247 98 1,064	33 152 12 22 22 364,717 130,305
Total Tons.			11,1 1,117 18,801	62 114 843 233 14,059 247 247 98 1,064 1,064	23,547 152 122 22 364,717 130,305
ž.	Down.	5.58 5.518 99,123 357	2,059 7,026	22 3 3 12,020 12,020 1,024 1,044 1,044 1,044	23,547 6 6 10 23
Tons	Up.	22 21 21 201	95 1,083 625 11,775	2, 63 2, 63	25 22 364,717 364,717
From United States to Canadian Ports.	Down.	5,503	112	11,012	23,547
United Can	Up.				
From From United States United States Ports.	Down.				
Fig. United P.C.	Up.				
From Canadian to United States Ports.	Бомп.				
Er Cans t United	Пр.				6 6 10 23 130,245
From Canadian to Canadian Ports.	Down.	2.25.0.00	2,052 7,026	222 1,008 488 1,004 1,044	
Cans Cans Cans Po	Up.	116 2 21 21 201 5	95 1,083 628 11,775	2,039 2,039 2,039 2,039 2,039	25 152 22 22 22 364,717
Articles.		Agricultural implements All other animal. Barley. Buckwheat. Cement, bricks, &c. Coal, hard. I soft.	Corn. Unressed meats. Flax. Flour. Fruits and vegetables. Hay. Hiday.	Household goods. Iron, pig and bloom. Iron and steel, all other. Irves stock. Merchandise. Outs. Other mill products newoods. Noods.	n copper Peas Petroleam Pontry, game and fish Potatoes Pulpwood Rye Sawod lumber

SESSIONAL PAPER No. 20a

1	SE	SS	0	NA	LΡ	A
72.7		:	:		143,599	
ã.	00	699	73		525,700	
33	3	699 101	133		669,299	
				-	155,906	
33		93	53		513,393	
:			:		143,599	
:	:		:			
	:					
•	:		:			
					:	
:					383,148 12,307 130,245	
33		=	:	1	12,307	
	699					
Shingles.	Sugar and salt.	Wheat.	Wool		Lotai freight	

.

Table 7 (No. 9).—General Statement showing the Quantity of each Article Transported on the St. Peter's Canal during the Season of Navigation in 1910.

*		1 GEORGE V., A. 191	1
f Cargo.	United States.		
Origin of Cargo.	Canadian.	21.8.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9.1.9.	cul'e
Total Tons.		12	tal'c
118.	Down.	1	ċ
Tons.	UP.	1	., 14.
From United States to Canadian Ports.	Down.		
Je United Can	(Tp.		
From United States to United States Ports.	Down.		
United United Pa	db.		
From Canadian to United States	Down.		
Can Can (Inite	T.		
From Canadian Caradian Ports.	Down.	4, 913 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	•
Can Fr	Up.	1	46.
Articles,		Agricultural implements.  All other animal Barley.  Buckwheat Gement, bricks, &c. Cool, lard.  Coke Core Dressed meats Friax. Fr	The state of the s

	431	1,142	128 12 140 149 149 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	33,482 52,246 85,951 85,722	
8861	451	1,142	128	33,482	-
Shingles	Square timber.	Sugar and salt	5 Wines, liquors and beers.	Total freight	

1 GEORGE V., A. 1911

Table 7 (No. 10)—General Statement showing the Quantity of each Article Transported on the Murray Canal during the Season of Navigation in 1910.

0818	United States.			7,103				21		: := :	
Origin of Cargo	Canadian.	53.2	149,860	297	23	4,247	121 667 1,412	9,250	1488 1488 1488 1488	261	915
Total Tous.		61 <u>25</u> .	149,860	7,4110	8	7+2+7	121 667 1,412	9,252	252 252 458	372	915
ż	Down.	61 66		7,400	8	2,602	50 667 277	3,738	84	287	18
Tons.	Up.	98	143,860			1,645	71	5,514	118 10 354	885	915
From United States to Canadian Ports.	Down.			7,103							
Fr United t Can: Po	Up.										
From United States to United States Ports.	Down.										
T. Unite Unite P. P.	Up.							: :			
From Canadian to Canadian Ports.	Down.										
Can Can Po	U.p.							: :			555
From Canadian to Canadian Ports.	Down.	63.63		767	<u>।</u> ह	2,602	50 667 2772	3,738	25	282	
Can Can Po	Up.	30	149,860			1,645	71	5,514	118 10 354	855	360
Articles.		Agricultural implements.	Buckwheat Cement, bricks, &c.	Coal, Bard.	Corn Dressed meats.	Flax Flour Fruit and vegetables.	Hides and leather. Household goods. Iron, pig and bloom. Iron and steel, all other.	Live stock. Merchandise	Oats.  Other mill products  packing liouse products.  woods. Ore, all other.	Peas Petroleum Petroleum Poultry, game and fish	Potatoes Pulpwood Rye Sawed lumber.

	500	232 45	20	543	5		170,680 7,261	_
	68	1-1-1	20	543	ĵ.		177,941	_
	S	53		415	ಬ		15,649	-
	\$	7777	25	128	:		162,292	-
:	:		:	:	:		7,103	
:		:		:	:			
	:	:	:	:	:			
:	:				:		:	
:	:	:			:			
•	:						555	
: 3	10		7			2 4 6	8,546	
:	666		198	1		TOW 1.71		
Slingles.	Sugar and salt.	Wheat	to Wines, liquors and beers.	Nool.	7-	Motol for talk	F 1 Ocal ireigne.	

Table 7 (No. 11).—General Statement showing the Quantity of each Article Transported on the Ottawa Canals during the Season of Navigation in 1910.

		1 GEORGE V., A. 1911
Cargo.	United States.	2, 67.3 913
Origin of Cargo.	Canadian.	2, 22.5 19, 22.5 19, 24.9 2, 24.4 3, 24.6 11, 23.3 11, 23
Fotal tons.		2, 255 2, 284 2, 284 2, 284 3, 284 11, 108 3, 284 11, 108 11, 284 11,
Tons.	Down.	12. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13
Ě	Up.	181 1,384 4,006 2,006 1008 101 101 101 101 101 101 10
From U. States to Canadian Ports,	Down.	
From Canadian From U. States From U. States to	Up.	3, 8, 8, 8, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
From U. States to U. States Ports.	Down.	
From U. State	Up.	
From Canadian to T. States Ports.	Down.	
From C	Up.	
From Canadian to Canadian Ports.	Down.	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
From C	Up.	28.8
Artigles.		Agricultural implements All other annual. Barloy Buckwheat Cement, bricks, &c Coal, hard " " soft Core Dressed moats Flax Flax Hades and leather Household goods Iron pig and bloon. Live stock Merchandise Other mill products " woods " woods " woods " woods " prefing house products." " products." " products." " prefing house products." " prefing house products." " Preficient." " Poblatives." " Potatoes." " Polykood." " Polykood." " Polykood." " Polykood." " Polykood." " Polykood."

			1 07
: :			7,993
21:3 %	: 23 5	99 :	1 000
223, 202 65 1 633	-1 <del>-1</del>	<i>(</i> 5.	377,268
ଚା			60
27.12.2	3 22 53	996	1 15
223, 202 65 1 633	4,332	<u> </u>	385,261
쥥		:	88
20.5		.=	1 23
222,743 45 1 (31	,		327,532
81			32
2000	1 00 00	955	18
edit out	4,268	65	57,729
			100
			99
			7,306
	: :		
: :	: :		:
::			1:
	: :		
::			<u>  :</u>
60,681	: : :		51,013
9 :			61,
<del></del>	: :	• • •	1 :
: :	: : :		
	: :		
162,062 45	£ 5	Ξ	519
162	1		266,519
459 20 20	1,268	955	187
T	77	Ų.	49,923
			<u> </u>
	:		
		EL .	eigh
		်ညီ : ကြ	l fr
		an	Total freight
nber 	salt	nor	I
lun es	and	Ji.	
Sawed lumber.	Sugar and salt	Wines, liquors and beers	
Sh	Sugar	33	

Table 7 (No. 12).—General Statement showing the Quantity of each Article Transported on the Rideau Canal during the Season of Navigation in 1910.

		1 GEORGE V., A. 1911
f Cargo.	United States.	3, 9, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
Origin of Cargo.	Canadian.	1, 462 (6) 339 (7) 460 (8) 339 (8) 400 (8) 400
Total Tons.		7, 667 1, 246 1, 246 1, 214 2, 246 2, 346 2, 346 3, 346
<u>v.</u>	Down.	31, 235, 452, 538, 5415,
Tons.	Up.	285 281 291 277 287 287 385 381 381 132 221 1,025 1,026 6,599 6,599 6,599 6,599 6,599 6,598 88 88 88 88 88 88 88 88 88 88 88 88 8
From United States to Canadian Ports.	Down.	20.00 20.00
Fr United Cana Po	Up.	100 100 100 100 100 100 100 100 100 100
From United States to United States Ports.	Down.	
Fr United United Po	Up.	
From Canadian to United States Ports.	Down.	()_88'.c
From Canadia to United St. Ports.	Up.	
From Canadian to Canadian Ports.	Down.	1, 1, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
From Canadian to Canadian Ports.	Up.	285 281 271 291 381 381 381 381 381 381 381 381 381 38
Articles.		Agricultural implements All other animal Barley Buckwheat Goemen, brisks, &c Cond, hard Con, soft Con, Dressed meats Flux Flux Flux Flux Flux Flux Flux Flux

:		:		:		13,838
110[	880	3,636	642	692	:	121,043
110	2882	3,636	642	269		134,881
14	111	539	625	123	:	75,368
96	229	3,097	17	574	. 1	59,513
:		:	:	:	:	12,280
	:	:	:	:	:	1,460
			:		:	
:	:	:	:	:	:	
:	:	:	:	:		5,870
	:	:	:	:		₹
11					:	57,218
96					<b>-</b>	58,049
Shingles	Square timber	Sugar and salt	Wheat	Wines, liquors and beer	VV 001	Total freight

Table 7 (No. 13).—General Statement showing the Quantity of each Article transported on the Trent Valley Canals during the Season of Navigation in 1910.

	Cargo.	United States.					
	Origin of Cargo.	Janadian.	71 151 . 6 . 6 .	7,396.	01	98	25 25 25 25 25 25 25 25 25 25 25 25 25 2
-	Total Tons.		12.0	7,396 92 183 183	21-4	<del>2</del>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	ž	Down.	50 50 50 br>50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5	270	÷1 ←	<u> </u>	21 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Tons.	Up.	25 8 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7,126		<u> </u>	202 202 203 2043 166 167 170 181 181 191 100 100 100 100 100 100 100 100 10
From	to Canadian Ports.	Down.				:	
-		LT p.				:	
From	From United States to United States Ports.	Down.				:	
		. Up.					
From	Canadian to United States Ports.	Down					
		Up.	553	270	201-	43	22.1 2 46 33.2 3 0 9 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
From	Canadian to Canadian Ports.	Down.	28.29				
	బ్ బ్ ——————————————————————————————————	Up.		7,126			iá :
	.Articles.		Agricultural Implements All other animal Barley.		Coke Com Pressed meats Flax		m other other less products.

1,782,	189,	543	11			· · · · · · · · · · · · · · · · · · ·	46,263
1,782	189	543	H	627 828	Si "	7	46,263
1,062	138	517	:	:	-j	1	30,598
720	19	56	11	527	<u>6</u> ]	:	15,665
]	:	:	:	:	:	:	
	:	:	:	:	:		
	:		:	:	:	:	
	:	:	:	:	:	:	
1.062	138	517	:	:	ं चा	:	30,598
1087			11			:	15,665
Sawed lumber	Shingles	Square timber	Sugar and salt	Wheat	Wines, liquors and beers	Wool	Total freight

Table 7 (No. 14.)—General Statement showing the Quantity of each Article Transported on the St. Andrews Canal during the Season of Navigation in 1910.

		I GEO	NGE V	7., A. 19
· Cargo.	United States.			
Origin of Cargo.	Canadian.	8 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,407	
Total		2 55 55 55 55 55 55 55 55 55 55 55 55 55	1,407	
ż	Down.	e ± - 5		
Tons.	Up.	125	1,407	
From United States to Canadian Ports.	Down.			
Fron United S to Canadi Ports	Up.			
From United States to United States Ports.	Down,			
Fr United United PC	Up.			
From Canadian to United States Ports.	Down.			
Fr Cans t United	Up.			
From Canadian to Canadian Ports.	Down.			
Fr Can: Can	ď.	75.	1,407	
Articles,		Agricultural implements.  All other animals Barley Buckwheat Combent, brick, &c. Coul, hard Con, Dressed meats Flour Flo	Precently from the produces of the produces of the produce of the	Peas. Petroleum. Poultry, game and fish

_		_			•	-	•			
:	:	:				:	:		:	:
	:	:	:	:	:		:	:	:	i i
	:	:	:	:	:	:	:	:	:	:
-		-:	:	:		:	:			:
	6,228		317	:	:	:	:	Ψ	:	8,233
:	6,	:		:	:	٠			:	တ်
:		:		:	:	:	:		:	
:		:		:	:	:	:		:	]
	6,228	:	317	:				9		8,283
:	2		CL3	:	:	:	:		:	တ်
:		:			:	:	:		:	}
:		:		:	:	:	:		:	
	-	:	:	:		:	:	9	:	131
:	- :	:				:			:	
:	-	:	i	:	i	:	:		:	
:	:		÷	:	:	:	:		:	
-	00	•	÷				÷		÷	ପ୍ର
	6,228		317	:	:	:	:	:	:	8,152
	9	:		:		:	:	:		00
				:	:	:	:	:	:	
-		:								1 •
:	:		:	:	:		•	:	:	:
:	:			:	:	:	:	:		
		•	317					:		
	:	:	:	:	:	:		:	:	
:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	
-	÷	•	-	•	÷	•	•	÷	÷	•
:	:	:	:	:		:	:	:		
:	:	:	:	:	:	:	:	:	:	
-		•	:	:		:	-	:	-	
:	:	:	:	:	:	:	:	:	:	
:	:	:	:	:	:	:	:	:	:	
:	:	:	:			:		:	:	
:		:	:			:	:		:	:
	:	:	÷	:	:	1	:	:	:	:
:	:	:	:		:	:	:	:	:	
:	•	•	÷	•	·	•		÷	•	•
	:	:	:	:	:	:	:	:	:	
:	:	:	:	:	÷	:		:	:	
			:			:		:	:	
:	:		:	:	:	:		9	:	131
:			٠			:	:		:	1 1
:	:		:	:	:	:	:		:	
*	[6,228]	• !	-		:	:	:	:	:	22
:	67		20		:	:	:	:	:	8,152
:	_	:		:	:	:	:	:	:	0.0
•			-	•		•		•		
:	:		:		:			:	:	Total freight
:		*	:	:	:			:	:	
:	:		:		:	:		:	:	:
:	:				:	:	:		:	:
	:	:	:		:	:	:	:	:	
:		٠		;	:	:	•	er	:	
:		:	:	:	:	:	:-	DE	:	ght
:	:	:	:	:	:	:	:	nu		reig
:	:	:			er.		:	90	:	f f
:	•	:.	pe	:-	011	83.	:	1101	:	ota.
200	, D	:	n n	E	= -	DC	:	119	:	T
oes	WOO	:	, d	, le	re	E ,	200	689	:	
Potatoes	Pulpwood.	uye	Sawed lumber	Shingles.	square 11mber	Sugar and sair.	W near	Wines, inquors and beer	VV 0001	
20	Pu	2	33	2	200	11:	1	2	>	
-										

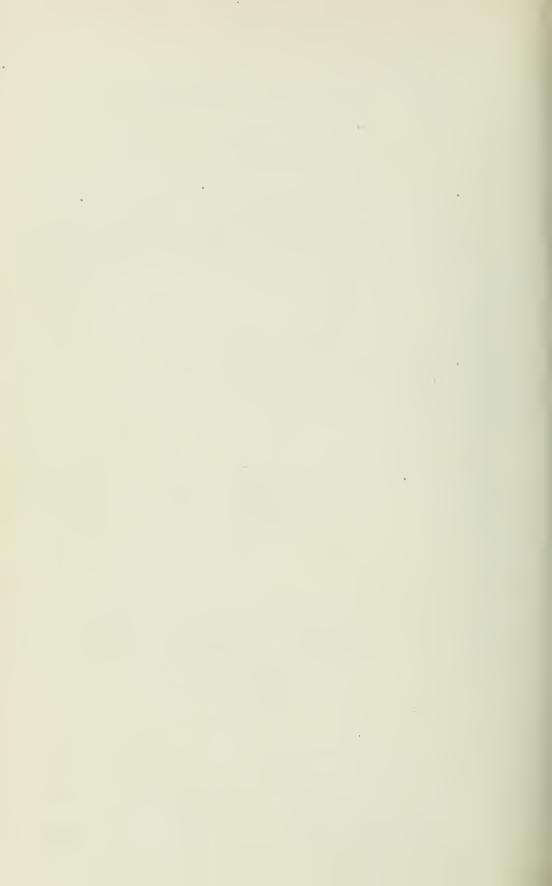
 $\begin{tabular}{ll} Table 8. — Statement showing the Classified Tonnage of all kinds of Vessels \\ SAULT STE. \end{tabular}$ 

			Canadian.			
Fonnage.	Vessels. No.	Sailing	Tonnage. Class.	No.	ss. Steam Vessels.	Class.
	tons	4,000 ii 5,000 3,000 ii 4,000 2,000 ii 3,000 1,000 ii 2,000	$egin{array}{c c} 4,500 & 2 \\ 7,000 & 3 \\ 18,500 & 4 \\ 80,500 & 5 \\ \end{array}$	1 1 2 8 64 50	2 4,000 ii 5,000 ii 3,000 ii 4,000 ii 4,000 ii 4,000 ii 5,000 ii 3,000 ii 1,000 ii 2,000 ii 1,000 ii 2,000 ii	1 2 3 4 5 6
7,070	26	Under 1,000 Total	$\frac{12,090}{127,732} \qquad \qquad 6$	126	Total	O
ELLAND	W			,	<del></del>	
7,720 625 365 1,060 205 15	,	250 to 1,226 to 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Uuder 50 "	72,766 1 1 625 2 320 3 370 4 380 5 634 6	65 3 2 3 5 24	2 200 " 249 " 3 150 " 199 " 4 100 " 149 " 5 50 " 99 " Under 50 "	1 2 3 4 5 6
9,990	28	Total	75,095	104	Total,	
FRENCE	ST. LA					
		250 to 1,000 to	69,492 $1$ $2$ $2$	74 4	2 200 249	1 2 3
51,965 1,620 12,036 10,340 3,266 608 79,823	8 75 92 42 17 — — — — — — — — — — — — — — — — — — —	200 ii 249 ii 150 ii 199 ii 100 ii 149 ii 50 ii 99 ii	$\begin{array}{cccc} 2,400 & 3 \\ 1,810 & 4 \\ 3,885 & 5 \\ 1,485 & 6 \end{array}$ $\begin{array}{cccc} 79,892 & & & & & \\ \end{array}$	14 15 56 79 242	1 100 " 149 "	4 5 6
1,620 12,030 10,340 3,260 608 79,823	8 75 92 42 17	200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	$\begin{array}{ccc} 2,400 & 3 \\ 1,810 & 4 \\ 3,885 & 5 \\ 1,485 & 6 \end{array}$	15 56 79	4 100 " 149 "	4 5
1,620 12,030 10,340 3,260 608 79,823	RIDEAU,  18   17   18   17   18   17   19   19   19   19   19   19   19	200 " 249 " 150 " 199 " 190 " 199 " 100 " 149 " 150 " 99 " Under 50 " Total	$\begin{array}{ccc} 2,400 & 3 \\ 1,810 & 4 \\ 3,885 & 5 \\ 1,485 & 6 \end{array}$	15 56 79	1 100 " 149 " 5 50 " 99 " 6 Under 50 "  Total  1 250 to 492 tons 2 200 " 249 " 3 150 " 199 " 4 100 " 149 "	4 5

passed through the following during the Season of Navigation in 1910.

# MARIE CANAL.

			UNITED	STATES	š.		
Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1 2 3 4 5 6	5,000 to 6,498 tons 4,000 n 5,000 n 3,000 n 4,000 n 2,009 n 3,000 n 1,000 n 2,000 n Under 1,000 n	104 65 138 56 54 93	546,000 275,000 452,500 120,000 75,500 112,750 1,581,750	1 2 3 4 5 6	5,000 to — tons	3 13 10 7 24 57	12,500 40,500 21,000 9,000 10,950
CANA	AL.						
1 2 3 4 5 6	250 to 1,691 tons 200 " 249 " " " " " " " " " " " " " " " " " " "	33  1 9 24 67	39,916 100 630 335 40,981	1 2 3 4 5 6	250 to 1,599 tons	$ \begin{array}{c} 3 \\ 1 \\ \dots \\ \frac{1}{4} \\ -9 \end{array} $	75 71
CANA	۸L.						
1 2 3 4 5 6	250 to 1,552 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	24 	21,331 340 590 460 395 23,116	1 2 3 4 5 6	250 to 1,590 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	16 1 45 75	9,968 200 4,670 6,925 21,763
AND	CHAMBLY CANALS.						
1 2 3 4 5 6	250 to — tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "			1 2 3 4 5 6	250 to 250 tons 200 " 249 " 150 " 199 " 100 " 149 " 50 " 99 " Under 50 "	$ \begin{array}{c} 1 \\ 1 \\ 11 \\ 382 \\ 254 \\ \dots \\ \hline 649 \end{array} $	23,905



# APPENDIX

# DOMINION CANALS

The canal systems of the Dominion, under government control in connection with lakes and navigable rivers, are as follows:—

First—The through route between Montreal and the head of Lake Superior (14 feet minimum depth of water.)

	Miles.
1. Lachine canal	$8\frac{1}{2}$
Lake St. Louis and River St. Lawrence	16
2. Soulanges canal	14
Lake St. Francis and River St. Lawrence	33
3. Cornwall canal	11
River St. Lawrence	5
4. Farran's Point canal	$1\frac{1}{2}$
River St. Lawrence	10
5. Rapide Plat canal	33
River St. Lawrence	4
6. Galops canal	$7\frac{1}{3}$
River St. Lawrence and Lake Ontario	236
7. Welland canal	$26\frac{3}{4}$
Lake Erie, Detroit river, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie canal	11
Lake Superior to Port Arthur	266
(D ) 3	
Total	$1,2231\%_{24}$
(T) (D) (1)	
To Duluth	1,357
Chicago	1,286
=	

Second.—Ottawa to Lake Champlain.

1. Grenville. 2. Carillon. 3. St. Anne's. 4. Chambly. 5. St. Ours canals.

Third.—Ottawa to Kingston and Perth.

1. Rideau canal.

Fourth.-Lake Ontario at Trenton to Lake Huron at mouth of River Severn.

1. Trent canal (not completed).

Fifth.—Ocean to Bras d'Or lakes.

1. St. Peter's canal.

#### 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 2,200 statute miles. The distance to Duluth is 2,343 statute miles. The distance to Chicago, 2,272 miles.

From the Straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal, the distance is 986 miles. From Quebec to Montreal, the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, 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 277 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, which in 1888, under the provisions of the Act 51 Vic., ch. 5, of that year, assumed the indebtcdness. The channel has a minimum width of 300 feet, extending to 550 feet at points of curvature. The channel is lighted and buoyed.

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 St. Lawrence canals, 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, Soulanges, Cornwall, Farran's Point, Rapide Plat, Galops, Murray, Welland and Sault Ste. Marie. Their aggregate length is 73 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 occan navigation, to the head of Lake Superior is 48. The Soulanges canal takes the place of the Beauharnois canal; the latter may be abandoned for navigation purposes.

Communication between Lakes Huron and Superior is obtained by means of the Canadian Sault Stc. 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.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length, 270 feet; width, 45 feet; depth of water on sills, 14 feet. The length of the vessels to be accommodated is limited to 255 feet. At Farran's, in the canal of that name, the lock is 800 feet long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

#### LACHINE CANAL.

First construction	commenced	<b>1</b> 821
u	completed	1825
First enlargement	commenced	1843
"	completed	1848
Second enlargement	commenced	1873
16	completed	1901
Length of canal		81 statute miles.
Number of locks		5
Dimensions of lock	s	270 feet by 45 feet.
	ge	45 feet.
Depth of water lat	two locks	18 "
	three locks	14 "
	ew canal	150 "

The old lift locks, 200 feet by 45 feet, are still available, with 9 feet of water on mitre sills.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end.

The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of the series of rapids which bars the ascent of the River St. Lawrence. They are 986 miles distant from the Straits of Belle Isle.

#### SOULANGES CANAL.

1892
1899
14 statute miles.
4 1
1
280 feet by 45 feet.
S4 feet
15 "
100 "
164 "
219 of 2,000 c. p. each.

The canal extends from Cascade point to Coteau Landing, overcoming the Cascade Rapids, Cedar rapids and Coteau rapids.

From the head of the Lachine to the foot of the Soulanges, the distance is sixteen miles.

#### CORNWALL CANAL.

First commenced, 9 fcet	1844
" opened	1847
Enlargement commenced	1897
" completed	1900
Length of canal	11 statute miles.
Number of locks	6
Dimensions of locks	270 feet by 75 feet.
Total rise of lockage	48 feet.
Depth of water on sills	14 "
Breadth of canal at bottom	100 "
Breadth of canal at water surface	164 "

The old lift locks, 200 feet by 45 feet, are also available, with nine feet of water on mitre sills.

From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis, of 323 miles, which is being made navigable for vessels drawing fourteen feet.

The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickinson's landing.

#### WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat and Galops canals are collectively known as the Williamsburg Canals,

#### FARRAN'S POINT CANAL.

First commenced, 9 feet	
Enlargement commenced	
" completed 19	
Length of canal	
Number of locks	
New lock	eet
Old lock	
Total rise or lockages	
Depth of water on sills of new lock 14 "	
Depth of water on sills of old lock 9 "	
Breadth of canal at bottom 90 "	
Breadth of canal at water surface 154 "	

From the head of the Cornwall canal to the foot of Farran's Point canal, the distance on the River St. Lawrence is five miles. The latter canal enables vessels ascending the river to avoid Farran's Point rapid, passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

#### RAPIDE PLAT CANAL.

First commenced. 9 feet	1844
" opened	1847
Enlargement commenced	1884
" completed	1897
Length of canal	
Number of locks 2	
Dimensions of locks	5 feet.
Total rise in lockage	
Depth of water on sills	
Breadth of canal at bottom 80 "	
Breadth of canal at surface of water 152 "	

The old lift lock, 200 feet by 45, is also available, with nine feet of water on mitre sills.

From the head of Farran's Point canal to the foot of Rapide Plat canal, there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

#### GALOPS CANAL.

First commenced, 9 feet	1844 °
Opened	1846
Enlargement commenced	1888
" completed	1903
Length of canal	73 miles.
Number of locks	3
Dimensions of locks. one of which is a guard lock.	2-270 by 45.
Total -in Class ( a guard lock, )	1-800 by 45.
- The same of lockage.	15½ feet.
Depth of water on sills	14 "
Breadth of canal at bottom.	80 "
Breadth of canal at surface of water	144 "

From the head of Rapide Plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. The canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

# MURRAY CANAL.

Construction begun	1882
Completed	1890
Length between eastern and western pier heads	1000
Breadth at bottom.	5½ miles.
Breadth at water and	80 feet.
Breadth at water surface.	120
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 Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation.

#### WELLAND CANAL

Main line from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie.

Length of Canal	Enlarged or New Line. 26% miles 2 25
Dimensions. $ \left\{ \begin{array}{c} 1 \text{ lock } 200 \text{ x } 45 \\ 1 \text{ lock } 200 \text{ x } 45 \\ 1 \text{ (tidal) } 230 \text{ x } 45 \\ 24 \text{ locks } 150 \text{ x } 45 \end{array} \right\} $ Total rise or lockage $ \dots 3263 \text{ feet} $	270 feet x 45 feet.  3263 feet.
Depth of water on sills $10\frac{1}{4}$ "Construction commenced, 10 feet 3 inches. "Completed  Enlargement commenced, 14 fcet. "completed $20a-7\frac{1}{2}$	1833 1872

#### WELLAND RIVER BRANCHES.

	Length of canal—				
	Port Rohinson cut to River Welland	2,622	feet.		
	From the canal at Welland to the river, via	_,			
	lock at Aqueduct	300	* 6		
		1,020	u		
	Number of locks—one at Aqueduet and one at Port				
	Robinson	2			
	Dimensions of locks	150	by 26½ feet.		
	Total lockage from the canal at Welland down to				
	River Welland	10	feet.		
	Depth of water on sills	9	feet 10 inches.		
	GRAND RIVER FEEDER.				
	Length of canal	21	miles.		
	Number of loeks	2			
		(	1 of 150 by 264 feet.		
	Dimensions of locks		1 of 200 by 45 feet.		
	Total rise or lockage	14	to 8 feet.		
	Depth of water on sills	9	feet.		
PORT WELLAND BRANCH.					
	Length of canal	13 mi	les		
	Number of locks				
			et by 45 feet.		
		7½ fee			
		11 "			

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 Allanburg, 113 miles, there are two distinct lines of eanal in operation, the old line and the enlarged or new line.

From Allanburg to Port Colborne, a distance of 15 miles, there is only one chan-

nel, the old canal having heen enlarged.

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 the Sault canal, a distance of about 580 miles. From the Sault the distance through Lake Superior to Port Arthur is 266 miles, and to Duluth 400 miles.

#### SAULT STE. MARIE CANAL.

Construction commenced	1888
Opened for traffie	1895
Length of eanal, between the extreme ends of the	
entrance piers	5,967 feet.
Number of locks	1
Dimensions of locks	900 feet by 60 feet.
Depth of water on sills (at lowest known water	
level)	
Total rise or lockage	18 feet.
Breadth of eanal at hottom	
Breadth at surface of water	150 feet.

This canal has been constructed through St. Mary's island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior. The masonry pier of the bridge carrying the Canadian Pacific Railway over the canal, which stood in the channel of the canal, forming an obstruction to navigation, has been removed; the swing now spanning the full width of the channel or prism of the canal.

#### MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine canal, the navigation section of the lower River Ottawa, and the Ottawa canals, to the city of Ottawa; thence by the River Rideau and the Rideau canal to Kingston, on Lake Ontario—a total distance of 245 miles.

After leaving the Lachine canal the works constructed to overcome difficulties of navigation are:—

# Ottawa River Canals.

The Ste. Anne's lock. Carillon canal.

Grenville canal.

The total lockage (not including that of the Lachine canal) is 509 feet (345 rise, 164 fall)—and the number of locks is 55.

The following table exhibits the intermediate distances from Montreal harbour:-

Sections of Navigation.	Intermediate Distance.	Total Distance, from Montreal.
The Lachine canal. From Lachine to Ste. Anne's lock Ste. Anne's lock and piers Ste. Anne's lock to Carillon canal. The Carillon canal. The Carillon to Grenville canal. The Grenville canal. From the Grenville canal to entrance of Rideau navigation Rideau navigation ending at Kingston.	Miles. $\frac{8\frac{1}{2}}{15}$ $\frac{15}{27}$ $\frac{3}{6\frac{4}{14}}$ $\frac{3}{5\frac{3}{4}}$ $\frac{3}{56}$ $\frac{3}{126\frac{1}{4}}$	Miles.  23 23 50 51 57 63 119 245

#### STE. ANNE'S LOCK.

Construction commenced	
" completed	1816
Rebuilt of wood	1833
" in masonry	1843.
Old Look.	New Lock.
Length of canal å mile.	⅓ mile.
Number of locks 1	1
Dimensions of locks 190 x 45 feet.	200 x 45 feet.
Total rise or lockage 3 feet.	3 feet.
Depth of water on sills 6 "	9 "

This work, with guide piers above and below, surmounts the Ste. Anne's rapids between Ile Perrot and the head of the Island of Montreal, at the outlet of that portion of the River Ottawa which forms the Lake of Two Mountains, 23½ miles from Montreal harbour.

#### THE CARILLON CANAL.

Construction	commenced	819		
"	completed	333		
Enlargement		371		
"	completed	387		
	nal	3 n	ille.	
	ocks	2		
Dimensions of	of locks 2	200 x	45	feet.
Total rise or	lockage	16 fe	eet.	
	ter on sills	9	66	
Breadth of ca	anal at bottom	100	66	
Breadth of ca	anal at water surface	110	66	
This canal overco	omes the Carillon rapids.			

From Ste. Anne's lock to the foot of the Carillon canal there is navigable stretch of 27 miles, through the Lake of Two Mountains and the River Ottawa.

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.

#### GRENVILLE CANAL.

Construction commenced	1819
" completed	1833
Enlargement commenced	1871
" completed	1887
Length of canal	$5\frac{3}{4}$ miles.
Number of locks	5
Dimensions of locks	200 x 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, up to which point the River Ottawa affords unimpeded navigation.

#### RIDEAU NAVIGATION.

Construction	commenced.						,		۰			1826
"	completed	 										1832

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	126¼ miles.
Number of locks going from Ottawa to Kingston.	35 ascending.
	a a descending.
Total lockage446½ feet $\begin{cases} 2821 \text{ rise and} \\ 164 \text{ fall} \end{cases}$	at high water.
Dimensions of locks	
Depth of water on sills	5 feet.
Navigation depth through the several reaches	4½ "
T) 1/1 ( 1 1 / 1 / 1	60 feet in earth.
Breadth of canal reaches at bottom	54 feet in rock.
Breadth of canal at surface of water	80 feet in earth.

#### PERTH BRANCH.

Construction commenced	1883		
" completed	1892		
Length of canal	7	miles.	
Number of locks	2		
Dimensions of loeks	134	feet x	33 feet.
Total rise or loekage	26	66	
Depth of water on sills	5	٠٠ (	inches.
Length of dam	200	"	
Breadth of eanal at bottom	40	66	
Decodth of sound at aurefore of motor	40	66	in roek.
Breadth of canal at surface of water	60	66	in clay.

The Perth branch of the Rideau canal affords communication between Beveridge's bay, on Lake Rideau and the town of Perth.

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 southwest descending level to Kingston, supplied by the Mud lake system formerly known as the Devil lake system, discharging into Lako 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.

#### RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the Rivers St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours lock to the basin of Chambly; thence, by the Chambly canal, to St. Johns, and up the River Richelieu to Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached.

From the boundary line to New York the distance is 330 miles.

The following table shows the distances between Sorel and New York:-

Section of Navigation.	Intermediate Distance.	Total Distances.
	Miles.	Miles.
Sorel to St. Ours lock. St. Ours lock to Chambly canal.	14	14
St. Ours lock to Chambly canal	32 12	46 58
Chambly canal to boundary line	23	81
Boundary line to Champlain canal.  Champlain canal to junction with Erie canal.	111 66	192 258
Erie canal, from junction to Albany.	7	265
Albany to New York	146	411

#### ST. OURS LOCK DAM.

Construction commenced	1844
" completed	1849
Length	$\frac{1}{8}$ mile.
Number of locks	1
Dimensions of lock	200 feet by 45 feet.
Total rise of lockage	5 "
Depth of water on sills	7 feet at low water.
Length of dam in eastern channel	300 "
Length of dam in 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.

### CHAMBLY CANAL.

Construction commenced	1831 1843
Length of canal	12 miles.
Number of locks	
Dimensions of locks:—	
Guard lock, No. 1 at St. Johns	122 feet.)
Lift " 2	124 "   From $22\frac{1}{2}$ to
" 3, 4, 5, 6	118 " [24 feet wide.
" " 7, 8, 9 combined	125 " )
Total rise or lockage	74 "
Depth of water on sills	7 "
Breadth of canal at bottom	36 "
Breadth of canal at 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.

#### TRENT CANAL.

The term 'Trent canal' is applied to a series of water stretches, which do not, however, form a connected system of navigation, and which, in their present condition, are efficient only for local use. By various works this local use has been extended, and by others, now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Trent, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course, as originally contemplated and modified, is as follows:-

Through the River Trent, Rice lake, the River Otonabee and Lakes Clear, Stony, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe; thence by the River Severn to Georgian bay, Lake Huron; the total distance being about 200 miles, of which only about 15 or 20 miles will be actual canal.

The full execution of the scheme, commenced by the Imperial Government in 1837, was deferred. By certain works, however, below specified, sections of these

waters have been made practicable for navigation, and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon lake south, affords communication with the town of Lindsay, and, through Lake Scugog to Port Perry, a distance of 190 miles from Trenton.

The following table gives the distance of navigable and unnavigable reaches:-

From	Trenton, Bay of Quinté to Nine Mile rapids  Nine Mile rapids to Percy landing  Percy landing to Heeley's Falls dam  Heeley's Falls dam to Peterborough  Peterborough to Lakefield  Lakefield to a point across Balsam lake	$ \begin{array}{r}     \\     19\frac{1}{2} \\     \\     51\frac{3}{4} \\     \\     61 \end{array} $	9 14½ - 9½ -
	and the second s	1321	33

The works by which the Trent navigation has been improved comprise canals, with locks and bridges, at Young's point, Burleigh rapids, Lovesick, Buckhorn rapids, Bobcaygeon, Fenelon falls and Rosedale; also dams at Lakefield, Young's point, Burleigh falls, Lovesick, Buckhorn, Bobcaygeon and Fenelon falls. By these works there is afforded communication between Lakefield, 9½ miles from Peterborough, and Balsam lake, the headwaters of the system; opening up a total of about 160 miles of direct and lateral navigation.

At Lakefield, 9½ miles from Peterborough, the dam at the head of the Nine Mile rapids of the River Otonabee maintains navigation on Lake Katchewannoe up to Young's point.

At Young's point, 5 miles from Lakefield, the dam between Lake Katchemannoe and Clear lake controls the water level through Clear and Stony lakes up to the foot of the Burleigh canal.

At Burleigh rapids, 10 miles from Young's point, a canal, about 2½ miles in length, passes the Burleigh and Lovesick rapids, and gives communication between Stony lake and Deer bay.

At Buckhorn rapids, 7 miles from Burleigh rapids, there is a canal about one-fourth of a mile long.

At Bobcaygeon, 153 miles from Buckhorn rapids, a dam, 553 feet long, controls the water level 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' x 30' x 4' 6' to 6' 6" depth water on mitre sill.

- 6	2 Locks at	Fenelon	134' x 33' x 5' 0" to	7'6"	depth water on	mitre sill.
]	L "	Lindsay	134′ x 33′ x 5′ 0′′ to	7'6"	- 4	66
]	L "	Bobcaygeon	134' x 33' x 5' 8" to	7' 0"	ll l	"
1	۰٬	Buckhorn	134' x 33' x 5' 0" to	9'0"	"	"
1	L "	Lovesick	134′ x 33′ x 5′ 0″ to	9'4''	"	46
9	2 "	Burleigh	134' x 33' x 6' 0" to	8' 0"	44	66
1	ł "·	Young's point.	134' x 33' x 5' 0" to 1	14' 0"	46	"
1	L "	Peterborough .	134' x 33' x 5' 0" to 3	10′ 0′′	"	46
1	L "	Hastings	134' x 33' x 7' 0" to 1	10′ 6′′	"	"
7	1 "	Chisholms	$134' \times 33' \times 5' 0''$ to	8' 6"	"	

### ST. PETER'S CANAL, CAPE BRETON.

Construction commenced	
" completed	
Enlargement begun	
" completed	
Length of canal	About 2,400 feet.
Breadth at water line	50 feet.
Lock	One tidal lock, 4 pairs of gates.
Dimensions	200 feet by 48 feet.
Depth of water on sills	18 feet at lowest water.
Depth through canal	19 "
Extreme rise and fall of tide in St.	
Peter's bay	4 "

This canal connects St. Peter's bay on the northern 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.

#### BEAUHARNOIS CANAL.

Construction begun	
" completed	
Length of canal	
Number of locks 9	
Dimensions of locks	et.
Total rise or lockage	
Depth of water on sills 9 "	
Breadth of canal at bottom 80 "	
Breadth of canal at water surface 120 "	

As the new Soulanges canal is now opened for navigation, the Beauharnois canal is abandoned for navigation purposes.

#### EARLIER CANALS.

A system of three canals preceded the Bearharnois. These were:

#### COTEAU DU LAC CANAL.

Construction	commenced			 				 	 1779
"	completed			 				 	 1780

#### SPLIT ROCK CANAL.

Construction	commenced.									 	1779
66	completed									 	1780

#### CASCADE POINT CANAL.

Construction	commenced.	 ٠								 1782
"	completed					 				1783

The locks were 20 x 6 fect, and provided for a draft of 2 feet. In 1814 the work of widening them to 12 feet was begun, and finished in 1817.

Two canals were also constructed off Burlington Bay, Ontario. They were:-

#### BURLINGTON BAY CANAL.

commenced	
DESJARDINS CANAL.	
commenced	1826

Neither of these canals required locks. They have for many years been abandoned. The depth of water provided in the first instance was 7½ feet.

#### ST. LAWRENCE NAVIGATION—TABLE OF DISTANCES.

FROM STRAITS OF BELLE-ILE TO PORT ARTHUR, AT HEAD OF LAKE SUPERIOR BY WATER.

		Miles.
Straits of Belle-Ile Cape Whittle Gulf of St. Lawre West Point, Anticosti. River St Lawre Father Point. Rimouski Bic. Isle Verte (opp. Saguenay). Quebec. Three Rivers Montreal Lachine Cascade Point Cascade Point Cascade Point Coteau Lauding. Cornwall Lacke St. Louis. Cornwall Landing. Cornwall Lawe St. Louis. Cornwall Landing. Cornwall Lawe St. Louis. Cornwall Dickinson's Landing Farran's Point. River St. Lawre Farran Point. Upper end of Croyle's Island Williamsburg Rapide Plat Point Iroquois Village Upper and Presqu'lle Point Iroquois Village Point Cardinal, Edwardsburg Point Cardinal Head of Galops Rapids Prescott. Kingston Port Colborne Welland Canal Canal Canal Canal Cake Ontario. Welland Canal Port Colborne Lake Ontario. Welland Canal Port Colborne Lake Crie Verland Canal Calops Canal Canal Calops Canal Canal Calops Canal Canal Calops Canal Calops Canal Calops Canal Calops Canal Canal Calops Calops Canal Calops Calops Canal Calops Calops Canal Calops Calops Calops Calops Canal Calops Calops Calops Calops Canal Calops		
Cape Whittle. West Point, Anticosti River St. Lawre Father Point. Rimouski.  Bic. Rimouski. Bic. Isle Verte (opp. Saguenay). Quebec. Three Rivers. Montreal. Lachine. Lachine. Lachine. Lachine. Lachine. Lachine. Lachine. Coteau Lauding. Cornwall Lake St. Louis. Cornwall. Dickinson's Landing. Cornwall Lake St. Louis. Cornwall. Dickinson's Landing. Cornwall Coteau Lauding. Cornwall Coteau Laud	on. Inter- to mediate.	
Amherstburg. Windsor River Detroit. Windsor. Foot of St. Mary's Island Lake St. Clair. Foot of St. Mary's Island. Sarnia River St. Clair. Sarnia Foot of St. Joseph Island. Lake Huron. Foot of St. Joseph's Island. Foot of Sault Ste. Marie. River Ste. Marie. Sault-Ste. Marie Head of Sault Ste. Marie. Sault Ste. Marie. Head of Sault Ste. Marie. River Ste. Marie Point aux Pins. River Ste. Marie Port Arthur to Lake Shebandowan. Lake Shebandowan to North-west Angle. North-west Angle to Winnipeg.	201 202 6 12 39 126 6 12 39 126 6 18 2 16 16 11 14 14 11 2 16 16 11 2 2 16 17 17 2 17 2 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	240 441 643 649 661 700 826 900 986 1,021 1,070 1,070 1,070 1,075 1,085 1,095

Of the 2,259\( 2 \) miles from the Straits of Belle-Ile to the head of Lake Superior, 73\( 2 \) miles are artificia navigation, and 2,188\( 4 \) open navigation.

Straits of Belle-Ile to Liverpool, 1,942 geographical or 2,234 statute miles.

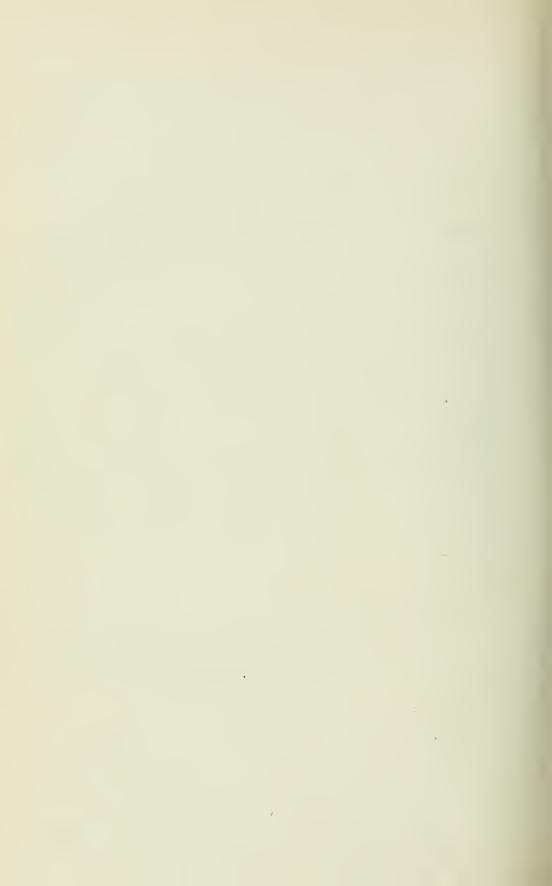
The total fall from Lake Superior to tide-water is about 600 feet.

The steamboat voyage from Collingwood to Port Arthur is 532 miles.

Depot Harbour to Port Arthur is 510 miles; to Dulnth is 644 miles; to Chicago 525 miles, and to Milwaukee, 442 miles.

Table of distances of Stations between the cities of Ottawa and Kingston.

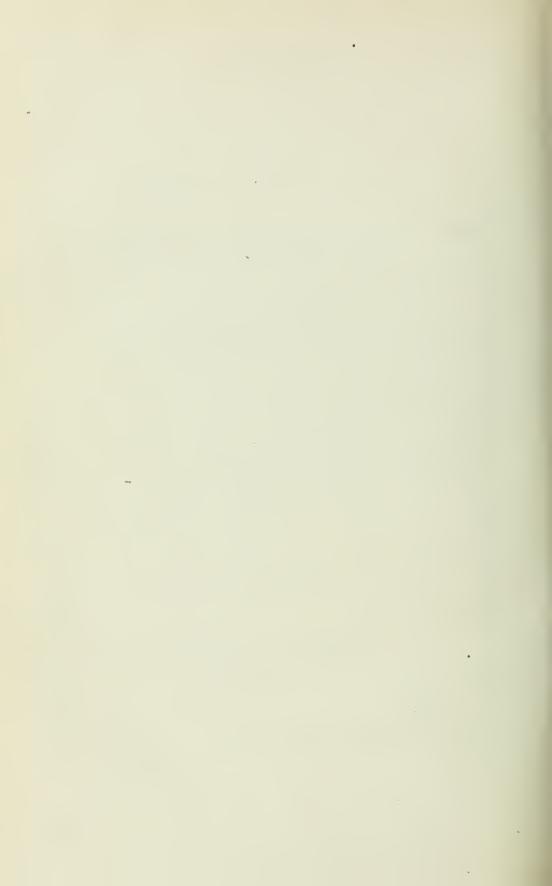
No. of Station.	None of Station.	Distances from	L	ocks.		Dams	of Arti	
No. of	Company of Francisco	Ottawa.	No.	Lift at Low water.	No.	Length.	Height.	Length fiicia each in mi
2	Ottawa	Miles.	8 2 2	Rise, Ft. In. 82 0 22 0 13 6	3	Feet. $ \begin{cases} 230 \\ 1,320 \\ 1,616 \\ 100 \\ 320 \end{cases} $	Feet.  13 33 14 28 60	. 4 00
5 6	Hogsback. Black Rapids Long Island. Barritt's. Nicholson. Clowes. Merrickville. Maitland. Edmunds. Old Slys. Smith's Falls. First Rapids or Poonamalie. Narrows.	95 1435 405 435 445 445 55 50 60 61 64 83	1 3 1 2 1 3 1 1 2 4 1	10 0 27 0 10 6 15 2 10 6 25 0 4 9 10 10 15 6 33 9 7 9 4 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300 300 850 240 500 481 150 270 343 250 600 260 600	12 68 14 9 16 6 8 8 20 24 5	0.13 0.13 1.50 0.50 0.05 0.33 0.13 0.06 0.25 0.13 1.25 0.06
16 17 18 19 20 21 22 23	Total rise at low water  Isthmus Chaffey Davis Jones' Falls Brewer's Upper Mills  " Lower Mills Kingston Mills. Kingston	$\begin{array}{c} 92\\ 94\frac{1}{4}\\ 97\frac{1}{4}\\ 108\frac{1}{4}\\ 110\\ 120\frac{1}{4} \end{array}$	1 1 1 1 2 1 4	Fall 4 0 12 6 9 0 60 0 19 0 14 2 46 8	1 1 1 1 1	300 300 200 200 6,042		1 · 25 0 · 13 0 · 06 0 · 25 1 · 75 4 · 25 0 · 25
	Total fall at low water	·	47	165 4	24	15,472		



# INDEX.

# CANAL STATISTICS FOR SEASON OF NAVIGATION, 1910.

TRODUCTION—	Page	8.
Comparison of Traffic – Canals.		
Tonnage of Freight and Vessels for a number of years	7, 1	
Statement of grain passed down the Welland Canal	1	
n to Montreal by Grand Trunk and Canadian Pacific Railways	2	
St. Lawrence Canals	2	
of Transhipment of Grain at Kingston and Prescott	2	
East and West-Bound Freight. Through Freights, East and West, by Welland and St. Lawrence Canals, also	2	2
Through Freights, East and West, by Welland and St. Lawrence Canals, also	0	0
Freight from U. S. to U. S. Ports	2	ð
Number of vessels and total quantity of freight through the Welland Canal,	2-	
also total from U. S. to U. S. Ports for a number of years	2:	
of the total quantity of freight through the several divisions of the Canals  Comparative Statement of the Commerce through the United States, St. Mary's Falls and		,
the Canadian Sault Ste, Marie Canals for 1909 and 1910.	26, 2	7
Table A.—Statement of freight moved Up and Down the Welland Canal for a series of years.	28, 2	
B.—Vegetable Food cleared downward through the Welland Canal for a number of	ات والا	.,
	3	a
years.  " C.—Statement of freight passed through the Welland Canal in transit between Ports		Ĭ
of the United States	31, 3	2
of the United States	,	П
vessels	3 to 3	6
Recapitulation West Bound Through freight, Welland Canal	3	7
East and West Bound Through freight, Welland Canal	3	7
F.—Freight passed Eastward from Lake Erie to Montreal	38, 3	9
G - Freight passed Westward from Montreal to Lake Erie	40, 4	1
II.—Freight passed Eastward through Welland Canal from U. S. to U. S. Ports	42, 43	
1.—Quantity of grain transdhipped at Kingston, Prescott and Ogdensburg	4	
" M.—Coal passed through the Welland Canal from 1885 to 1910	. 4	
N.—Coal passed the St. Lawrence Canals from 1885 to 1910	4	6
" OQuantity of through freight down Welland Canal to Montreal, other Canadian	40.4	0
Ports and United States Ports	, 48, 4	3
Table 1.—Comparative Statement of Grand Total Freight passed through all the Canais for	5	Λ
1909 and 1910	J	U
4 2.—Summary of Author, Tonnage and Nationality of Vessels hassed through the	5	1
several canals	52, 5	
4.—Comparative Statement of Traffic for 1909, 1910.	58, 5	
5.—Statement of Traffic for 1910	60, 6	
" 5.—Statement of Traffic for 1910	,	
through	62, 63	3
7.—Sault Ste. Marie Canal, Total traffic arranged alphabetically	64, 6	
7.—Welland Canal	66, 6	
Through "	68, 6	9
Way " "	70, 7	1
St. Lawrence Cauals. Total Traffic arranged alphabetically	72, 7	3
Through " Way "	74, 7	5
Way "	76, 7	
Chambly Canal, Total Traffic arranged alphabetically	78, 7	
St. Peter's Canal "	80, 8	
Murray Canal " "	82, 8	
Ottawa Canal II II	84, 8	
Rideau Canal	88, 8	0
St Andraws Canal	90, 9	1
Kideau Canal Trent Valley Canal St. Andrews Canal Table 8.—Statement of Classified Tonnage of all vessels for 1910.	92, 9	
Appendix.—Dominion Canals. 95		



# RAILWAY STATISTICS

OF THE

# DOMINION OF CANADA

FOR THE

#### YEAR ENDED JUNE 30

# 1910

(From sworn Returns furnished by the several Railway Companies)

A. W. CAMPBELL

Deputy Minister of the Department of Railways and Canals.

PRINTED BY ORDER OF PARLIAMENT



#### OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY

1910

[No. 20b—1911]



To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom, and a Baronet; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George. &c., &c., &c., Governor General of Canada.

MAY IT PLEASE YOUR EXCELLENCY,

The undersigned has the honour to present to Your Excellency the Annual Report of the Comptroller of Statistics for the year ended June 30, 1910,

GEO. P. GRAHAM,
Minister of Railways and Canals.



To the Honourable George P. Graham,
Minister of Railways and Canals.

SIR,—I have the honour to submit the annual report of the Comptroller of Statistics for the year ended June 30, 1910.

This is the fourth report compiled from the new schedules which were put into force on July 1, 1906.

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

A. W. CAMPBELL,

Deputy Minister of Railways and Canals.



# Office of the Comptroller of Statistics, Ottawa, November 15, 1910.

A. W. CAMPBELL, Esq., C.E.,

Deputy Minister of Railways and Canals.

Sir.—I have the honour to submit herewith Railway Statistics for the year ended June 30, 1910.

Four years of experience with the classifications and schedules which were made effective in 1907 have made reporting railways reasonably familiar with the new method of accounting. The information gathered in this way is presenting a cumulative value as the bases of comparison widen.

It is with peculiar satisfaction I am able to report the prompt return of statistical schedules to the Department. This commendable spirit of co-operation on the part of railways has done much to expedite the heavy work of tabulation.

The figures subjoined reveal a year of marked progress in all the aspects of rail-way development in Canada.

#### MILEAGE.

The railway mileage of Canada was increased by 626.69 miles during the year 1910. Of this increase 519.12 miles were in the four western Provinces of Saskatchewan, Alberta, Manitoba and British Columbia.

The 24,730.86 miles of railway reported as being in operation on June 30 last, do not include a considerable mileage in actual operation, but officially regarded as 'under construction.' For example, while the Grand Trunk Pacific Railway is conducting a regular passenger and freight service over that portion of its line between Winnipeg and Edmonton, as well as a freight service between Fort William and Winnipeg, a distance of more than 900 miles, not a mile of that system is included in the total just indicated. It might, in fact, be fairly assumed that 1,500 miles of additional railway are really available throughout the Dominion, although returned as technically unfinished.

As you are aware, the Department is frequently asked for specific information with respect to the number of miles of railway under construction in Canada. It is always impracticable to give a satisfactory answer. The term 'under construction' is too comprehensive. It covers the work of railway building all the way from the preliminary survey to the driving of the last spike. Assuming, however, that construction implies the active prosecution of positive work toward a completed railway, it is estimated that at least 4,500 miles of line were thus under way on June 30 last.

1 GEORGE V., A. 1911

The record of railway mileage in Canada since 1835 is as follows:-

Year.	Miles in operation.	Year.	Miles in operation.
1835. 1836. 1837. 1838. 1839. 1840. 1841. 1842. 1843. 1844. 1845. 1845. 1846. 1847. 1848. 1849. 1850. 1850. 1851. 1852. 1853. 1854. 1855. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1862. 1863. 1864. 1868. 1868. 1869. 1870.	0 16 16 16 16 16 16 16 16 16 16 16 16 16	1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1900 1901 1902 1903 1904 1905 1906 1907	3,832 4,331 4,804 5,782 6,258 6,858 7,194 7,331 8,697 9,577 10,273 11,793 12,184 12,163 12,163 13,151 13,838 14,564 15,005 15,627 16,550 16,870 17,250 16,870 17,250 16,870 17,250 16,487 17,250 17,250 18,714 18,988 19,431 20,487 21,353 22,452 24,452 24,45

The railway mileage for 1910 was distributed by Provinces as follows:-

_	Miles.	Increase.
Ontario, Quebec. Manitoba Saskatchewan Alberta. British Columbia New Brunswick Nova Scotia. Prince Edward Island. Yukon.	3,794·94 3,220·62 2,931·90 1,488·42 1,832·28 1,521·65	300.56
Total	24,730.86	626.86

The growth of railway mileage by Provinces during the past four years is shown in the following table:—

	1907.	1908.	1909.	1910.
Ontario. Quebec. Manitoba. Saskatchewan. British Columbia. New Brunswick. Nova Scotia Prince Edward Island. Yukon.	7,638	7,933	8,229	8,230
	3,516	3,574	3,663	3,795
	3,074	3,111	3,205	3,221
	2,025	2,081	2,631	1,488
	1,686	1,733	1,796	1,832
	1,503	1,509	1,547	1,522
	1,329	1,344	1,351	1,351
	267	267	269	269
	91	91	91	91

# CORRECTION.

The growth of railway mileage by Provinces during the past four years, as shown on page VIII, should read as follows:—

	1907	1908	1909	1910
Ontario	7,638	7,933	8,229	8,230
Quebec	3,516	3,574	3,663	3,795
Manitoba	3,074	3,111	3,205	3,221
Saskatchewan	2.025	2,081	2,631	2,932
Alberta	1,323	1,323	1,321	1,488
British Columbia	1,686	1,733	1,796	1,832
New Brunswick	1,503	1,509	1,547	1,522
Nova Scotia	1,329	1,344	1,351	1,351
Prince Edward Island	267	267	269	269
Yukon	91	91	91	91

J. L. PAYNE,

Comptroller of Statistics.



The decrease of 25 miles in New Brunswick is due to the elimination of the Albert Southern Railway, which has not been operated for many years.

During the year 1910 there were added 79.43 miles of second track, while yard track and sidings were increased by 393.47 miles. These additions have an important relationship to transportation facilities as a whole. The record in this regard since 1907 is as follows:—

	1907.	1908.	1909.	1910.
Double track	1,067 4,092	1,211 4,546	1,461 4,761	1,543 5,155

It will be seen that during the past four years there has been an increase of 2,279 miles of main line, 476 miles of second track, and 1,063 miles of yard track and sidings—a total of 3,818 miles.

Combining main line, second track and yard track and sidings, following is the result for the past four years:—

Year.	Miles.	Increase
1907	27,967 29,068 30,667 31,767	1,101 1,599 1,100

# RAILWAY CAPITAL.

During the year \$101,816,271 was added to the capital liability of Canadian railways, of which \$40,022,740 was represented in stocks and \$61,793,531 in funded debt. The total of outstanding obligations was \$1,410,297,687.

Comparing 1909 and 1910, the result is as follows:-

	1909.	1910.	Increase.
Stocks Funded debt	\$ cts. 647,534,647 660,946,769 1,308,481,416		\$ cts 40,022,740 61,793,531 101,816,271

The funded debt of 1910 was divided under the following heads:-

Fonds Miscellaneous obligations.	\$696,677,305 8,365,077
Income bonds. Equipment trust obligations.	5,036,546 12,661,372
Total	\$722.740.300

Details with respect to the distribution of the above stock and bond liability by railways will be found in Table 4.

It has been the quite natural practice of those who have sought to measure the capital liability of Canadian railways to add to the stock and bond issues the cost of

Government railways, as well as the amount received by way of cash subsidy, and to divide the aggregate thus obtained by the main line, or single track, mileage. The so-called capital cost per mile was thus obtained. This has always been regarded as a convenient method of comparing the capital liability of railways in different countries, and, whenever the bases of the calculation have been identical, it was satisfactory; but, when applied to Canada, it has produced a wholly misleading result.

If to the \$1,410,297,687 of stock and bond liability indicated above is added the \$190,753,063 shown in Table 5 to have been received by railways as cash aid, a total of \$1.601.050,750 is had. That sum, divided by the 24,731 miles of main line in Canada, gives a capital liability of \$64,747 per mile. This, however, would be a delusive result, for the sufficient reason that both the capital liability and the railway mileage

are exaggerated. Let these two factors be dealt with separately.

First, as to capital liability: It was pointed out in the reports of 1908 and 1909 that a very considerable volume of practically extinct stock and bond obligations was being shown in the annual returns of railways. Smaller roads had in many instances been absorbed by the larger, and, notwithstanding the fact that this absorption involved the purchase of the stocks and bonds of the former by the issue of similar pledges by the latter, the capital liability of both corporations was reported to the Department. That is to say, the A B & C Railway Company, having bought the stocks and bonds of the D E & F Railway Company by issuing new stocks and bonds of its own, and thus coming into possession of the property, returned its own increased liability and that of the absorbed corporation as though both were alive. Obviously, the liability of the acquired railway should be cancelled, and not any longer regarded as representing an actual obligation, although the certificates might be in the vault of the purchasing company. Such would be the practice in everyday commerce. If A obtained possession of a promissory note for \$100 made by B by giving one of his own for a like amount, the transaction would not be said to involve an obligation of \$200.

There are also a considerable number of railways included in Table 4 which, while having outstanding issues of stocks and bonds, have not passed beyond the construction stage. The case of the Grand Trunk Pacific will serve as an illustration of this class. Until a definite mileage is attached to such roads, the only practicable course is to leave out of the calculation the whole of the capital liability. Then, there are lines of railway which are subsidiary to larger corporate interests, as, for example, the Sydney and Louisburg. In that instance, the stocks and bonds attaching to that road are not given in Table 4, for the reason that they are included in the total capitalization of the Dominion Coal Company, and it has been found impossible thus far to obtain a separation of accounts. Several railways, like the Albert Southern, have not been in operation for a long period of years, and both the property rights and the capital liability may be regarded as dead.

Without further reference to special conditions, let it be said that an earnest effort has been made to ascertain what deduction, for the reasons indicated, should be made from the total capital liability of Canadian railways. Without giving the details, the amount has been fixed at \$226.298,988. When this is subtracted from the \$1,410,297,687 given above, the aggregate capital liability is reduced to \$1,183,998,699.

Second, as to mileage: There are in the Dominion 2,043.84 miles of Government owned and operated railway, against which neither stocks nor bonds are outstanding. There are also 75.36 additional miles of line to which no capital liability is attached in Table 4. These two items make a total of 2,119.20 miles, which should be deducted, for the purpose of the present calculation, from the 24,731 given as the total railway mileage on a preceding page.

Dividing 22,612 miles of railway into a total capitalization of \$1,183,998,699, we have \$52,361 as the quotient. That is the actual outstanding capital liability per mile against railways in Canada.

It is quite impracticable to ascertain what has been the actual cost of Canadian railways. The cost as represented in stocks and bonds is one thing, and the actual cost quite another. Exchanges of ownership and the destruction of early records have, in many instances, utterly lost to reporting roads the facts with respect to primary expenditures. Nevertheless, during the current year an earnest effort will be made to gather together whatever data are available under that head.

To make an appraisement of the physical value of existing lines would be a stupendous task, and it would also be exceedingly costly. It is doubtful if the results would justify the outlay. With an outstanding liability equal to \$52,361 per mile, there could not be any suspicion of general over-capitalization of railways in Canada. Taking the latest available statistics with regard to the capital obligations attaching to railways in other countries, the following comparison is instructive:—

	_	-			Capital liability.	Per mile.
					\$	\$
Great Britain. Germany France Belgium. United States. Victoria. New South Wales Canada					6,382,296,742 3,903,848,400 3,447,466,000 430,800,000 13,508,711,173 210,244,578 22,721,478 1,183,998,699	109,788 139,390 169,806 57,976 60,225 136,876

The facts in relation to the cost of Government owned and operated railways in Canada are readily available, and they show the following situation:—

<u> </u>	Miles of line.	Capital cost.	Cost per mile.
Intercolonial Prince Edward Island. Temiskaming and N. Ontario. New Brunswick C. and Railway.	966	\$ 92,273,074 8,465,365 15,315,672 1,964,640	\$ 63,636 31,705 57,577 33,873

### AID TO RAILWAYS.

No one may say to what extent the construction of railways in Canada has been aided. Assistance has taken three forms—cash subsidies, land grants and guarantees. The amount of eash paid by the Dominion and Provincial Governments, as well as by municipalities, has been definitely ascertained; but beyond that it is impracticable to carry the account. The number of acres of land granted and the total of guarantees given have been made up; but the precise money value of these concessions is unknown.

During the year 1910, eash subsidies to the amount of \$1,789,723 were paid, as follows:—

By the Dominion By the Provinces By Municipalities		 248,531
		\$1,789,723

The account respecting cash subsidies now stands as follows:-

Year,		Provinces.	Municipalities.
1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1890. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1898. 1899. 1901. 1905. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1906. 1906. 1906. 1908. 1908. 1908.	*18,564,352 37 16,235,185,33 26,438,914 96 26,438,914 96 32,761,920 65 37,629,207 33 49,548,639 93 478,123,918 18 92,762,967 17 87,426,814 52 91,228,674 03 c90,614,574 40 91,888,491 21 93,889,277 76 96,529,524 07 97,601,639 53 100,422,165 09 102,987,290 06 1103,431,148 93 101,961,763 91 102,458,434 71 103,878,261 66 107,300,639 24 107,760,795 70 110,225,503 43 113,791,113 47 115,875,668 31 117,145,511 67 118,474,316 04 128,827,648 77 133,049,376 77	\$ cts.  4, 203, 240, 43 4, 338, 498, 02 14, 292, 002, 29 14, 593, 001, 91 17, 639, 206, 60 a16, 676, 266, 29 17, 044, 628, 91 18, 342, 102, 80 19, 836, 055, 93 19, 137, 719, 93 21, 204, 993, 01 23, 342, 758, 82 24, 036, 306, 80 25, 086, 285, 41 25, 731, 965, 43 25, 086, 285, 41 25, 731, 965, 43 25, 086, 285, 41 25, 731, 965, 43 26, 997, 435, 78 28, 229, 355, 49 29, 368, 697, 75 29, 727, 512, 63 30, 055, 946, 30 31, 171, 346, 65 31, 495, 555, 48 31, 656, 725, 57 31, 310, 170, 06 32, 395, 522, 67 33, 1496, 917, 84 44, 496, 917, 84 40, 415, 630, 27 43, 278, 022, 12 b35, 123, 130, 80 35, 588, 526, 15 35, 837, 069, 16	\$ ets.  5,426,505 70  5,689,299 31  7,224,578 63  7,450,978 63  7,450,978 63  8,313,944 63  8,803,313,944 63  9,102,552 94  9,934,556 94  12,472,450 43  12,599,292 43  12,812,836 43  13,144,224 43  13,461,224 43  13,709,624 43  13,817,509 43  13,981,247 99  14,178,610 99  14,178,610 99  14,180,686 99  14,180,686 99  14,174,668 59  15,5820,867 99  15,660,667 99  15,660,667 99  15,660,667 99  17,740,668 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,669 59  17,740,698 59  17,430,945 04  17,430,945 04  17,824,823 60  17,983,823 60

<sup>\*</sup>Included loan \$2,311,666.67 to Northern Railway; not reported after this year, †Included loan \$29,880,912 to C. P. Railway; not reported later, cEastern extension \$1,284,495.76 now included in I. C. Railway, †Incorrect total of \$2,394,000 shown to the North Shore Railway, aDecrease of \$1,044,000 by N. B. Government to St. John and Maine Railway, bThis amount does not include the cost of the Temiskatoing and Northern Ontario Railway (\$10,570,549)

as formerly.

dThis includes \$10,000,000 loaned to the Grand Trunk Pacific Railway Company un ler authority of Chap. 19 of the Statutes of 1909.

SESSIONAL PAPER No. 20b

Following is an analysis of the cash subsidies paid by the various Provinces since 1875:-

	Ontario.	Quebec.	Nova Scotia.	New Brunswick,	British Columbia.	Manitoba.	Totals.
	\$ cts,	& cts.	es cts:	& cts.	es cts.	S cts.	S cts.
1875	-00						- 6
1876	1,884,719 43	336 891 00					1,203,240 43
1878	2,229,639 02	1,192,013 27					6, 970, 402 29
1879.	2,549,639 02	1,192,013 27	818,750 00	2,730,000 00			7,290,402 29
1881	3, 183, 037 02	1,578,443 27					8,338,810 29
1882	3,702,537 02	1,600,992 27					8,890,524 29
28.85	4.012.908 02	2.186.125 91					10, 958, 099, 93
1885	4,504,981 52	2,428,239 41				- 4	12,027,989 93
1886	5,983,985,52	2,705,714 41				386,250 00	11.179,715 93
2888	5,984,007 52	4,708,319 41			500		18, 572, 701, 95
1889	5,984,007 52	4,784,105 41			200		18,961,353 12
1890	6,014,015 52	5,166,365 33	052,195 005 965		000	2,380,690 00	19,831,732 56
1892	6,171,181 44	7,583,060 76			37,500 00	2,390,690 00	22.647.192 68
1893	6,391,932 74	7,864,561 83	121,944		200	2,623,286 77	23,464,507 70
1805	6 747 685 24	9,345,115 38	255,544 158,847		300	2,625,561 77	24,968,741 75
1896	6,932,388 24	10,072,942 06	208,847		200	2,625,561 77	26,333,019 17
1897	7,119,065 63	10,859,484 01	258,847		200	2,625,561 77	27,363,129 22
1808	7 281 199 63	11,100,334 88	304,847		200	2,625,561 77	27,767,258 05
1990	7,406,992 59	11,217,864 63			000	2,789,061 77	28,285,306 80
	928	11,590,489 84	522,847		200	2,796,837 02	29, 296, 643 32
1902	217	11,995,282 16	582,847		000	2,796,888 02	30,348,274,68
	27.0	12, 163, 285, 66	568,445	4.569.937.71		2,504,001 //	31 794 633 7K
	504	12,259,285 66	192	4,580,934 71	2009	2,872,887 02	32.304.304.61
	722	12,304,470 16	267	4,585,537 71	135	2,872,887 02	33,017,019 50
	300	12,304,470 16	258 200 200 200 200 200 200 200 200 200 20	4,616,237 71	135	2,872,887 02	34,935,024 13
1908	9,038,296,03	12,328,196 52		4,807,486 71	500	2,878,887,02	36,169,864 03
	919	12,328,196 52	299	4,851,486 71	500	2,878,887 02	36, 424, 395 01

The cash aid given by municipalities is shown, by Provinces, in the following table:--

	Ontario.	Quebec.	Nova Scotia.	New Brunswick.	British Columbia.	Manitoba.	Northwest Territories.	Totals.
	s cts.	\$ cts.	& cts.	\$ cts.	& cts.	\$ cts	\$ cts.	\$ cts.
1875	320	000		200				20
1877	4.660.505 70	513,000 00		210.500 00				5.384,005 70
87.8	434	34		200				200
1879.	934	777		500				128
1881	300	77	250,000,00	200			:	44
1882	000	1.864,144 62		2002				144
1883	11	125,144		500				55
2000	Ξ	150, 144		200				55
1000	302	195.144		200		000		120
2000	250	250.950		200		009		392
1888	202	2.495.144 62		200	200			222
1889.	305	569.818		200	200	009		724
1890	305	626.318		200	200	600		22.
1892	200	725 714		200	200	600		600
1000	533	2,840,718,62		200	200	000		243
1894	10,391,607 37	2.840.718 62		200	37.500 00	490.600 00		
1895	383	2.840.718 62		200	200	609		386
1897	553	2.840,718 62		200	200	009		256
1898.	107	2,865,718 62		200	200		:	207
1899.	191	2.865.718 62		200	200	009	261	567
1.900	9.	865.718		200	200	009	261	303
1902	7 5	2,942,929,02		36	200	009	261	14
1903	, <del>1</del>	118.519		96	000	200	707	# :
1904.	17	125,727		2005	305		207	# 5
1905	063	126,036		200	200	909	261	1 12
1906.	83	126.036	471,898 10	500	952.	009	261	000
1907	197	3,127,536 08		200	952	900	261	155
1909	7.0	3 137 536 08	481.898.10	2000	222	009	22.261 29	327
1910	075	3, 137, 536 08	,,,,,	200	000		201	200

In order that the foregoing statement with respect to cash subventions may be better understood, the following divisions of the account are presented:—

#### DOMINION.

Cash subsidies Loans Cost of lines handed over to C. P. R. Paid to Quebec Government  Total.	37,785,319 5,160,053	33 97 83
		-
Provinces,		
Cash subsidies Loans Subscriptions to shares	\$32,787,030 2,750,030 300,000	00
Total,,,,,	\$35,837,060	16
Municipalities.		
Cash subsidies. Loans. Subscriptions to shares.	2.404.498	62
Total	\$17,983,823	60

#### LAND GRANTS.

The account in relation to land grants stood as follows on June 30 last:-

	Acres.
By the Dominion. By the Province of Quebec. By the Province of British Columbia. By the Province of New Brunswick. By the Province of Nova Scotia.  Total.	32,040,378 13,324,950 8,119,221 1,647,772 160,000 55,292,321

# An analysis of the land grants of the Dominion gives the following result:-

	Acres.
Alberta Railway and Irrigation Co. (formerly Northwest Coal and Navigation Co) Calgary and Edmonton Railway Co. Canadian Northern Railway Co. (from point on C.P. R. to Hudson Bay) Canadian Northern Railway Co. (formerly Lake Manitoba and Canal Co.). Canadian Pacific Railway Co. (main line). C. P. R. Pipestone Extension, Souris Branch. C. P. R. Souris Branch. Great Northwest Central Railway Co. (formerly Northwest Central Railway Co.). Manitoba and Northwestern Railway Co. Manitoba Southeastern Colonization Railway. Manitoba and Southeastern Railway Co. Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Co Saskatchewan and Western Railway Co. Total.	1,114,368 1,895,445 3,458,675 18,237,701 278,818 1,422,966 320,000 1,501,376 682,412 1,630,097 98,880

As has been said, it is quite impracticable to assign any money value to the above land grants. In the case of the Province of Quebcc it has been the policy of Government to present to grantees the option of taking the land or receiving a sum equal to 52 cents per acre in lieu thereof. In practically every instance the cash option has been taken; so that of the 13,324,950 acres primarily granted by that Pro-

. 1 GEORGE V., A. 1911

vince, but a small number, if any, has been actually alienated. On the other hand, as indicating the value of land grants by the Dominion, last year the Canadian Pacific Railway Company sold 975,030 acres of land at an average price of \$14.84 per acre.

#### GUARANTEES.

It would seem that within recent years a preference for aid in the form of guarantees, as against cash or land subventions, has arisen among the promoters of railway enterprises. At all events, the volume of such obligations has increased very rapidly since 1903. and on June 30 last the situation was as follows:—

#### DOMESTON.

1. The Canadian Northern Railway Company, Cap. 7, 3 Edward VII (1903). The guarantee is for the principal of £1,923,287 sterling, and interest thereon at the rate of 3 per cent per annum for fifty years.

2. The Canadian Northern Railway Company, Cap. 11, 7 and 8 Edward VII

(1908).

The guarantee is for the principal of £1,622,586 19s 9d sterling debenture stock and interest thereon at the rate of  $3\frac{1}{2}$  per cent per annum for fifty years, from July 20, 1908, interest payable half-yearly.

3. The Grand Trunk Pacific Railway Company, Cap. 24, 4 Edward VII (1904).

The guarantee is for a sum equal to 75 per cent of the cost of construction of the Western Division of the National Transcontinental Railway, but not exceeding \$13,000 per mile in respect of the Prairie Section of the said railway. The amount of bonds issued and guaranteed is £7,200,000, of which £3,200,000 were issued in 1905, £2,000,000 in 1909, and £2,000,000 in 1910.

The amount represented by the above guarantees is £10,745,874 or \$52,439,865.

#### MANITOBA.

To the Canadian Northern Railway Company:

Main and branch lines in Manitoba	\$12,154,073 33 3,000,000 00
Ontario Division (line to Port Arthur)	5,745,586 67
Total	\$20,899,660 00

#### ALBERTA.

The outstanding guarantees of this province on June 30, 1910, amounted to \$25,743,000, divided as follows:—

Canadian Northern Railway Company	6,383,000
Alberta and Great Waterways Co	7,400,000
Total	 \$25,743,000

#### SASKATCHEWAN.

To the Canadian Northern Railway Company—at the rate of \$13,000 per mile on 730 miles of branch lines—\$9.490,000.

To the Grand Trunk Pacific Branch Lines Company—at the rate of \$13,000 per mile on 193 miles—\$2,509,000.

Total amount of gnarantees-\$11,999.000.

#### ONTARIO.

To the Canadian Northern Outario Railway Company—Guarantee of interest on bonds aggregating \$7,860,000.

#### NOVA SCOTIA.

Halifax and Southwestern—A loan of \$13,500 per mile, which, on a total of 372 miles, would amount to \$5,022,000, secured by mortgage, with the right to take over and sell or operate the property in case default is made in the terms of the covenant.

#### BRITISH COLUMBIA.

Shuswap and Okanagan—Guarantee of interest on \$1,249,760 for 25 years at 4 per cent.

Victoria and Sidney—Guarantee of interest on \$300,000 for 25 years at 2 per cent. Nakusp and Slocan—Guarantee of principal and interest on bonds aggregating \$647,072 for 25 years at 4 per cent.

Total guarantees—\$2,196,832.

#### NEW BRUNSWICKS

On bonds of the New Brunswick Coal and Railway Company—\$700,000.

#### QUEBEC.

On bonds of the Montreal and Western Railway Company—\$476,000. Summarizing the foregoing statements with respect to guarantees, the result is as follows:—

Dominion.										 				 										 			 \$52,439,865
Manitoba.										 												 		 			 20.899.660
Alberta										 				 							 	 		 			 25.743.000
Saskatchev	van			٠.		٠.			 	 				 							 	 		 			11,999,000
Untario							٠							 ٠.	٠						 , in	 					 7,860,000
Nova Scot	a	1.1.1				٠.	٠	 ٠							٠	 ٠						 ٠.	٠				 5,022,000
British Col	um	DIA				٠.	٠	 ٠	٠	 ٠			٠	 	٠	 ٠	٠.	٠	٠.	٠					٠.		 2,196,832
New Bruns	sw10	:К.,					٠	 ٠	 ٠			٠.		٠.	٠	 ٠		٠					٠			٠	 700,000
tydebec					٠.		٠	 ٠			 				٠	 ٠		٠			 ٠	 				•	 476,000
T	otal	gı	la '	rai	ní	æe	s,		 		 			 		 					 						\$127,336,357

# PUBLIC SERVICE OF RAILWAYS.

The public service of Canadian railways in 1910 was represented in the carrying of 35,894,575 passengers and 74,482,866 tons of freight. As compared with 1909, these figures show an increase of 3,211,267 passengers and 7,640,608 tons of freight.

The passenger and freight traffic of the Dominion for the past 36 years has been as follows:—

Year.	Passengers carried.	Tons of Freight, 2,000 lbs.	Year.	Passengers- carried.	Tons of Freight, 2,000 lbs.
875. 876. 877. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890.	5,190,416 5,544,814 6,073,233 6,443,924 6,523,816 6,462,948 6,943,671 9,352,335 9,579,984 9,982,358 9,672,599 9,661,024 10,698,638 11,416,791 12,151,105 12,821,262 13,222,568 13,533,414	5,670,837 6,331,757 6,859,796 7,883,472 8,348,810 9,938,858 12,065,323 13,575,787 13,266,255 13,712,269 14,659,271 15,670,460 16,356,335 17,172,759 17,928,626 20,787,469 21,753,021 22,189,923	1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910	13,618,027 14,462,498 13,987,580 14,810,407 16,171,338 18,444,049 19,133,365 21,500,175 18,385,722 20,679,974 22,148,742 23,640,765 25,288,723 27,989,782 27,989,782 32,137,319 34,044,992 32,683,309 35,894,575	22,003,59 20,721,11: 21,524,42 24,266,42 25,300,33 28,785,90 31,211,75 35,946,18 36,999,37 42,376,52 47,373,41: 50,893,95 57,966,71 63,866,13 63,071,16 66,842,25;74,482,866

#### PASSENGER TRAFFIC.

As has been said, the number of passengers carried during the year 1910 was 35,894,575.

The number of passengers carried one mile was 2,466,729,664, an increase of 433,728,439 as compared with the preceding year.

The number of passengers carried one mile per mile of road was 99,742, representing an increase for 1910 in the density of passenger traffic of 15,400.

The number of passengers carried per mile of line was 1,451, an increase of 96 as compared with 1909. Since 1907 there has been an increase in railway mileage of 2,279 miles, while the number of passengers carried per mile of line has increased but 20—showing clearly that railway construction has proceeded more rapidly than has the development of passenger traffic.

The average revenue per passenger per mile was 1.866 cents. This rate was .055 below the figures for 1909.

The aggregate passenger revenue was \$46,018,879.56. This is strictly the result of ticket sales, apart from the earnings from the running of passenger trains, and which latter include mails, express and baggage. The total passenger earnings, representing income from all sources, was \$52,956.218.51. Details will be found in Table 7.

The average number of passengers per train was 59, an increase of 8 over 1909.

The average passenger journey was 69 miles, as compared with 62 in the preceding year.

The average revenue per passenger—that is, from ticket sales—was \$1.282. This was a gain over 1909 of .087, which is not surprising in view of the increased length of the average passenger journey.

Passenger trains ran a total distance of 35,022,541 miles, or 2,726,811 more than in 1909. Mixed trains ran 6,441,440 miles, as against 7,061,580 in the preceding year.

The earnings per passenger train mile—using the aggregate earnings from ticket sales, mails, express, baggage, &c., as one of the factors—were \$1.277, or .127 better than in 1909.

All the above figures point to a marked improvement in the passenger situation during the year 1910.

Following is a complete summary of facts relating to passenger traffic:-

	1907.	1908.	1909.	1910
Miles of railway.  Number of passengers.  Passengers carried one mile.  Passengers one mile per mile of line.  Passengers per mile of line.  Average passenger journey (miles).  Average number of passengers per train.  Passenger train mileage.  Mixed train mileage.  Earnings from passenger service.  Average receipts per passenger.  Average receipts per passenger.  Average receipts per passenger per mile (cents).	32,137,319 2,049,549,813 90,921 1,431 64 56 30,220,461 5,971,414 \$39,184,437 \$45,730,652 \$1,219 1,911	34,044,992 2,081,960,864 90,654	32,683,309 2,033,001,225 84,342	2,466,729,664 99,742

### PREIGHT TRAFFIC.

The volume of freight traffic in 1910 was 74,482,866 tons—a gain of 7,640,608 tons over 1909, or 11.4 per cent.

The number of tons hauled one mile was 15,712,127,701, as compared with 13,-160,567,550 in the preceding year.

The number of tons hauled one mile per mile of line was 635,321. This represented a betterment in the density of freight traffic over 1909 of 89,330 tons.

The average revenue per ton per mile, which is accepted as representing the freight rate earned by all railways combined, was .739 cent. This was .012 higher than the rate for 1909.

Revenue from freight amounted to \$116,229,894.06—an increase of \$20.515,110.65 over 1909. This was equal to 21.4 per cent. The gross freight revenue, which included earnings from other sources than the hauling of freight, was \$117,497,604.03.

The revenue from freight was equal to \$4,699.76 per mile of line. This represented the substantial increase of \$728.85 per mile over the result for 1909.

The average number of tons hauled per freight train was 311—a gain of 33 tons over the preceding year.

The average number of loaded cars per freight train was also increased from 16:37 in 1909 to 18:15 in 1910.

The average number of tons per loaded freight car was 17·13, as against 16·98 in 1909.

The average haul of freight in 1910 was 211 miles—an increase in distance of 14 miles over 1909.

It is obvious from the figures in the five preceding paragraphs that (1) the freight earnings per mile of line, (2) the train load, (3) the loaded ears per train, (4) the car load, and (5) the length of the average haul, showed material increases in 1910.

Revenue freight train mileage increased from 40,304,900 in 1909 to 50,184,108 in 1910. Included in this latter figure are 6,441,440 of mixed train mileage.

In consonance with the expansion of freight traffic in 1910, the mileage of loaded cars increased from 775,543,414 to 910,858,711.

Summarizing the foregoing data into tabular form, and earrying the comparison back to 1907, the result is as follows:—

	1907.	1908.	1909.	1910.
Tons hauled Tons hauled one mile Tons hauled one mile per mile of line Average haul, miles Freight train mileage Mived train mileage Revenue from freight Average tons per train Average cars per train Average tons per car Average receipts per ton per mile, cent	$\begin{array}{c} 518,486\\ 183\\ 38,923,890\\ 5,971,414\\ 894,995,087\\ 260\\ 16\cdot 92\end{array}$	$12,961,512,519\\564,378\\206\\40,476,370\\6,210,807\\\$93,746,655\\278\\16\cdot04$	13,160,567,550 545,991	$\begin{array}{c} 15,712,127,701\\ 635,321\\ 211\\ 50,184,108\\ 6,441,440\\ \$116,229,894\\ \$^2,311\\ 18\cdot 15\end{array}$

Following is an analysis of the commodities which constituted the freight traffic of 1910 and the three preceding years:—

	1907.	1908.	1909.	1910.
Dead. star of a similar	Tons.	Tons.	Tons.	Tons.
Products of agriculture— Grain. Flour. Other mill products. Hay. Tobacco. Cotton. Fruit and vegetables. Other products of agriculture. Products of animals—	5,776,731 1,402,386 654,179 803,918 10,042 22,164 562,716 289,525	5,270,935 1,565,008 836,877 643,695 23,235 70,203 803,777 183,237	$\begin{array}{c} 6,837,506 \\ 1,758,894 \\ 1,156,071 \\ 861,265 \\ 26,462 \\ 122,300 \\ 845,930 \\ 354,835 \end{array}$	7,435,573 1,916,934 1,037,282 1,084,966 40,880 84,928 969,122 321,666
Live stock. Dressed meats Other packing house products. Poultry game and fish. Wool. Hides and leather. Other products of animals.	1,118,141 400,900 463,647 128,432 23,472 154,157 180,517	1,156,772 455,580 444,841 151,100 33,318 141,341 89,407	$\begin{array}{c} 1,206,221 \\ 554,984 \\ 436,529 \\ 175,081 \\ 37,236 \\ 202,968 \\ 194,468 \end{array}$	1,314,781 546,791 277,739 154,820 28,814 199,853 242,208
Anthracite coal Bituminous coal. Coke. Ores Stone, sand, &c. Other products of mines.	1,635,628 11,805,060 547,303 2,209,860 2,083,336 178,985	3,735,141 12,320,584 845,702 2,953,353 2,538,333 243,054	4,600,514 11,647,728 1,061,829 3,147,487 3,096,416 377,087	7,498,509 9,166,572 1,384,254 3,636,607 4,084,968 381,112
Products of forests— LumberOther products of forests	7,542,475 2,687,160	10,317,541 2,594,685	7,759,393 3,835,614	7,302,037 5,766,903
Manufactures— Petroleum and other oils. Sugar. Naval stores. Iron, pig and bloom. Iron and steel rails. Castings and machinery. Bar and sheet metal. Cement, brick and lime. Agricultural implements. Wagons, carriages, tools, &c. Wines liquors and beers. Household goods and furniture. Other manufactures. Miscellaneous.	270,810 232,620 1,674 304,136 190,380 231,159 87,958 1,303,792 223,664 42,129 191,576 236,208 4,448,535 2,309,084 5,533,426	390,331 451,641 3,742 583,948 628,988 538,914 353,802 1,421,678 281,834 96,197 209,912 269,299 1,105,433 2,008,267 6,935,135	464,953 701,319 22,509 503,950 446,678 897,849 337,866 1,789,994 306,724 119,463 238,808 301,401 1,681,078 2,393,285 6,234,372	500, 167 617, 231 37,007 889,881 1,189,214 568,901 2,254,934 434,928 173,137 245,626 388,631 1,997,541 2,518,190

Separating the foregoing items into classes, and comparing the figures with those of preceding years the result is as follows:—

	,			
	1907.	1908.	1909.	1910.
Products of agriculture	2,469,266 18,460,172 10,229,635 7,974,641 2,309,084	Tons.  9,396,967 2,472,359 22,636,227 12,912,226 6,655,719 2,008,067 6,938,135	Tons.  11,963,263 2,807,487 23,931,061 11,595,007 7,902,592 2,393,285 6,234,372	Tons.  12,891,351 2,765,006 26,152,022 13,068,940 10,014,279 2,518,190 7,073,078
Totals	56,497,885	63,019,900	66,827,067	74,482,866

In order that the relationship of each of these classes to the whole volume of freight traffic may be seen at a glance, the following table of percentages is presented:—

	1907.	1908.	1909.	1910.
Products of agriculture. Products of animals. Products of mines. Products of forests. Manufactures. Merchandise. Miscellaneous.	$\begin{array}{c} 16 \cdot 85 \\ 4 \cdot 37 \\ 32 \cdot 68 \\ 18 \cdot 11 \\ 14 \cdot 11 \\ 4 \cdot 08 \\ 9 \cdot 79 \end{array}$	$14 \cdot 91 \\ 3 \cdot 92 \\ 35 \cdot 92 \\ 20 \cdot 49 \\ 10 \cdot 56 \\ 3 \cdot 18 \\ 11 \cdot 02$	17·91 4·21 35·81 17·35 11·82 3·58 9·32	17·31 3·71 35·11 17·54 13·44 3·39 9·50

It will be observed that the first four classes, representing commodities moved for the most part in bulk, made up 73.67 per cent of the whole. The remaining 26.33 per cent showed a betterment over last year of 1.61 per cent. The chief gain was in manufactures.

Of the 74,482,866 tons of freight hauled, 42,279,812 were returned as 'originating on this road,' and 32,203,054 as received from connecting roads.

# EARNINGS AND OPERATING EXPENSES.

The gross earnings of railways for the year 1910 were \$173,956,217.13—a gain of \$28,899,880.94 over 1909.

The operating expenses were \$120,405,440.42, or \$15,805,355,99 more than for the preceding year.

The ratio of operating expenses to gross earnings was 69.2. This result was 2.9 better than for 1909, and the lowest since 1902.

The following table gives the earnings and operating expenses for each year since 1875:—

Year	Earnings.	Operating expenses.	Percentage o operating expenses to earnings.
	\$	. \$	
5. 6	19,470,539 19,358,084 18,742,053 20,520,078 19,925,066 23,561,447 27,987,508 29,027,789 33,244,586 33,421,705 32,227,469 33,389,381 38,841,609 42,159,152 42,149,1615 46,843,826 48,192,099 51,685,768 52,042,396 49,552,528 46,785,486 50,545,525,58 46,785,486 50,545,5269 52,353,276 59,715,105 62,243,784 70,740,270 72,898,749 83,666,503 96,064,526 100,219,436 106,467,198	15,775,532 15,802,721 16,290,091 16,100,102 16,188,282 16,840,705 20,121,418 22,390,708 24,691,667 25,595,341 24,015,351 24,117,582 27,624,683 30,652,046 31,038,045 32,913,350 34,960,48,228 36,488,428 36,616,033 35,218,432 32,749,668 35,042,654 35,168,665 39,137,549 40,706,217 47,699,798 50,368,726 57,343,592 67,481,523 74,563,161 79,977,573 87,129,434	$81 \cdot 1$ $81 \cdot 8$ $81 \cdot 1$ $78 \cdot 4$ $81 \cdot 8$ $81 \cdot 1$ $78 \cdot 4$ $81 \cdot 2$ $71 \cdot 9$ $77 \cdot 1$ $74 \cdot 3$ $76 \cdot 5$ $72 \cdot 4$ $71 \cdot 1$ $72 \cdot 7$ $73 \cdot 6$ $70 \cdot 2$ $70 \cdot 5$ $70 \cdot 3$ $70 \cdot 5$ $70 \cdot 3$ $67 \cdot 1$ $65 \cdot 3$ $67 \cdot 4$ $69 \cdot 9$ $69 \cdot 9$ $69 \cdot 9$ $67 \cdot 4$ $69 \cdot 9$

#### EARNINGS.

The net earnings for 1910 were \$53,550,776.71, as compared with \$40,456,251.76 for 1909. This was equal to a betterment of 32.3 per cent.

These net earnings were equal to \$2,165.83 per mile of line, or \$486.93 more than for 1909. In view of the added mileage during the year, which could not be expected to have the earning power of mileage which had been in operation for many years, this result must be regarded as highly satisfactory. It must also be borne in mind that in 1910 there were 24 railways in Canada which showed a deficit, or managed merely to make ends meet. These were for the most part small lines, practically subsidiary to trunk roads, and in some instances could searcely be regarded as commercial railways.

Twelve roads showed not earnings amounting to \$52,041,937, or 97 per cent of the total for all lines in Canada.

The gross earnings per mile of railway were \$7,033.93—an increase as compared with the preceding year of \$1,016.

The earnings per passenger train mile were \$1.277, and per freight train mile \$2.316.

A comparison of earnings per passenger train mile and freight train mile for the past four years yields the following result:—

Earnings.	1907.	1908.	1909.	1910,
Latings.	1307.	1306.	13000	
	S	\$	8	\$
Passenger train mile.  Freight train mile.	1.263 2.069	1.228 2.008	$\begin{array}{c} 1.150 \\ 2.041 \end{array}$	$   \begin{array}{r}     1.277 \\     2.316   \end{array} $

The earnings per train mile—using the aggregate income and the total mileage of freight, passenger and mixed trains as factors—were \$2.036. They were \$1.816 in 1909.

The gross revenue for 1910, compared with 1909, came from the following sources:—

	1909.	1910.
Passengers Mails Express. Baggage, parlour cars. &c Freight Station and train privileges. Telegraphs, rents. &c.	\$ cts. 39,073,488 84 1,723,180 97 3,561,170 96 924,485 50 96,685,076 23 493,895 13 2,595,038 56 145,056,336 19	\$ cts. 46,018,879 56 1,799,887 80 4,143,837 52 993,613 63 117,497,604 03 679,061 12 2,523,333 47 173,956,217 13

The proportion which each of the earning divisions bore to the total is shown in the following table:—

	19	09.	1910.		
	\$ cts.	Per cent.	\$ cts.	Per cent.	
Passenger service Freight service Station and train privileges, &c Telegraph, rents and other sources	45,282,326 27 96,685,076 23 493,895 13 2,595,038 56	31·21 66·65 ·35 1·79	52,956,218 51 117,497,604 03 679,061 12 2,826,453 21	$30 \cdot 44$ $67 \cdot 54$ $\cdot 39$ $1 \cdot 63$	
Total	145,056,336 19		173,956,217 13		

The significance of the above proportions will be appreciated when it is pointed out that in the United States, for example, the earnings from freight reach 70.5; while in Great Britain the ratio falls as low as 50.5.

Following is an analysis of the several items which make up the earnings from passenger service:—

	1907.	1908.	1909.	1910.
Passengers. Mails. Express. Other sources. Total.	\$ cts.  39,184,437 64 1,626,704 64 3,277,695 09 1,641,814 92  45,730,652 29	\$ cts. 39,992,503 11 1,670,120 90 3,486,300 63 1,705,234 33 48,854,158 97	\$ cts. 39,073,488 84 1,723,180 97 3,561,170 96 924,485 50 45,282,326 27	\$ cts. 46,018,879 56 1,799,887 80 4,143,837 52 993,613 63 52,956,218 51

It will be observed that there has been a steady growth in the earnings from the carrying of mails and express matter.

Owing to the adoption of entirely new methods of accounting in 1907, it is not practicable to carry comparisons with respect to carnings back of that year. The amounts credited to the several sources of revenue in preceding years, and the ratio they bore to the total, are shown in the following table:—

Year.	Passengers.	Per cent.	Freight.	Per cent.	Mail and Express.	Per cent.	Other Sources.	Per cent.	Total
Year.  1875	\$ 6,410,934 6,254,866 6,458,493 6,386,325 6,459,598 7,076,339 8,223,254 10,018,477 10,538,110 11,204,036 10,559,796 10,261,697 12,744,636 13,242,708 13,731,768 14,286,408	32.92 32.25 34.46 31.12 32.41 30.03 31.30.03 31.69 33.70 30.73 30.55 30.22 31.41 29.31 29.31 29.31 29.31 29.31 29.64 28.61 29.12 31.18 29.42 20.43 20.	Freight.  \$ 12,073,570 12,211,158 11,351,264 13,129,191 12,509,093 15,506,935 18,666,982 17,729,945 21,320,208 20,763,243 24,581,047 26,410,084 26,671,049 30,548,645 33,230,123 32,935,028 29,921,545,490 32,368,082 29,545,490 33,528,102 38,508,175 40,101,036						Total \$ 19,470,539 19,358,084 18,742,053 20,520,078 19,925,066 23,561,447 27,987,508 29,027,789 33,244,586 33,421,760 33,389,381 38,841,609 42,159,152 42,149,615 46,843,826 48,192,099 51,685,768 52,042,396 49,552,528 46,785,486 50,545,569 50,545,569 50,715,105 50,715,105 60,243,784
1900. 1901. 1902. 1903. 1904. 1905. 1906.	18,581,452 19,396,302 22,600,090 24,862,109 26,901,831 28,959,649 33,392,188	26·26 26·60 27·01 25·88 26·84 27·20	45,643,699 46,665,103 53,986,672 63,089,448 64,673,919 68,203,320 81,433,115	64·52 64·01 64,52 65·67 64·53 64·13 64·97	3,012,486 3,105,457 3,273,302 3,396,145 4,031,662 3,961,769 4,510,649	4·25 4·25 3·91 3·53 4·02 3·07 3·59	3,502,632 3,731,885 3,806,437 4,716,823 4,612,022 5,342,459 5,986,912	4.95 5.12 4.54 4.91 4.61 5.01 4.77	70,740,270 72,898,749 83,666,503 96,064,526 100,219,436 106,467,198 125,322,865

#### OPERATING EXPENSES.

The operating expenses for 1910 were \$120.405,440.42, as against \$104,600,084.43 in 1909. This increase of \$16,805,355.99 was equal to 15.1 per cent.

The operating expenses represented \$4,868.60 per mile of line—an increase of \$529.07 over the preceding year.

Setting down the gross earnings and operating expenses perc mile side by side, the result for the past four years is as follows:—

	Gross earnings per mile.	Operating expenses per mile.	Net earnings per mile.
1907	\$ cts.	\$ cts.	\$ cts.
	6,535 64	4,620 90	1,914 73
	6,397 21	4,673 30	1,724 90
	6,017 89	4,339 53	1,678 40
	7,033 93	4,868 60	2,165 83

The cost of running a train one mile—which is ascertained by dividing the total train mileage into the operating expenses—was \$1.409.

Again adopting parallel columns for purposes of convenient comparison, the carnings per train mile, and operating expenses per train mile, since 1899, have been as follows:—

	Earnings per train mile.	Expenses per train mile.
	8	\$
99	1 - 192	0.779
00.,	1.282	0.864
01,	1,366	0.944
)2,,	1 • 501	1.028
)3	1 • 591	1 117
)4	1.634	1.216
)5	1.614	1.213
06	1.723	1 · 198
97.	1.953	1.381
08	1 869	1.364
99	1.816	1,309
0	2.036	1.409

It will be seen that while the earnings per train mile have increased 70.8 per cent during the past twelve years, the cost of running a train one mile has, within the same period, increased 80.8 per cent.

The distribution of operating expenses in 1910 and the preceding year was as follows:—

Operating Expenses.	1909.	Per cent.	1910.	Per cent.
Way and structures. Equipment Traffic expenses Transportation General expenses.	21,510,303 59 3,798,824 57 54,284,587 41	$\begin{array}{c} 20 \cdot 22 \\ 20 \cdot 56 \\ 3 \cdot 63 \\ 51 \cdot 89 \\ 3 \cdot 70 \end{array}$	\$ cts. 27,035,603 46 26,002,301 30 4,366,176 92 58,928,170 74 4,073,188 00	22.45 21.59 3.63 48.94 3.39

The above figures show quite clearly that the expenditure for the physical up-keep of railways was increased during 1910. The outlay on maintenance of way and structures and equipment was larger by \$10,374,326.71, or 3.26 per cent, than in 1909. There was a reduction of 2.95 per cent in transportation, which rather points to economies in the hauling of traffic.

1 GEORGE V., A. 1911

A comparison in detail of operating expenses, as between 1909 and 1910, is here given:— .

Operating Expenses.	1909.		1910.		
	Amount.	Per cent.	Amount.	Per cent	
Maintenance of Way and Structure—	\$ cts.		\$ ets.		
Superintendence. Ballast.	759,240 98	.72	839,925 47	.70	
Ties.	759,240 98 198,796 80 2,678,384 80	·19 2·56	415,078 44 3,436,727 46	9.0	
Rails.	1 2/12 171 77	1.99	1,753,740 37	1.4	
Other track material	1,084,342 40	1.03 S.09	1,141,231 29	9.70	
Rails. Other track material. Roadway and track. Removal of snow and ice.	1,084,342 40 8,469,429 03 1,139,937 37 18,413 27	1.08	1,753,740 37 1,141,231 29 11,683,918 50 968,916 50 17,528 99	9.7	
I unitels	18,413 27	•01	17,528 99	• 1	
Bridges, trestles and culverts.  Over and under grade erossings.				1.70	
Grade crossings, fences, &c. Snow fences and sheds	37,179 87 528,111 60 91,538 47 131,419 79	•49	31,097 05 614,400 97 81.225 86	• 4	
Snow fences and sheds	91,538 47	· 08 · 12	81.225 S6 155,668 13	• 0	
Telegraph and telephone lines	246,934 48	•23	438, 160 47	•3	
Electric power transmission. Buildings, fixtures and grounds. Docks and wharfs Roadway tools and supplies.	4,646 36	• 00	116 295 49	•0	
Docks and wharfs	2,241,319 79 187,879 64	2·14 ·17	167,519,61	2.0	
Roadway tools and supplies	187,879 64 238,798 60 42,563 21	•21	2,461,761 72 167,519 61 267,462 06 66,233 81	• 2	
Injuries to persons Stationery and printing	$\begin{array}{r} 42,563 \ 21 \\ 40,519 \ 73 \end{array}$	• 04	66,233 81 47,019 92	•0.	
Other expenses	25,741,90 32,984 57	• 02	19,439 05	• 0	
Maintaining joint tracks, yards, &c., net balance	32,984 57	• 03	120,340 85	• 1	
Superintendence	497,292 54	. 47	565,442 79	• 4	
Steam locomotives, repairs	497,292 54 9,427,704 22	9.01	10,876,301 12	9.0	
Steam locomotives, renewals.	411,781 23 11,060 55	·04 ·01	585,978 33	• 4	
Electric locomotives, repairs. Passenger train cars, repairs. Passenger train cars, renewals.	2,595,472 23 158,959 43		3,486,546 88	2.8	
Freight train cars, repairs	158,959 43 5,893,635 61	15 5.63	229,517 21 7,243,600 61	6·0	
Ereighi frain care renewale	879 717 84	-84	1,001,559 92	• 8	
Work equipment, repairs. Work equipment renewals. Floating equipment, repairs. Shop machinery and tools.	451,543 08 87,618 41 44,111 84 761,738 82	· 43 · 08	698.592.58	• 5	
Floating equipment, repairs	44,111 84	.04	141,530 79 137,694 15	• 1	
Shop machinery and tools	761,738 82	•73	777,666 28	.6	
Injuries to persons.	7.119 51 33,614 04	•00	41.122 58	•0	
Stationery and printing.	64.883 49	• 06	71,196 77 93,254 29	• 0	
Maintaining joint equipment at terminals—Cr	121,201 13 4,298 56	·11 ·00	93,254 29	•0	
Power plant equipment Injuries to persons. Stationery and printing Other expenses.  Maintaining joint equipment at terminals—Cr. Equipment loaned and borrowed—Dr.	60,653 23	.05	41,117 49	• 0	
	789,829 20	.75	972 124 66	.7	
Superintendence. Outside agencies. Advertising.	1,630,331 55	1.55	873,134 66 1,980,700 23 804,392 81	1.6	
Advertising	1,630,331 55 698,539 25 74,397 04	• 66	804,392 81	• 6	
Traffic associations. Fast freight line.			83,673 99 224,655 69	•1	
Fast freight line. Industrial and immigration bureaus.	18,856 06 278,799 24 4,787 14	•02	36,954 96 356,373 61 6,290 97	• 0	
Stationery and printing. Other expenses.	278,799 24 4.787 14	•26	356,373 61 6.290 97	.0	
ransportation expenses—					
Superintendence	1,258,246 56	$1.20 \\ .76$	1,327,856 06 796,991 87	$1 \cdot 1 \cdot 6$	
Despatching trains. Station employees. Weighing and car service association.	794,148 07 7,144,573 81	6.83	8,315,042 55	6.9	
Weighing and car service association	7,144,573 81 46,049 36 19,909 99	• 0.1	8,315,042 55 56,701 82 50,177 08	10	
Coal and ore docks	798,021 05	• 76		• 0	
Yardmasters and their clerks. Yard eonductors and brakemen. Yard, switch and signal tenders. Yard supplies and expenses.	374.334 16	•35	405,805 05 1,849,942 79 193,013 69 57,503 26 1,299,915 93	.3	
Yard, switch and signal tenders.	1,533,070 52 183,210 94	1·46 ·17	1,849,942 79	1 · 5	
Yard supplies and expenses.	71.682.94	• 06	57,503 26	•0	
Yard enginemen	1,144,827 42 337,421 60	1·09 ·32		1.0	
Fuel for yard locomotives.	1,433,354 45	1.37	377,954 92 1,737,575 56	1.4	
Water for yard locomotives	1,433,354 45 80,869 73	• 07	86,510 94	• 03	
Yard enginemen Engine house expenses—yard. Fuel for yard locomotives. Water for yard locomotives. Lubricants for yard locomotives. Other supplies for yard locomotives.	31,159 05 34,274 79	•03	86,510 94 32,057 60 40,807,38	• 03	
Operating joint yards, &c., balance—Dr	424,953 72	•40	477,543 27	• 3	

	1907.	Per cent.	1908.	Per cent
	8 ets.		s ets.	
Maintenance of ways and structures—				
Repairs of roadway	11,160,086 67	$\frac{11.79}{1.27}$	10,640,542 68	$9 \cdot 9 \cdot 1 \cdot 4$
Renewals of rails	1,205,088 24 2,230,575 56	2.35	1,604,594 76 2,204,083 47	2.0
Repairs and renewals—bridges and culverts	1,408,552 02	1.48	1,465,753 45	1.3
" fences, crossings, &c	481,129 18	• 50	519,671 89	.4
" " buildings, &c docks and wharfs	2,141,109 98 103,280 37	2·26 ·10	2,690,91590 $167,01745$	2.5
" telegraph	265, 183 58	.28	294,301 15	.2
Stationery and printing	30,599 20	.03	43,924 32	.0
Other expenses	78,663 70	.08	1,122,793 11	1.0
Maintenance of equipment— Superintendence	591,196 08	• 62	621,032 61	• 5
Repairs and renewals of locomotives	7,999,802 52	8 · 45	8,008,613 01	7.4
passenger cars	2.473.908 84	2.61	2,723,846 82	2.5
" " freight cars	6,933,574 61 146,148 39	7·32 ·15	6,855,843 98 608,109 17	6.4
" " marine equipment	33,221 35	.03	52,181 21	• 0.
" shop machinery and tools	738,833 13	• 78	779,160 38	. 7
Stationery and printing	74,466 22	·07	77,384 68 523,535 96	• 0
Other expenses	815,751 04	•00	020,000 90	+
Superintendence	1,611,297 91	1.70	1,956,260 03	1.8
Engine and roundhouse men	7,814,573 02	8.25	9,471,240 67	8.8.
Fuel for locomotives	15,137,504 48 656,730 03	15·99 ·69	17,718,468 24 764,790 58	16.5
Oil, tallow and waste for locomotives	409,397 18	• 43	383,670 36	• 30
Other supplies for locomotives	195,970 04	• 20	313,146 02	. 29
Train service. Train supplies and expenses.	6,228,136 56 1,873,515 88	$6.58 \\ 1.97$	8,155,855 59 2,136,581 33	7·6 2·0
Switchmen, flagmen, &c	2,013,294 16	2.12	1,690,242 28	1.5
Telegraph expenses	2,562,478 44	2.70	1,757,495 05	1.6
Station service	5,634,176 10	5·95 ·71	6,748,608 03	6·3
Station supplies	671,972 51 114,516 96	.12	765,240 87 319,186 77	30
Car mileage—balance	1,156,891 46	1.22	1,467,775 90 115,250 52	1.3
Hire of equipment—balance	106,008 61	• 11	115,250 52	. 1
Loss and damage. Injuries to persons.	892,937 26 642,248 43	· 94 · 67	1,232,518 70 758,011 23	1 · 1
Clearing wrecks.	426,784 63	• 45	372 627 40	• 3
Operating marine equipment	918,769 17	• 97	1,138,272 64	1.0
Advertising	451,673 54	1.24	571,387 92 1,500,272 23	$1 \cdot 4$
Outside agencies. Commissions.	1,180,134 05 77,509 43	.08	365,588 35	.3
Stock yards and elevators	77,509 43 185,304 78	• 19	171,887 17	• 1
Rents for tracks, terminals, &c	542,199 81	• 57	1,333,401 74	1.2
Rents for buildings, &c	202,031 61 603,426 93	· 21 · 63	135,834 45 740,851 59	· 1
Other expenses	236,885 82	25	295,729 67	. 2
General expenses—				
Salaries of general officers	723,956 74	· 76	775,732 94 1.085,738 37	1.0
Salaries of clerks, &c	918,157 19 195,204 97	26	237,571 05	•2
Insurance	509,547 71	. 53	615,638 68	• 5
Law expenses,	396,383 18	• 41	445,076 69	• 4
Stationery and printingOther expenses	$\begin{array}{c} 163,863 & 19 \\ 265,972 & 77 \end{array}$	·17	161,271 64 386,499 27	· 1.
Other expenses,	200,012 11	- 28	000,400 21	, 31

Owing to a change in classification, the details of operating expenses for 1907 and 1908 cannot be compared with the figures for 1909 and 1910: but the following statement will enable comparisons to be made in many essential items:—

	1909.		1910.	
	Amount.	Per cent.	Amount.	Per cent.
Transportation expenses—  Motormen. Road enginemen Engine house expenses—road. Fuel for road locomotives. Water for road locomotives. Lubricants for road locomotives. Other supplies. Operating power plant. Road trainmen. Train supplies and expenses. Interlockers, block and other signals—operation of. Crossing flagmen and gatemen. Drawbridge operation. Clearing wrecks. Telegraph and telephone—operation. Operating floating equipment. Express service. Stationery and printing. Other expenses. Loss and damage—freight.  "baggage. Damage to property. "stock on right of way. Injuries to persons. Operating joint tracks—Dr. General expenses— Salaries and expenses of general offices. "clerks and attendants. General office supplies and expenses.	\$ cts. 10,599 40 6,305,369 08 2,075,177 82 16,111,095 45 746,594 70 245,976 65 287,462 54 28,515 15 6,584,565 63 2,201,549 18 223,370 27 117,726 84 37,313 04 330,212 27 4331,446 35 6,532 66 479,151 53 238,914 58 1,004,774 74 21,973 64 163,483 71 59,626 02 657,011 14 76,728 69 739,028 29 1,126,730 58 227,906 50	011 6 · 022 1 · 98 15 · 40 1 · 71 2 · 23 2 · 27 6 · 29 2 · 10 2 · 11 0 · 31 1 · 01 2 · 10 0 · 46 6 · 02 1 · 96 6 · 02 1 · 05 6 · 63 0 · 07 1 · 06	\$ ets.  6,891,165 42 2,125,418 22 16,832,817 31 768,167 84 270,872 01 306,586 55 175 48 7,247,121 40 2,428,155 75 230,629 58 128,315 59 41,167 50 314,005 30 314,005 30 314,005 30 314,005 30 3172,429 79 575,269 34 270,420 72 885,688 58 15,007 36 172,429 79 57,281 26 658,205 05 88,462 03 754,158 00 1,197,850 01 193,026 52	5.72 1.77 13.97 6.63 225 25 000 6.01 1.94 .10 .03 .26 .19 .32 .00 .48 .22 .71 .01 .14 .05 .54 .07 .07 .08 .09 .09 .09 .09 .09 .09 .09 .09
Law expenses. Insurance. Relief department expenses. Pensions. Stationery and printing.	480,924 76 593,060 31 29,941 71 188,282 26 152,910 01	• 46 • 56 • 02 • 18 • 14	511,659 98 654,633 93 28,558 43 181,255 41 177,661 48	· 42 · 54 · 02 · 15 · 14
Other expenses  General administration joint tracks, &c.—Dr	296,749 50 18,370 48		360,756 97 13,626 58	

Following is a summary of some of the more important items relating to earnings and operating expenses:—

	1907.	1908.	1909.	1910.
	8	s	\$	8
Gross earnings. Net earnings. Gross earnings per mile. Net earnings per mile. Earnings per passenger.  ton.  passenger train mile.  freight train mile.  train mile, all trains.  Operating expenses.  per mile. Cost of running trains one mile.	$146,738,214\\42,989,537\\6,535\\64\\1,914\\73\\1\cdot 219\\1\cdot 472\\1\cdot 263\\2\cdot 069\\1\cdot 875\\103,748,672\\4,620\\90\\1\cdot 381$	146,918,313 39,614,171 6,397 21 1,724 90 1,175 1,486 1,228 2,008 1,791 107,304,143 4,672 30 1,364	145,056,336 40,456,251 6,017 89 1,678 40 1,195 1,432 1,150 2,041 1;816 104,600,084 4,339 53 1,309	$\begin{array}{c} 2,165,83\\ 1\cdot 282\\ 1\cdot 560\\ 1\cdot 277\\ 2\cdot 316\\ 2\cdot 036\\ 120,405,440,42\\ 4\cdot 868,60\\ \end{array}$

### EQUIPMENT.

Following is a statement with respect to equipment on June 30, 1910:—

	Number.	Increase.
Locomotives Cars in passenger service. Cars in freight service. Cars in company's service.	4,079 4,320 119,713 8,648	110 138 1,934 789

It will be seen there was a total of 132,681 cars in service. In addition, the returns show there were 71 locomotives and 1,729 cars under lease.

The growth of available equipment during the past four years, omitting cars in company's service, is shown in the following table:—

	1907.	1908.	1909.	1910.
Locomotives		3,872 115,709 4,026	3,969 117,779 4,192	4,079 119.713 4,320

The motive power has been assigned to the following services:-

Locomotives.	1907.	1908.	1909.	1910.
Passenger	$\begin{smallmatrix} 964 \\ 2,206 \\ 334 \end{smallmatrix}$	1,122	1,056	1,090
Freight.		2,392	2,539	2,601
Switching		358	374	38S

The cars in passenger service have been of the following classes:-

Cars in Passenger Service.	1907.	1908.	1909.	1910.
First class Second class. Combination. Emigrant. Dining. Parlour. Sleeping. Baggage, express and postal. Other.	$   \begin{array}{r}     105 \\     63 \\     212   \end{array} $	1,493 487 422 303 114 63 236 873 35	1,560 471 429 317 127 60 261 926 41	1,564 512 435 318 123 69 283 979 37
Total	3,642	4,026	4,192	4,320

The cars in freight service were divided, as to classes, as follows:-

Cars in Freight Service.	1907.	1908.	1909,	1910.
Box. Flat. Stock. Coal. Tank Refrigerator. Other.	68,149 20,477 4,817 10,358 132 1,917 1,557	72,863 21,759 5,047 11,616 197 2,423 1,804	74,477 21,188 5,518 11,721 197 2,466 2,212	75,983 20,769 5,528 12,680 195 2,539 2,019
Total	107,407	115,709	117,779	119,713

The 8,648 cars in company's service consisted of 89 officers' and pay, 2,645 gravel, 127 derrick, 1,895 caboose and 3,892 other cars.

The aggregate capacity of cars of the various classes in freight service is shown in the following statement:—

	1907. 190		008. 19		009.	19	1910.	
₩	Number	Capacity in tons.	Number.	Capacity in tons.	Number.	Capacity in tons.	Number.	Capacity in tons.
Box. Flat. Stock. Coal. Tank. Refrigerator. Other.	66,934 20,118 4,731 10,060 132 1,745 1,820	1,848,980 535,167 122,550 291,638 2,632 48,745 59,200	72,862 21,781 5,047 11,616 197 2,423 1,941	2,048,227 592,496 133,578 362,233 4,000 69,000 67,410	21,220 5,561 11,721 197 2,465	2,130,145 584,455 150,800 379,981 4,012 71,085 64,835	20,769 5,528 12,680 195 2,539	2,211,963 576,198 151,565 438,178 3,962 73,520 58,720
Total	105,540	2,908,903	115,867	3,277,394	117,916	3,385,313	119,713	3,514,106

As indicating the tendency toward heavier units in the handling of freight traffic, it may be pointed out that the average capacity of box cars in 1907 was 27.6 tons, as compared with 29.1 in 1910. The returns also make it clear that the tractive power of locomotives has been materially increased within the same period.

The available supply of rolling stock per 1.000 miles of line has been computed as follows:—

Per 1,000 miles of line.	1907.	1908.	1909.	1910.
Locomotives, Freight cars Passenger cars		169 5,039 175	165 4,887 174	165 4,840 174

The service performed by each freight car in 1910 was equivalent to the moving of 622 tons. This was better by 55 tons than the performance of 1909, and by 77 tons as compared with 1908. In this result is seen the effect of heavier units and the steady extension of double trackage.

Of the 132,681 cars of all classes, 125.831 were fitted with train brake, and 128,321 with automatic couplers.

### TRAIN, CAR AND LOCOMOTIVE MILEAGE.

The mileage of revenue trains in 1910 was \$5,409,241, as compared with 79,662,216 in 1909.

The mileage of non-revenue trains was 4.581.534. The special train mileage for the year amounted to 202,592.

Train mileage for the past four years has been classified as follows:-

	1907.	1908.	1909.	1910.
Passenger trains. Freight trains. Mixed trains. Special trains.	38,923,890 5,971,414	31,950,349 40,476,370 6,201,807	32,295,730 40,304,906 7,061,580	35,022,541 43,742,668 6,441,440 202,592
Total	75,115,765	78,637,526	79,662,216	85,409 ,241

The ratio of the different classes of train mileage is shown in the following summary:—

	1907.	1908.	1909.	1910.
Passenger trains. Freight trains. Mived trains. Special trains.	40·23 51·81 7·90	40·63 51·47 7·90	40·54 50·59 8·87	$   \begin{array}{r}     40 \cdot 00 \\     51 \cdot 21 \\     7 \cdot 54 \\                                   $

Following is a complete record of train mileage since 1875:—

Year.	Passenger	Freight	Mixed	Special	Total Train	Engine
I car.	Trains.	Trains.	Trains.	Trains.	Mileage.	Mileage.
75. 76. 77. 77. 78. 79. 80. 81. 82. 83. 84. 85. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 99.	5,206,353 5,837,461 6,271,980 6,225,327 6,987,919 7,312,168 8,298,957 15,074,991 1,455 9,214,131 10,838,993 11,859,681 12,900,483 14,362,487 14,987,647 15,237,093 15,859,978 16,542,860 15,332,276 15,846,645 17,237,974 19,305,603 20,093,378 20,092,098 19,115,472 21,104,036 22,095,705	10,910,181 9,616,148 11,403,517 9,981,786 6,510,636 10,775,380 15,163,634 15,638,013 16,123,387 15,710,630 16,382,553 15,914,127 17,997,819 20,651,834 20,739,391 22,428,249 23,592,370 24,399,014 23,299,776 121,423,496 23,299,776 23,299,760 23,299,760 24,899,000 26,868,366 26,922,348 24,662,966 22,388,369 24,891,813 28,881,484 28,278,310	1,775,316 3,462,334 7,068,450 4,157,292 2,099,487 2,357,393 10,951,424 4,254,595 4,729,681 5,182,557 4,539,906 4,763,318 5,179,506 5,058,210 4,812,361 4,812,361 4,812,361 5,305,214 5,803,673 5,389,915 5,351,181 4,947,877 4,514,424 5,199,481 9,592,862 9,734,007 9,446,781		17, 680, 178 18, 103, 628 19, 450, 813 19, 669, 447 20, 731, 689 22, 427, 449 27, 301, 306 27, 846, 411 44, 16, 092 29, 758, 676 30, 623, 689 30, 481, 086 33, 638, 748 37, 391, 206 38, 819, 380 41, 484, 385, 953 43, 770, 029 44, 500, 602 45, 780, 851 50, 688, 283 52, 215, 207 55, 177, 871 53, 349, 349 55, 729, 856 60, 382, 920 61, 312, 002	19,633,02 21,001,05 22,231,84 24,091,60 24,735,86 26,575,96 31,265,00 33,374,84 47,688,52 37,390,87 37,390,87 43,276,46 48,9,22 47,708,13 49,512,64 49,512,64 56,950,34 49,512,64 56,950,34 66,950,34 66,950,34 66,950,34 66,758,96 66,772,25 68,621,42 67,712,25 68,621,42 68,621,4
05 06 07	25,428,018 28,071,648 30,220,461	34,372,998 39,045,168 38,923,890	6,133,098 5,606,666 5,971,414		65,934,114 72,723,482 75,115,765	84,335,73 94,180,78 100,154,96
08 09	31,950,349 32,295,730	40,476,370 40,304,906	6,210,807		78,637,526 79,662,216	100,622,24 97,865,32

1 GEORGE V., A. 1911

The relationship of train mileage to traffic, and earnings therefrom, is shown in the following table:—

Year.	Freight Earnings.	Freight Train Mileage.	Number of Tons Carried.	Earnings per Freight Train Mile.	Average Earnings per ton Carried.
	S	Mileage.	Tons.	\$ ets.	S ets.
1875. 1876. 1877. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1904. 1904. 1906. 1906. 1906. 1907. 1908.	12,073,570 12,211,158 11,321,261 13,129,191 12,509,093 15,506,935 15,506,935 15,506,935 18,666,982 17,729,945 21,320,208 20,763,243 19,962,058 21,183,967 24,581,047 26,410,084 26,671,049 29,921,788 30,584,645 33,230,121 32,935,028 29,952,482 29,554,549 32,368,082 29,554,549 32,368,082 33,522,102 38,508,175 40,101,036 46,665,103 53,986,672 46,665,103 53,986,672 63,089,448 64,673,919 68,203,320 81,433,115 94,995,087 93,746,655 95,714,783	12, 473, 825 12, 266, 167 13, 178, 833 13, 444, 120 13, 579, 086 14, 932, 672 17, 263, 121 18, 013, 406 27, 074, 761 19, 965, 225 21, 112, 234 21, 096, 684 22, 537, 719 25, 415, 152 25, 918, 897 27, 486, 459 28, 411, 531 29, 211, 375 28, 525, 975 27, 227, 169 25, 329, 614 28, 653, 957 28, 542, 877 28, 542, 877 31, 382, 790 32, 121, 879 34, 255, 773 33, 233, 233, 233, 233 425, 820 34, 255, 820 38, 287, 215 30, 809, 126 40, 506, 096 44, 651, 834 44, 895, 304 46, 687, 177 47, 366, 436 50, 184, 108	5,670,837 6,331,757 6,850,76 7,883,472 8,348,810 9,938,858 12,065,323 13,575,787 13,266,255 13,712,269 14,659,271 15,670,460 16,365,335 17,172,759 17,928,626 20,787,469 21,753,021 22,189,923 22,033,599 20,721,116 21,524,421 24,266,825 25,300,331 28,785,903 31,211,753 35,946,183 36,999,371 42,376,527 47,373,417 48,097,519 50,893,957 57,966,713 63,866,135 63,071,167 66,842,258	• 988 • 995 • 859 • 977 • 921 1 • 038 1 • 081 • 984 • 787 1 • 039 • 946 1 • 004 1 • 009 1 • 039 1 • 029 1 • 075 1 • 138 1 • 155 1 • 101 1 • 166 1 • 130 1 • 174 1 • 138 1 • 155 1 • 101 1 • 168 1 • 138 1 • 159 1 • 108 1	2·129 1·928 1·650 1·665 1·498 1·560 1·547 1·305 1·607 1·514 1·371 1·351 1·537 1·487 1·489 1·404 1·502 1·496 1·446 1·372 1·333 1·324 1·269 1·261 1·273 1·340 1·486 1·486 1·486 1·486 1·486 1·486 1·496 1·

Car mileage for the past three years has been as follows:-

Car Mileage.	1908.	1909.	1910.
Loaded freight cars Empty freight cars Caboose cars	284,944,529	775,543,414 281,175,615 37,644,038	910,858,711 280,255,329 45,367,459
Total	1,033,869,349	1,094,363,067	1,236,481,499

The average number of loaded freight cars per train in 1910 was 18.15 and the average load per car was 17.13.

The aggregate locomotive mileage for the year was 106,019,475, as against 97,865,325 in 1909.

The locomotive mileage was distributed as follows:-

Class of Locomotive.	1907.	1908.	1909.	1910.	
Freight Passenger Mixed. Switching Special. Total.	Miles. 43,824,909 29,110,258 7,492,278 14,816,272 4,911,249 100,154,966	Miles. 42,291,082 30,504,171 7,410,971 14,941,179 5,474,838	Miles.  43,280,549 32,282,534 7,237,422 14,832,834 231,986 97,865,325	Miles. 47,239,088 34,758,088 8,211,350 15,581,077 229,872 106,019,475	

Locomotive mileage attaching to construction work was erroneously returned as 'special' in 1907 and 1908, but has been since omitted.

# FUEL CONSUMED BY LOCOMOTIVES.

The consumption of fuel by locomotives in 1910 amounted to 6,252,054 tons. Despite the fact that the mileage was considerably greater, this volume of fuel was actually 547,094 tons less than for the preceding year. The returns do not disclose any particular reason for this somewhat surprising result.

Following is a concise statement of the fuel consumed by the various classes of locomotives, together with the mileage:—

Class of Locomotive,	Со	AL.	Wo	000,	Total.	Miles, Run.
	Anthracite.	Bituminous.	Hard.	Soft.	Tons.	Miles, Run,
Freight . Passenger . Mixed . Switching . Special . Total .	Tons.  73 376 4,128 323 4,900	Tous.  3,585,221 1,628,383 383,009 617,025 9,051 6,222,689	Cords.  1,136 742 521 72 2,471	Cords.  22,255 14,405 2,418 5,817 23 44,918	3,597,541 1,636,454 388,693 620,303 9,063 6,252,054	8,211,350 15,581,077 229,872

Note.—One and one-half cords of hard wood and two cords of soft wood, calculated as one ton of coal.

A comparison of the consumption of fuel by the several classes of locomotives during the past four years gives the following result:—

Class of Locomotive,	1907.	1908.	1909,	1910.	
Freight Passenger Mixed Switching Construction. Total.	Tons. 3,194,510 1,331,178 303,549 557,576 223,141 5,608,954	Tons.  3,318,283 1,446,919 350,921 598,092 256,576  5,970,791	Tons. 3,833,010 1,834,700 410,800 743,977 9,621 6,832,108	Tons. 3,597,541 1,636,454 388,693 620,303 9,063 6,252,054	

The volume of fuel consumed, and the cost thereof, have been as follows since 1907:—

Year.	Tons.	Cost.
1907. 1908. 1909. 1910.	5,608,954 5,970,791 6,832,108 6,252,054	\$ 15,137,504 17,718,468 17,544,449 18,570,393

Of the above cost, in 1910, \$16,832,817 was charged to road locomotives and \$1,737,576 to yard locomotives.

The fuel consumed by each class of locomotive per 100 miles run, and the cost, are shown in the following statement:—

Class of Locomotive.	Fuel c	onsumed	per 100 m	iles.	Cost of Fuel per 100 miles.			
( Hes of Tacomotive.	1907.	1908.	1909.	1910.	1907.	1908.	1909.	1910.
Freight Passengers. Mixed. Switching. ('onstruction.	4.05	Tons.  7.84 4.74 4.73 4.00 4.69	Tons.  8.85 5.68 5.67 5.01 4.14	Tons.  7.62 4.71 4.73 3.98 3.94	\$ 19.61 12.29 10.89 10.11 12.21	\$ 23·20 14·03 14·00 11·84 13·88	\$ 22.65 14.54 14.51 12.82 10.59	\$ 22.48 13.89 13.95 11.74 11.62

### ACCIDENTS.

615 persons were killed and 2,139 injured by the railways of Canada in 1910. This was an increase of 110 in the number killed and a decrease of 47 in the number injured, as compared with 1909.

Of the above, 524 were killed and 1,441 injured as the result of the movement of trains, and 91 killed and 698 injured from other causes.

One passenger in every 598,243 was killed and one in every 132,943 injured from the movement of trains.

The record for the year, succinetly stated, was as follows:-

	Movemen	t of trains.	Non-movement of trains.			
	Killed.	Injured.	Killed.	Injured.		
Passengers	60 214 175	270 926 148	2 81	679		
Non-trespassers. Postal clerks, &c.	74 1	77 20		10		
Total	524	1,441	91	698		

Grand total: 615 killed and 2,139 injured.

Details with regard to accidents, by railways, will be found in Table No. 16.

Comparing the accidents resulting from the movement of trains during the past four years the figures are as follows:—

	Killed,				Injured.			
_	1907.	1908.	1909.	1910.	1907.	1908.	1909.	1910.
Passengers. Employees. Trespassers. Non-trespassers. Postal clerks, &c. Other persons.	70 249 195 70 3 11	28 224 156 22 16 3	36 182 190 67	60 214 175 74 1	352 1,126 125 88 7 454	345 1,793 120 59 3 27	281 897 95 89 25 17	270 926 148 77 20
Total	598	449	478	524	2,152	2,347	1,404	1,441

Causes—Accidents to Passengers,		Kil	led.		Injured.			
	1907.	1908.	1909.	1910.	1907.	1908.	1909.	1910.
Collisions. Derailments Parting of trains.	26 21	2 8	6	2 44	93 127 3	88 131 1	83 99	31 126 2
Falling from trains, &c.  Jumping on or off.  Struck at highways.  "stations,	$\begin{array}{c} 10 \\ 4 \\ 4 \end{array}$	6 6	11 14 1	38	36 38 7 3	20 50	57	28 43 1 4
" other points Other causes	3	1	2	1	44	49	25	33
Total	70	28	36	60	352	345	281	270

# Aeeidents to employees resulted from the following eauses:-

Causes—Accidents to Employees.		Kil	led,		Injured.			
	1907.	1908.	1909.	1910.	1907.	1908.	1909.	1910.
Coupling or uncoupling Collisions, Detailments	34 46 12	20 25 15	18 40 15	17 19 47	141 135 56	183 80 60	125 86 65	139 56 58
Parting of trains Locomotives or cars breaking down Falling from trains or cars	1 1 32	1 1 1 32	1 28	23	16 6 186	11 16 185	9 6 142	6 19 165
Jumping on or off	85 2	$\begin{array}{c} 8 \\ 81 \\ 3 \end{array}$	9 53	$\begin{bmatrix} 24 \\ 62 \\ 1 \end{bmatrix}$	66 130 13	108 116 14	95 88 11	98 78 25
Other causes.	28	$\frac{16}{224}$	182	21 214	377	340 1,113	897	282 926

# The foregoing aecidents were distributed among employees as follows:-

Employees.	Killed.				Injured.			
Employees.	1907.	1908,	1909.	1910.	1907.	1908.	1909.	1910.
Trainmen. Trackmen. Switch tenders, watchmen, &c. Stationmen. Shopmen. Telegraph employees Other employees.	149 53 7 3 9	109 36 11 4 11 2 51	413 37 3 2 7	103 70 9 2 4	791 104 47 3 16 3 167	790 307 40 66 284 4 312	693 71 27 10 16 3 77	610 136 25 6 41 3 105
Total	249	224	182	214	1,121	1,793	897	926

During the past year one trainman in every 199 was killed and one in every 33 injured.

One trackman in every 550 was killed in 1910 and one in every 98 injured.

It would seem, however, that the vocation of switch tender was relatively the most hazardous in 1910, since one of that class to every 181 employed during the year was killed and one in every 65 injured.

Accidents from causes other than the movement of trains, locomotives or cars, occurred to the following classes:—Passengers, 2 killed, 9 injured; stationmen, 1 killed, 68 injured; shopmen, 1 killed, 218 injured; trackmen, 56 killed, 169 injured; other employees, 23 killed, 224 injured; and other persons, 8 killed and 10 injured.

### ACCIDENTS AT HIGHWAY CROSSINGS.

Special care was taken during the year to secure further data with respect to accidents at highway crossings, and the figures thus gathered are added to those for the two preceding years:—

Accidents at Highway Crossings.		KILLED.		Injured.			
Accidents at Highway Clossings.	1908.	1909.	1910.	1908.	1909.	1910.	
Urban	30	33	28	35	41	45	
Rural	21	43	35	33	31	16	
Total	51	76	63	68	72	61	

The record in relation to railway accidents from the movement of trains since 1888 is as follows:—

	Passengers.		Empl	OYEES.	Оті	HERS.	То	TAL.	Passen	GERS.
Years,	Killed	Injured.	Killed	Injured.	Killed	Injured.	Killed	Injured.	One killed in every	One injured in every
1888 1889 1890 1891 1892	20 37 11 13 14	70 103 52 105 43	89 83	619 637 682 582 697	104 84 124 118 109	86 135 101 131 139	213 210 218 193 233	775 875 835 818 879	534,931 328,408 1,165,569 1,017,120 966,672	152,837 117,971 246,562 125,929 314,730
1893. 1894. 1895. 1896.	11 12 9 11 7	57 64 47 62 70	72 67 51 46 76	331 521 489 446 579	133 132 127 104 130	120 107 122 111 158	$\frac{161}{213}$	708 694 658 619 807	1,238,002 1,205,208 1,554,175 1,346,400 2,310,191	238,912 225,976 297,608 238,877 231,019
1898. 1899. 1900. 1901. 1902.	5 20 7 16 19	72 119 131 134 177	146	862 882 941 970 930	167 145 195 183 165	163 184 245 213 221	284 325 317 330	1,097 1,185 1,303 1,317 1,328	3,688,809 956,668 3,071,453 1,149,108 1,088,419 417,900	256,167 160,784 164,123 137,207 116,836
1903. 1904. 1905. 1906. 1907.	53 25 35 16 70	258 232 244 231 352	186 192 206 139 249	956 214 920 893 1,126	178 227 206 268	239 259 193 241 220		1,453 705 1,357 1,365 1,698	945,630 722,535 1,749,361 459,104	85,848 101,899 103,642 121,168 91,299
1908 1909 1910	28 36 60	345 281 270	224 182 214	1,113 897 926	197 260 250	209 226 245	449 478 524	2,347 1,404 1,441	1,215,893 907,869 598,243	98,681 $116,311$ $132,943$

## HIGHWAY CROSSINGS.

Inquiries were continued during the year with respect to highway crossings, and complete returns were again received. The object has been to definitely ascertain (1) the total number of such crossings, (2) the number protected, (3) how protected, and (4) the number of such protected or unprotected crossings in the country or in cities and towns.

The facts for 1909 and 1910 were as follows:-

			0 (	
	Protected Crossings.		Unprotected Crossings.	
	1909.	1910.	1909.	1910.
Urban	587	630	1,767	1,902
Rural	492	557	15,426	16,923
Total	1,079	1,187	17,193	18,825

It will be seen that there has been an appreciable increase during the year in the number of protected highway crossings.

The facts with regard to the various methods of protection are given in the following statement:—

. Crossings—How Protected.		09.	1910.	
		Urban.	Rural.	Urban.
By gates By overhead bridges By subways By bells By watchmen	34 190 213 39 16	153 110 166 77 101	28 220 229 64 16	133 125 171 83 118
Total	492	E87	557	630

It is encouraging to observe that a substantial increase has taken place in the number of crossings permaneutly protected—in fact, eliminated—by the construction of subways and overhead bridges. There was also during the year a material betterment in the number of highway intersections at which bells were installed.

### RAILWAY EMPLOYEES.

There were 123,768 employees in the service of railways in Canada on June 30, 1910—a decrease of 1,427 as compared with the returns of 1909.

In view of the fact that 1910 was a year of marked expansion in railway operations, the foregoing number of employees may create surprise. An explanation, however, is found in the method of computing numbers. Railways are required to make a return of the number of employees actually in service on June 30, and this has led to wide fluctuations. It is not a satisfactory plan; but it is perhaps the only one which could be adopted without casting a most burdeusome, difficult and expensive task ou reporting railways.

In 1910 there were 16,709 employees engaged in outside operations, to whom was paid during the year \$5,169,922.58 in wages.

A better index of the labour situation is to be found in the figures relating to cost. These apply to the whole year. For the past four years the record is as follows:—

Employees.	1907.	1908.	1909.	1910.
	8	\$	8	8
Salaries and wages	58,719,49	93 60,376,607	63,216,662	67,167,793

Here an ascending seale of cost is shown, representing an advance of 14.4 per cent within four years; and in this calculation definite factors are being dealt with applicable to the whole year, rather than those which relate to a specific date.

The record of numbers and classes of employees is as follows:-

	1907.		1908.		1909.		1910.	
Railway Employees.	No.	Per 100 miles of line.	No.	Per 100 miles of line.	No.	Per 100 miles of line.	No.	Per 100 miles of line.
General officers. Other officers. General office clerks Station agents. Other stationmen. Enginemen. Firemen. Conductors. Other trainmen. Machinists. Carpenters. Other shopmen. Section foremen. Section foremen. Other trackmen. Switch tenders, &c. Telegraph operators. Employees—Floating equipment. All other employees.	336 461 4,214 2,536 11,829 4,351 4,760 2,911 8,261 2,486 3,215 12,579 3,903 30,614 2,987 5,426 20,779	2 2 19 11 53 19 21 13 36 11 14 56 17 13 24 93	318 526 4,795 2,522 8,908 3,868 4,206 4,206 2,719 7,507 2,759 3,190 11,873 4,017 20,686 7,273 17,320 106,404	1 2 21 11 139 17 18 12 33 12 14 52 17 8 8 12 17 87 8 12 17 87 8 17 8 17 8	328 574 5,967 2,624 10,739 4,104 4,330 2,831 8,178 3,294 3,377 13,858 4,216 28,401 1,624 2,899 9,324 18,527 125,195	1 2 25 11 45 17 18 12 34 14 14 14 15 7 7 17 118 7 2 39 77	372 718 6,835 2,879 12,578 4,419 4,885 3,323 7,946 2,935 4,348 15,387 4,539 30,131 1,628 2,985 2	2 3 28 12 51 18 20 13 32 12 17 62 18 122 17 17 1

The average daily compensation of employees, by classes, is shown in the following table:—

Employees.	1907.	1908.	1909.	1910.
	s	8	\$	\$
General officers. Other officers. General office clerks. Station agents Other stationmen Enginemen Firemen Conductors. Other trainmen Machinists. Carpenters. Other shopmen. Section foremen Other trackmen Switch tenders, &c. Telegraph operators. Employees—floating equipment All other employces.	4 11 1 70 1 91 1 56 3 89 2 42 3 20 1 92 2 41 2 06 1 99 2 06 1 84 1 88 1 18	11 59 4 63 1 81 2 04 1 71 4 53 2 50 3 30 2 06 2 68 2 19 2 16 2 25 1 57 1 81 2 07 1 10 1 87	11 73 4 59 1 81 2 09 1 65 4 13 2 52 3 31 2 13 2 23 2 23 2 23 2 23 2 20 2 20 2 09 1 26 1 95	10 72 4 73 1 94 2 16 1 65 4 12 2 53 3 30 2 12 4 40 2 52 2 19 2 18 1 58 1 58 1 58 2 20 2 19 1 95

The salaries and wages paid during the past four years were distributed in operating expenses as follows:—

	1907,	1908.	1909.	1910.
Way and structures		\$ 14,715,572 13,008,104  28,479,096 4,173,835  60,386,607	\$ 14,249,186 14,623,930 5,353,607 24,656,585 4,333,354 63,216,662	\$ 16,502,902 14,775,782 1,313,980 32,091,952 2,483,177 67,167,793

### TAXATION.

The tax bill of Canadian railways amounted to \$1,792,648.83 in 1910, an increase of \$211,312.24 as compared with the preceding year.

Following is a statement, by provinces, of the railway taxes collected during the years 1909 and 1910:—

Provinces.	1909.	1910.
	\$ ets.	\$ ets.
Nova Scotia	926 54	16,762 66
New Brunswick Prince Edward Island.	782 79	1,298 35
	100 00	100 00
Quebec	362,974 16	337,490 05
Ontario	764,620 56	747,004 78
Manitoba	128,082 84   98,038 39	92,476 48
Alberta Saskatchewan	48,869 56	87,423 93 161,575 45
British Columbia.	154,025 07	220,687 32
Yukon,	6.020 90	5,896 64
Outside operations	16,895 78	121,933 17
Total	1 581 226 50	1.792.648 83

Following are the statutory conditions governing the taxation of railways in the various provinces:—

Ontario.—Section 6 of 'An Act to Supplement the Revenues of the Crown,' assented on April 14 last, provides:

'Every eompany owning, operating or using a railway shall pay a tax of \$60 per mile for one track, and, where the line eonsists of two or more tracks, of \$20 per mile for each additional track owned, operated or used in any organized county; and of \$40 per mile for one track, and, where the line consists of two or more tracks, of \$10 per mile for each additional track, in territory without county organization: provided that a company owning, operating or using a railway which, either by itself or in conjunction with any other railway leased by it or to which it is leased or with which it is amalgamated or together with which it forms one system does not exceed 150 miles in length from terminus to terminus, shall in lieu of the said tax pay a tax of \$15 per mile for one track and, where the line consists of two or more tracks, of \$5 per mile for each additional track, and where the railway or system does not exceed 30 miles in length from terminus to terminus a tax of \$10 per mile for one track and \$5 per mile for each additional track.

'Every company owning, operating or using a street railway or part thereof in a city for carrying passengers shall pay for each mile of track within the city a tax of: (a) \$20 when such mileage does not exceed 20 miles; (b) \$35 when such mileage exceeds 20 miles but does not exceed 30 miles; (c) \$45 when such mileage exceeds 30 miles but does not exceed 50 miles, and (d) \$60 when such mileage exceeds 50 miles. The mileage shall be computed on the single track, each mile of double track being counted as two miles of single track; but in calculating the mileage switches or sidings, tracks into car stables or car sheds, Y's and curves laid at street corners and portions of track not in general use for passenger traffic shall not be counted.'

The municipalities also impose taxes on railways in Ontario.

Quebec.—Section 8 of 'The Act to impose taxes on Commercial Corporations, &c.,' reads:

'Every railway company owning, operating or using in whole or in part in this province, a steam or electric railway, shall pay upon each main line thirty dollars per mile for one track, and, where the line consists of two or more tracks, fifteen dollars per mile for each additional track owned, operated or used as aforesaid; upon each branch line twenty dollars per mile for one track, and, where the line consists of two or more tracks, teu dollars per mile for each additional track.'

A municipal tax also exists in the province of Quebec.

Nova Scotia and New Brunswick.—In neither of these provinces are railways subject to any form of taxation.

Manitoba.—Section 5 of the Act relating to Railway Taxation enacts:

'In order to supplement the Revenue of the Crown in the province of Manitoba every railroad company at present owning or operating, or which may hereafter own or operate, and line or lines of railroad within the said province shall annually pay to the Crown in the province a part or portion of the gross earnings of such railway companies in the province of Manitoba as follows:—In and for the year 1900, 1901 and 1902, two per cent of the gross earnings of such companies. In each and every year after the year 1902 such sums as may be determined by the Lieutenant Governor in Council not exceeding, however, three per cent of the gross earnings of the companies.'

Saskatchewan.—Section 3 of the 'Act respecting the Taxation of the Earnings of Railway Companies' provides as follows:—

'Every railway company at present owning or operating or which may hereafter own or operate any line or lines of railway situated or partly situated within Saskatchewan shall during the year one thousand nine hundred and eight and annually thereafter pay to the Crown in this province such part or portion of its gross earnings derived from the said line or lines of railway or such portions thereof as are within Saskatchewan as may be determined by the Lieutenant Governor in Council not to exceed the following:—(a) In respect of that part of the railway or branch of railway in operation for seven years or more three per cent of the gross earnings derived from the operation of the same; (b) In respect of that part of the railway or branch of railway in operation for five years or more and less than seven years one and one-half per cent of such gross earnings: Provided that no tax shall be payable hereunder on the gross earnings of any railway or branch thereof until such railway or branch has been in operation for five years.'

Alberta.—Railways are taxed on a rate of one per cent upon their actual value. Pending an inquiry as to the facts in that regard, the value is assumed by law to be \$20,000 per mile. On that basis taxes have been levied during the past two years.

### ELECTRIC RAILWAYS.

The year 1910 was marked by progress in electric railway interests. Mileage, eapital, earnings and traffic showed substantial increases.

The number of reporting corporations increased during the year from 48 to 52. One or two additions came from the western provinces, where the development of centres of population is creating a growing need for local transportation facilities.

The elassifications and schedules which were made effective in 1908 are now thoroughly understood by accountants, and may be counted upon to produce satisfactory and helpful statistics as the work proceeds.

It is regretted that a report from Edmonton was not received this year. The new line in that city has been in operation since 1909.

## MILEAGE.

A comparison of mileage for 1910 with the returns for 1909 gives the following result:—

Length of Tracks.	1909.	1910.
t Trans.	Miles.	Miles.
Length of first main track. Length of second main track. Total length of main track. Length of sidings and turnouts. Total, computed as single track.	988 · 97 215 · 05 1 · 204 · 02 83 · 62 1 · 287 · 65	1,049·07 242·39 1,291·46 91·39 1,382·85

It will be seen that there was an addition of 60·10 miles of first main track during the year, and of 95·20 miles of total track.

The record of first main track mileage since 1901 is as follow:—

1901	674	.58*
1902		• 59
1903		
1904		
	793	
1002		
	988	
	1.047	

<sup>\*</sup>Improperly included double track and sidings.

### CAPITAL LIABILITY.

The capital obligations of electric railway companies increased from \$91,604,989 in 1909 to \$102,044,979 in 1910. The expansion in this respect since 1907 amounts to \$27,386,157.

Following is a statement of the facts for the past four years:—

			1	
	1907.	1908.	1909.	1910.
	\$	\$	\$	\$
StocksFunded debt	43.491.746 31.166,976	50,295,266 37,114,619	51,946,433 39,658,556	58,653,826 43,391,153
Total	74.658.722	87,409,885	91,604,989	102,044,979

The subsidies received from governments and municipalities amount to \$493,346. This sum is not included in the above figures, for the reason it could not properly be regarded as a liability.

## EARNINGS AND OPERATING EXPENSES.

The gross earnings for 1910 were \$17,100,789.48, an increase of \$2,275,852.93 as compared with 1909.

The sources of income for 1910 were as follow:-

Car Earnings— Passengers. Freight. Mail and express Other car earnings.	\$ cts, 16,145,994 72 575,536 84 68,604 11 51,241 07
Total car earnings.	16,821,376 74
Miscellaneous Earnings—  Advertising. Rent of buildings, &c. Rent of tracks. Rent of equipment. Sale of power. Other earnings.	\$ cts, 45,659 15 18,465 22 17,302 28 17,045 21 29,217 55 151,723 33
Total miscellaneous earnings	279,412 74
Gross earnings from operation	\$17,100789.48

Following is a comparison of gross car earnings since 1907:-

		1		
Gross Car Earnings.	1907.	1908.	1909.	1910.
	\$	s	s	s
Passenger Freight Mails and express Other earnings	12,013,421 344,367 41,951 233,190	13,233,724 346,021 54,883 372,421	14,080,755 386,092 110,452 34,185	16,125,944 72 575,536 84 68,604 11 51,241 07
Total	12,630,430	14,007,049	14,611,484	16,821,376 74

In the preparation of a balance sheet for the year it is impracticable to separate certain accounts and thus make the figures agree closely with those given in the foregoing statement. The difficulty arises chiefly with those companies which operate jointly electric railway and electric lighting plants, and in connection with the sale of power, &c. Bearing this in mind, the following balance sheet will be understood:—

	\$	cts.	8	cts.
Earnings and Income— Gross earnings from operation Miscellaneous income			17,076,12 1,382,69	
Operating expenses	 10,121,780	67	18,458,81	5 77
Taxes Interest on funded debt	 1,311,953 1,449,152 156,546	48		
Interest, floating debt Other deductions	 36,106		13,075,53	9 93
Net income	 		5,383,27	5 84

The direct difference between earnings and operating expenses was \$8,337,035.10, to which might properly be added \$1,544,892.65 as the aggregate of deficits returned by fourteen corporations. In other words, actual net earnings of \$9,572,315.31 were reduced by that sum.

A comparison of deductions from income for 1909 and 1910 gives the following result:—

	1909.	1910.
•	\$	\$
Taxes. Interest on funded debt. Interest on floating debt. Other deductions.		$\substack{1,311,953 \ 65 \\ 1,449,152 \ 48 \\ 156,546 \ 16 \\ 36,106 \ 97}$
Total	2,198,306 48	2,953,759 26

Operating expenses for the year aggregated \$10,139,070.39, and were distributed as follows:—

Mile and the state of	\$ ets.
Maintenance of way and structures,	497,895.05
* equipment	1,532,542 87
Operation of power plant	1,586,927 37
" cars	
General	1,406,913 49
Total	10,139,070 39

Operating expenses for 1910 were equal to 59.29 per cent of gross earnings, as against 59.93 in 1909.

Following is a comparison of operating expenses in detail for 1909 and 1910:-

	1909,	1910.
	S cts.	\$ cts
laintenance of way and structures—		
Track and roadway	386,646 54	590,363 2
Electric line	94,249 33	152,874 4
Buildings and fixtures	50,241 32	54,657 2
laintenance and equipment—	400 04	
Steam plant	18,008 61	38,305 9
Electric plant	36,682 74	45,148 1
Cars	405,497 36	692,276 3
Electric equipment of cars	321,050 88	481,301 8
Miscellaneous equipment	48,317 04	58,815 6
Miscellaneous shop expenses	39,608 67	202,591 5
ransportation—Operation of power plant—	107 015 10	170 000 0
Power plant wages	127,015 19 184,719 72	178,389 6
Fuel for power		271,410 3
Water for power	20,818 00 8,262 43	21,398 3 10,538 9
Miscellaneous supplies and expenses	26,124 49	17,916 3
Hired power	686,128 63	1,087,273 7
ransportation—Operation of cars—	000,120 00	1,001,010 1
Superintendence	130,475 58	192.567 €
Wages of conductors	1,181,244 60	1,749,916 7
Wages of motermen	1,150,002 77	1,697,096
Wages, miscellaneous car service employees	121,009 71	152,950 3
Wages, ear house employees	307,351 76	393.998 7
Car service supplies	53,713 15	94,486 1
Miscellaneous car service expenses.	75,940 59	183,526
Hired equipment	25,988 40	42,136 5
Cleaning and sanding track	26,703 64	65,200 3
Removal of snow and ice	100,154 28	238,881 5
Jeneral—	,	
Salaries of general officers	153,665 61	236,575 7
Salaries of clerks	154,213 54	202,712 9
Printing and stationery	28,157 11	33,634 3
Miscellaneous office expenses	32,422 53	44,336 1
Store expenses	20,133 95	33,841 1
Stable expenses	17,059 38	30,817 4
Advertising and attractions	55,343 96	47,411 0
Miscellaneous general expenses	151,399 58	133,752 3
Damages	201,877 48	342,120 2
Legal expenses—damages	19,147 15	8,784 3
Miscellaneous legal expenses	26,761 29	54,336 6
Rent of land and buildings	15,628 20	20,936 7
Rent of track and terminals	73,087 18	98,753 7
Insurance	85,235 41	118,930 S

#### PUBLIC SERVICE.

There were carried by electric railways during the year 360,964,876 passengers, to which might be added 99,227,824 transfer passengers, making a total of 460,192,700.

There were also 852,294 tons of freight hauled. The figures in this regard were not available in 1909 owing to an omission in the schedule; but, as compared with 1908, the freight traffic showed an increase of 119,819 tons.

The following statement shows the growth in passenger traffic since the year 1901:—

1901	120,9	34,656
1902	137,6	81,402
1903	155,6	62,812
1904	181,6	89,998
1905	203,4	67,317
1906	237,6	55,074
1907	273,9	99,404
1908		99,309
1909	314,0	26,671
1910	360,9	64,876

The conduct of the above traffic involved a car mileage of 65.249,166, of which 889,561 miles were attached to freight, mail and express. The total car mileage in 1909 was 60,152,846.

## EQUIPMENT.

The following comparison will show the additions made to equipment during the year 1910:—

	1909.	1910.
Passenger, closed.	1,689	1,795
Passenger, closed	1,017	994 337
Freight	152 20	282 25
" open " combination.  Freight. Mail, express and baggage. Combination, passenger and freight. Work. Snow ploughs.	7 85	87
Snow ploughs	54 90	62 97
Sweepers. Miscellaneous.	93	103
Total.	3,544	3,789

#### EMPLOYEES.

The number of employees grew from 10,557 in 1909 to 11,390 in 1910, an increase of 833.

The aggregate of salaries and wages paid during the year was 6,316,777.20, which was equivalent to 62.30 per cent of the total operating expenses.

Following was the distribution of employees, by divisions, in 1909 and 1910:-

	1909.	1910.
General administration— General officers	132 413	150 553
Maintenance— Superintendents Other employees	72 3,548	71 3,633
Transportation— Superintendents Other employees	100 6,292	102 6,881
Total	10,557	11,390

#### ACCIDENTS.

The return of accidents for the year showed 95 persons killed and 2,538 injured. This was an increase of 27 in the number killed and 399 in the number injured as compared with 1909.

The accidents in 1909 and 1910 occurred to the following classes of persons:-

	19	09,	19	10.
_	Killed,	Injured.	Killed.	Injured.
Passengers	11	1,303	14	1,595
Employees	7	218	13	227
Others	50	618	68	716
Total	68	2,139	95	2,538

## SUMMARIES.

The following digest of statistical data since 1901 will readily enable comparisons to be made:—

			ī		
	1901.	1902,	1903.	1904.	1905.
Total mileage. Paid up Capital. Gross earnings. Net earnings. Earnings—passenger traffic. "reight" "mail and express. "other sources. Total operating expenses. Maintenance of way and buildings. Cost of motive power. Maintenance of cars. General and operating charges. Total car mileage. Passengers carried Tons of freight carried	*674-58 \$39,076,018 \$5,768,283 \$2,333,120 \$5,529,687 \$95,082 \$33,135 \$110,377 \$3,435,162 \$310,892 \$502,101 \$322,700 \$2,299,468 31,750,754 120,934,656 287,926	557·59 \$41,593,063 6,486,438 2,683,583 6,195,915 127,917 15,952 146,652 3,802,855 445,837 541,087 353,891 2,462,038 35,833,841 135,681,402 266,182	759·36 \$47,096,45 7,233,677 2,760,819 6,888,409 164,188 20,276 160,803 4,472,858 481,236 777,201 666,602 2,607,817 38,028,529 155,662,812 371,286	766·50 \$50,399,188 8,453,609 3,127,092 8,082,373 182,143 30,738 158,353 5,326,516 606,146 1,377,199 659,213 2,683,957 42,066,124 181,689,998 400,161	9,357,125 3,438,931

<sup>\*</sup> Improperly included, double track and siding.

			1		
	1906.	1907.	1908.	1909.	1910.
Total mileage Paid up Capital. Gross earnings. Net earnings.—passenger traffic. ireight. imal and express. other sources. Total operating expenses. Maintenance of way and buildings. Cost of motive power. Maintenance of cars. General operating charges. Total car mileage. Passengers carried. Tons of freight earried.	\$63,857,967 \$10,966,871 \$4,291,834 \$10,438,000 \$288,105 \$35,041 \$205,724 \$6,675,037 \$608,767 \$1,242,075 \$894,460	814·52 73,567,795 12,63,430 4,971,624 12,013,421 344,367 41,951 7373,251 765,684 1,412,358 1,060,783 4,498,424 53,361,227 273,999,404 479,731	992·03 87,903,231 14,007,049 5,311,170 13,233,724 346,021 54,883 372,421 8,695,880 912,929 1,803,723 1,118,925 4,860,303 56,964,881 299,099,309 732,475	988 · 97 91 · 604 · 989 14 · 611 · 484 4 · 962 · 501 14 · 080 · 755 386 · 092 110 · 452 34 · 185 8 · 885 · 235 643 · 135 1 · 445 · 227 1 · 184 · 287 5 · 612 · 041 60 · 152 · 846 314 · 026 · 671	1,047·07 12,044,979 17,100,789 5,383,276 16,125,995 575,537 68,604 51,241 10,121,781 1,586,927 4,814,762 1,406,943 65,249,166 360,964,876 852,294

		KILLED.	ED.			INJURED.	RED.			PASSENGERS,	
Year,	Passengers	Passengers Pumployees.	Others.	Total.	Passengers	Passengers Employees.	Others.	Total.	Number carried.	Killed, one in every	Injured one in every
1901	es	m	11	15	158	58	86	314	120,931,656	40,311,552	255,137
1902	6	=	22	32	410	33	120	563	137,681,402	15,297,933	335,808
1903	10	1-	51	39	501	62	212	778	778 155,662,812	15,566,281	308,855
1904.	10	ಣ	40	553	208	61	272	814	814 181,689,998	18,168,999	357,657
1905	30	co	23	56	862	87	347	1,296	203,467,317	6,782,213	236,041
1906	11	C1	34	1.7	1,085	127	441	1,653	237,655,074	21,605,006	219,327
1907	27	È~	37	71	988	216	532	1,736	273,999,401	10,148,126	277,327
1908	18	9	43	29	1,156	188	539	1,883	1,883 299,099,309	16,616,628	258,736
1909	11	7	20	89	1,303	218	618	2,139	2,139 314,026,671	28,547,879	241,001
1910	14	13	89	95	1,595	227	716	2,538	360,961,876	25,783,205	226,310
			- Tanana					Control of the contro			

Detailed information with respect to the facts dealt with in these introductory observations will be found in tables forming the body of the subjoined report.

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

J. L. PAYNE,

Comptroller of Statistics.



# RAILWAY STATISTICS



TABLE 1.—Location of Steam Railways of the Dominion of Canada, to June 30, 1910.

No. and C. D. Character	Donald dear	Dista	NCE.
Name of Railway.	Description.	Miles,	Total.
Alberta Railway and Irrigation Co	From Lethbridge, Alberta, to Coutts, on International boundary, 4 ft. 8½ in. gauge	64 · 61	111 · 82
Albert Southern (abandoned)	Harvey Branch Junction to Alma, N.B Harvey Branch, Albert, to Harvey Bank, N.B	16:00 3:00	
Algoma Central and Hudson Bay	Sault Ste. Marie to Chippewa—Main line Branch—Michipicoten to Helen Mines Josephine Junction to Josephine Mine	69·35 10·29 10·00	19.00
Atlantic, Quebec and West-	Paspebiac to Newport		89·64 35·00
ern Baie des Chaleurs in Atlan- tic and Lake Superior BystemBay of Quinté Railway			100.00
Bedlington and Nelson	International boundary at Port Hill to Jct. Can. Pac. Ry. at Creston, and from Jct. with C.P.R. at Sirdar		89+37
Beersville Coal and Railway	to Kuscomok '		15:30
Co. (now North Shore) Brandon, Saskatchewan and Hudson Bay	From Adamsville to Mount Carlyle	• • • • • • • • • • • • • • • • • • • •	8.63
	Man		69:45 5:00
Buctouche and Moncton	White Pass to Whitehorse Spur, B.C., and Branch to Whitehorse.  Moncton. on Intercolonial Railway, to Buctouche, N.B.		90°32 32°00
North Western	Brockville to Westport, Ont		45 · 00 17 · 28
tem	City of Ottawa to Junction with Grand Trunk at Lacolle and U.S. boundary. Crosses the St. Lawrence at Coteau by bridge. Connects with Grand Trunk Railway at Coteau and Lacolle, and Ottawa to Depot Harbour, Lake Huron, near Parry Sound From Glen Robertson, on Canada Atlantic, to Hawkesbury, Ont.	22:24	396 · 41
tie (	bury, Ont. South Indian, on Canada Atlantic, to Rockland  Port Arthur to Rainy River. International boundary to Winnipeg. Beaver to E Innonton Branches—Stanley Junction to Gunflint Lake  "Carman Junction to Somerset  "Neepawa Junction to McCreary Junction Gilbert Plains Junction to Prince Albert. Sifton Junction to Winnipegosis Emerson to South Junction	286 '90 108 00 751 36 66 90 78 '60 70 '40 360 '60 21 '20 72 70	38 · 49

Table 1.—Showing Location of Railways, &c.—Continued.

		Dista	NCE.
Name of Railway.	Description.	Miles.	Total.
Canadian Northern—Can.	Branches—Rossburn Junction to Russell  "Greenway to Adelpha.  "Arizona Junction to Brandon Junction  "Brandon Junction to Carberry.  "Oak Point Junction to Oak Point.  "Hartney to Virden.  "Battleford to Battleford Junction  "Frandon to Regina  "Edmonton Junction to Mornville  "Edmonton to Stony Plains  "Oakland to Tobogan  "Thunderhill Junction to end of steel  "Dalmeny N. to end of steel	104 · 20 52 · 10 77 · 00 22 · 80 60 · 40 8 · 00 220 · 02 22 · 90 21 · 40 17 · 30 40 · 77 28 · 13	
Canada Coals and Railway Co., now Maritime Railway, Coal and Power Co. Canada Southern	Winnipeg to near Dundee Saskatoon to west end of steel Maccau Station, I.C.R., to Joggins Coal Mine. Main Line—Windsor, Ont., to Suspension Bridge Amherstburg Branch—Essex Centre to Amherstburg. St. Clair Branch—St. Clair Junction to Courtwright. Fort Erie Branch—Fort Erie to Welland Junction Erie aud Niagara Branch—Old Fort Erie to Niagara. Oil Springs Branch—Oil Springs to Oil City. Sarnia, Chatham and Erie—Oil City to Petrolia	8.70 127.38 226.18 16.83 62.63 17.50 30.60 5.50 7.00	2,675°12 15°00
Court Testern new includ	Leamington and St. Clair—Comber to Leamington	15.95	382:19
Canada Eastern, now included in Intercolonial Railway	Late Northern and Western of New Bruuswick Fredericton to Loggieville	125 00	
Canadian Pacific— Owned  Montreal and Western  Brockville and Ottawa Ry	Main Line—Moutreal to Vancouver Branches—Dunmore to Crowsnest  "Quebec to St. Martins Junction "Piles Junction to Grand Piles." Berthier Junction to Berthier  "Johette Junction to St. Félix "Ste. Thèrèse Junction to St. Jérome. "Ste. Thèrèse to St. Eustache. "St. Jérome to Labelle. "St. Lin Junction to St. Lin "Buckingham Stn. to Buckingham Village. "Carleton Junction to Brockville. "Sudbury to Sault St. Marie. "Sudbury to Copper Mines. "Dyment to Ottamine. "Molson to Lac du Bonnet. "McGregor to Varcoe. "Whittier Junction to Emerson. "Rugby Junction to Emerson. "Rugby Junction to Giuli. "Rugby Junction to Giuli. "Rugby Junction to Giuli. "Rugby Junction to Komarno. "Rudyard to Kaleida. "Souris Branch "Keumay to Estevan. "Glenboro' to Souris Deloraine to Napinka.	209 60 159 80 26 90 2 10 16 60 13 30 6 00 66 90 15 10 3 20 44 90 179 30 5 60 6 90 21 50 53 80 100 40 56 10 13 80 6 50 156 20 46 00 18 60 18 60 18 60 18 60 18 60 18 80 18 60 18	2,909.50
Lake Témiscamingue Colonization	North Portal to Pasqua	8:20 47:20 10:00 27:40	

Table 1.—Showing Location of Railways, &c.—Continued.

Name of Pullman	Description	Dista	NCE.
Name of Railway.	Description.	Miles.	Total.
Vanadian Pacific - Con.			
Lake Témiscamingue Conization		1:20	
omzacion	Three Forks to Sandon	4:30	
	Wood Bay to Windy Gates Cranbrook to Kimberly	32 40 19 10	
	Deloraine to Lyleton	37:40	
	" Kirkella to Hardisty	5:00 556:70	
	" Marysville Junction to Marysville " Crowsnest to Kootenay Landing	182:10	
	Selkirk Junction to Selkirk	0.90	
	Wolseley to Reston	122 40 ± 28:90	
	Bolton Junction to Romford	226:20 118:50	
	Stoughton to Forward	62:90	
	Kipp to Carmanguay	28:00 39:00	
			3,269 (
	Total mileage owned		6,17911
Lines leased	Atlantic and Northwest (in Canada)— South end Lachine Bridge to Maine boun-		
	dary, Que	1	
		200:70	
	St. Lawrence and Ottawa — Ottawa to Prescott, Ont	20.00	
	Ontario and Quebec —	58:30	
	Montreal (Windsor Sta.) to Toronto Jet 339:40 Mile End to Adirondack Jet		
	St. Luc Jct. to Western Jct 2:10		
	Toronto Jct. to Toronto (Union Station) 4 90 Leaside Jct	- 1	
	London to Windsor 112.60	474:30	
	Credit Valley— Toronto Junction to St. Thomas 116 90		
	Streetsville Junction to Melville Jct 31 (0)		
	Cataract to Elora	175.80	
	West Outario Pacific—Woodstock to London Toronto, Grey and Bruce—	26.70	
	Toronto Junction to Owen Sound 116 40		
	Orangeville Junction to Teeswater 67'80 Wingham Junction to Wingham 4 60		
	Mount Forest Tank to Mount Forest 1.20	190 00	
	Guelph Junction—		
	Guelph Junction on Credit Valley Ry. to Guelph	14.90	
	Montreal and Lake Maskmongé— St. Félix to St. Gabriel de Brandon	11 00	
	Montreal and Ottawa—		
	Vaudrenil to Jet. with Canada Atlantic 86:70 Rigaud to Pt. Fortune 6:80		
	Lindsay, Bobcaygeon and Pontypool—	93.20	
	Burketon Junction to Bobcaygeon	38:70	
	Hamilton Junction to Hamilton	2:70	

Table 1.—Showing Location of Railways, &c.—Continued.

		Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Canadian Pacific—Con. Leased lines	Cap de la Madeleine— From Maiu Line C. P. R., at Junction with Piles Branch to Cap de la Madeleine New Brunswick— Woodstock to Maine boundary		
	Newbury Junction to Gibson. 59·10 Aroostook Junction to Edmundston. 57·10  St. John and Maine— Vanceboro to St. John 90·3	175.70	
	Fairville to West St. John 3: 4  Fredericton—		
	Fredericton Junction to Fredericton  New Brunswick and Canada—  McAdam Junction to St. Stephen. 33.9  Watt Junction to St. Andrews. 27.5  McAdam Junction to Woodstock. 51.1  Debec Junction to Maine boundary. 5.1	0	
	St. Stephen and Milltown Ry.— St. Stephen to Milltown		
	Tobique Valley— Perth Centre to Plaster Rock	27.50	
	Manitoba and Northwestern — Portage la Prairie to Lanigan	80 00 80	
	Manitoba Southwestern Colonization— Manitou to Deloraine	70	
	Great Northwest Central		
	Nelson to Proctor. 20 Curzon to Kingsgate. 8		
	Northern Colonization— Labelle to Duhamel	** **	
	From Jct. with C. P. R. at Sicamous to Lake Okanagan	50.80	
	Nakusp and Slocan — Nakusp on Arrow Lake to Three Forks of Carpenter's Creek, B.C	36:40	
	Columbia and Western— Castlegar Junction to Midway	30 00 80	
	Kootenay and Arrowhead— Lardo to Gerrard.		

Table 1.—Showing Location of Railways, &c .-- Continued.

Name of Poilman	Description	Distance.		
Name of Railway.	Description.	Miles.	Total.	
Canadian Pacific - Con. Leased Lines	Columbia and Kootenay— Nelson to Robson	70.70		
	Vancouver and Lulu Island. Vancouver, to Steveston. Calgary and Edmonton— Calgary Junction to Strathcoma	59·50 16·90		
	Ottawa Northern and Western—         77.50           Hull to Waltham         86.90	480 · 40		
	Tilsonburg, Lake Erie and Pacific— Ingersoll to Port Burwell	156 · 40		
	Guelph and Goderich— Guelph to Goderich 80:60 Linwood Junction to Listowel 16:20	38.40		
	Nicola, Kamloops, and Similkameen — Nicola to Spence's Brldge. Walkerton and Lucknow— Walkerton to Saugeen Junction	96 · 80 47 · 00 37 · 60		
	Georgian Bay and Seaboard— Victoria Harbour to Coldwater. St. Mary's and Western Ontario— Embro to St. Mary's.	13:30		
	Orford Mountain— Eastman to Windsor.  Mansonville	36·50 18·60		
	Total mileage leased		3,820 · 90 6,179 · 10	
Canadian Government Rys	Intercolonial		1,450.37	

Table 1.—Showing Location of Railways, &c.—Continued.

		Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Canadian Government Rys.	Prince Edward Island—Con.  Montague Junction to Montague Emerald to Cape Traverse		269 33
			1,719 70
Canadian Northern Ontario .	Toronto to Parry Sound 145 44 Parry Sound Junction to Sudbury Junction 112 56 Sudbury Junction to Gowganda Junction 53 36 Branches 21 44 Business Spurs 9 56	5	342.20
Canadian Northern Quebec	Quebec to Montreal176·3Joliette to Hawkesbury67·0Garneau Junction to River à Pierre Jot'n40·0St. Jerome Junction to Huberdean45·7St. Jacques Junction to St. Jacques7·2Shawingan Junction to Falls4.5	5   1	112 20
Cape Breton Railway	Point Tupper to St. Peters	30 00	348167
	Terminal to St. Peters		31:00
Caraquet	miles south of Bathurst Station, easterly along the south shore of Baie des Chaleurs to Shippigan Har bour, N.B.	e 	68:00
Carillon and Grenville  Central Ontario	mini with Ottawa River Navigation Company'		13 00
	Picton to Trenton Junction	6 - · · · ·	140 · 13
way Company		44.66	
Campbellford, Lake Ontario and Western	Extension, Chipman to Minto	13.34	58:00
Crowsnest Southern Cumberland Railway and Coal Company (formerly	tario Railway, 49 miles under construction- International Boundary to Michel, B.C		74.18
Spring Hill and Parrsboro')	Spring Hill Junction, Intercolonial Railway, t Spring Hill Coal Mines, N.S., and Parrsboro', o the Bay of Fundy.	n 	32.00
prising Windsor and An- uapolis, Yarmouth and Annapolis and Corn- wallis Valley and lease of	New Glasgow Branch, I.C.R., not in operation.		
Windsor Branch of Inter- colonial and Midland of Nova Scotia	Windsor to Yarmouth	. 170.78	
	Branches— Wilmot to Torbrook	5.26	
	From Kentville to Kingsport, on Basin of Mina (formerly Cornwallis Valley Railway).  Windsor Branch of I.C.R.—Windsor to Windso	r 14 10	
	Junction, Intercolonial Railway, 14 miles from Halifax, leased	31 47	278:87

# Table 1.—Showing Location of Railways, &c.—Continued.

N	The state of	Distance.		
Name of Railway.	Description.	Miles.	Total.	
Eastern British Columbia	Corbin to McGillivray, B.C	14:00 2:00	16:00	
Edmonton, Yukon and Pacific			4:50	
Elgin and Havelock	From Elgin, County of Albert, N.B., to Petitcodiac Junction with Intercolonial Railway; thence to Havelock in County of Kings, N.B	27:00 1:00	. V. (10)	
Esquimalt and Nanaimo	Victoria to Wellington, Island of Vancouver		28 00 78 00	
Fredericton and St. Mary's Ry. Bridge, now in Inter-colonial Ry				
Eastern Division			736 36	
			884 64 1,326 14	
			2,947 14	
Leased and partly owned	Buffalo and Lake Huron Ry	161:30	161:30	
St. Ch.' Th. 1	Total mileage owned and leased		3,168:44	
St. Clair Tunnel and approaches	Under the St. Clair River, between Sarnia and Port Huron connecting the Grand Trunk Railway with railroads in State of Michigan (Length of tunnel between portals 6,000 ft., cylindrical in section with clear inside diameter of 19 feet 10 inches.)		2 25	
Grand Trunk Pacific	Under construction			
Gulf Shore  Halifax and Southwestern, formerly Nova Scotia Southern, including Cen-			16:78	
and Yarmouth and Mid		246:80 7:60 53:20 22:21 40:00		
Hampton and St. Martin formerly St. Martin and Upham			369:81	
Hereford	connects with Canadian Facific Railway at Cookshire, Maine Central at International boundary, and with Quebec Central at Dudswell		52:18	
Interprovincial Railway, bridge and approaches, now included in Ottawa, Northern and Western				

Table 1.—Showing Location of Railways, &c.—Continued.

Name of Buildings	Description	Dista	nce.
Name of Railway.	Description.	Miles.	Total.
Inverness and Richmond, now Inverness Ry. and	From Junction with Grand Trunk Railway near Kin- mount Station, to Bancroft Station	• • • • • • • • •	48:00
	Branches	19	23·37 27·00
Kettle River Valley	Richibucto to St. Louis. Grand Forks to Lynch Creek, B.C. Main Line Kingston to Renfrew. Glendower Branch—Bedford to Zanesville Mines. Robertsville Branch—To Robertsville Mines. Branches—To Doran's Mills, Charcoal Works McLaren's Mills, Betalehem Iron Mines, Lavant Mills, Clyde Forks Mills, Wilson's Mine, Carswel, 's Mills, William's Mine, Cameron Bay. (Connects with Grand Trunk at Kingston, Canadian Pacific at Sharbot Lake and at Renfrew.)	103 40 4 10 99	7:00 18:50
Lenora Mount Sicker Lotbinière and Mégantic Lake Erie and Detroit River.	Dawson City to Sulphnr Springs. Lenora Mines to Crofton, B.C Lyster Station, Grand Trunk, to St. Jean des Chaillons. Walkerville, Ont., to St. Thomas. Rondeau to Sarnia	126 78	109:80 31:81 12:00 30:00
London and Port Stanley Liverpool and Milton Manitoulin and North Shore.	Loudon to Port Stanley on Lake Erie		198:81 23:66 6:00 22:70
The Manitoba Ry., formerly— The Northern Pacific & Manitoba, the Winnipeg Transfer Ry., the Portage and Northwestern the Waskada and Northeast- ern leased to Govt. of Manitoba and operated	Middleton to Victoria Beach	1	1 71
by the Canadian North- ern	International boundary to Winnipeg, and branches		350.68
Midland of Nova Scotia (formerly Stewiacke Valley)	Central Ontario Junction to Wanston		9.60
Mid. of Man. now Gr. North.	International Boundary to Portage la Prairie  " " Morden	76 52 15 25	35·46 91·77

Table 1.—Showing Location of Railways, &c.—Continued.

		Dista	nce.
Name of Railway.	Description.	Miles.	Total.
	From Junction with Stanstead, Shefford and Chambly Railway, 2½ miles east of St. Johns, P.Q., to Junction with Vermont and Canada Railway, at Vermont boundary; also connects at Stanbridge with Lake Champlain and St. Lawrence Junction Railway		23:60
Montreal, Portland and Boston, now Montreal & Province Line	Junction with Grand Trunk at St. Lambert to Farnham Marieville to Césaire Farnham to Freligsburgh	32 · 00 8 · 60 18 · 00	58:60
merly Southeastern)	Boundary	$-\frac{\frac{43}{59}\frac{70}{20}}{\frac{102}{90}}$	
	Leased—Lake Champlain and St. Lawrence Junction —Stanbridge to St. Guillaume	60.50	163 40
Napierville Junction	From Swinton to Carbonado, B.C., and leased line		10:85 27:06 55:42
New Glasgow Iron, Coal and Railway Co., now Nova Scotia Steel and Coal Co New Brunswick and Prince	From Ferrona Junction, I.C.R., to Snuny Brae		12:50
Edward Island  New Brunswick Southern	From Sackville Station, Intercolonial Railway to Cape Tormentine		36.00
(formerly Shore Line) New Westminster Southern . Nosbonsing and Nipissing . Orford Mountain (now Can. Pac. Ry.).	St. John, N.B., to St. Stephen, N.B.  Douglas to South Westminster.  From Lake Nosbonsing to Lake Nipissing.		82:35 24 10 5:50
Ottawa and New York Pembroke Southern leased to Canada Atlantic	From Pembroke to Golden Lake		56·90 21·36
Philipsburg Ry. and Quarry Co Pontiac and Renfrew	Stanbridge Station of Canadian Pacific and Central Vermont Railways, to Philipsburg, Missisquoi Co From Wyman's Station, on Pontiac Pacific Junction		6:00
	International Boundary near Waring to International Boundary near Woodland		4·25 5·10
Quebec Bridge and appro- aches to connect adjacent	From Canadian Pacific Railway at Regina, Northwesterly to Long Lake and Prince Albert		255 : 50
	(Across St. Lawrence River at Quebec, under construction 10 miles.) Quebec to Chambord Junction. Chambord Junction to Chicoutimi Valcartier to Gosford Chambord Junction to Roberval	176:00 51:00 5:50 14:00	
	La Tuque Junction to La Tuque	40 00	286 50

Table 1.—Showing Location of Railways, &c.—Continued.

	D. C.C.	Distance.		
Name of Railway.	Description.	Miles	Total.	
Quebec Central	Main Line—Sherbrooke to Harlaka Junction, Inter- colouial Railway 5 miles from Levis, Que Beauce Junction to St. George Tring Megantic—Tring Junction to Megantic (Connects with Grand Trunk, Canadian Pacific and Boston and Maine Rys. at Sherbrooke.)	138 00 24 00 60 00	222 00	
Quebec and New Brunswick.	From Chaudiere Junction to Connors, N.B., 135 miles (3 miles under construction.)	1		
Quebcc, Montmorency and Charlevoix	Hedleyville, Parish of St. Roch, Quebec, to Cap Tourmente		27 00	
Onebec, Montreal aud Southern, comprising East Richelieu Valley Railway and United Counties		80.82		
And South Shore Railway	From Fortierville Junction with Grand Trunk at St. Lambert	109.69 1.40	101.01	
Red Mountain	From International boundary Line, B.C., to Rossland.		191 · 91 9 · 59	
Brnnswick	Campbellton, N.B., to St. Leonard's 110 miles (30 miles under construction)		80 00 3 39	
Stanstead, Shefford and Chambly	From Junction with Montreal and Vermont Junction Railway, near St. John, Que., easterly to Waterloo.		45.00	
by Canadian Pacific Ry				
St. John Valley and Rivière du Loup				
Salisbury and Albert (for- merly Albert Railway)			45:00	
Schomberg and Aurora	Bond Lake, Ont., to Schomberg		14:40	
St. Lawrence and Adiron dack	From Jct. with Canada Atlantic near Valleyfield to International boundary.  Beauharnois to Junction with Canadian Pacific at	19 92		
	Adirondack Junction. Leased—Valleyfield to Beanharnois.	12.90	46 12	
Sydney and Louisburg (Dominion Coal Co.)	Sydney Harbonr to Louisburg Harbonr Branches to coal mines Spurs	22.77	1,712	
Spokane and British Col			62°86 3°70	
St. Mary's River, now Alberta Railway and Irri				

Table 1.—Showing Location of Railways, &c.—Concluded.

Name of Ballman	Description.	Dista	nce.
Name of Railway.	тевеприон.	Miles.	Total.
Temiscamingue and Northern Ontario	North Bay to Cochrane. Englehart to Charlton. Cobalt to Kerr Lake Haileybury to Moore's Cove	252 80 7 80 3 90 1 64	266 14
Thousand Islands	Gananoque on St. Lawrence River to Thousand Island Junction	81 · 00 32 · 00	6:33
Tilsouburg, Lake Erie and Pacific	Port Burwell to Ingersoll, now in Can. Pac. Ry  Waterford Jct. with Canada Southern to Welland Junction with Canada Sonthern—passing through the city of Hamilton  Hamilton to Grand Trunk Junction	79·88 0·27	113.0€
Trans-Canada	From Roberval to Port Simpson across the continent, 60 miles from Roberval, westward under construction.		80.15
Victoria and Sidney.	Victoria to Sidney, B.C		16:26
Victoria Terminal Railway	City of Victoria		1.14
Vancouver, Victoria and Eastern	Laurier to Grand Forks Grand Forks Junction to Pheenix. Grand Forks to Granby Smelter Midway to International Boundary. Chopaka to Princeton. International Boundary to S. Westminster International Boundary to Port Guichon New Westminster to Vancouver. Burrard Inlet to Vancouver.	16°47 25°82 4°74 28°89 59°11 21°05 46°60 14'79 1°93	
Wellington Colliery	Union Bay to Cumberland.  Junction with Canada Eastern Ry. at Cross Creek Station to Ryan Brook, N.B.		219:40 10:75 10:50
	Total mileage		24,730 86

1 GEORGE V., A. 1911
Table 2.—Summary of Mileage operated for

=									
		SINGLE TRACK.							
	Name of Railway.	Line repr	resented 1 Stock.	ropri-	erated lease.	ine operated under con- tract, &c.	erated track.	Total	
Number.		Main line.	Bran'hs and spurs.	Line of Proprietary Companies.	Line operated under lease.	Line operated under con- tract, &c.	Line operated under track- age rights.	Mileage operated.	
1	Alberta Railway & Irrigation Co	111:29	-53	 	] 	 	1.60	113.42	
	Algonia Central & Hudson Bay							89.64	
3	Atlantic, Quebec & Western	35 00					1 75	36.75	
4 5	Atlantic & Lake Superior	100.00	11:35				19.00	100.00 108.37	
	Bedlington & Nelson	15.30	11 01				8.67	23 97	
- 7	Bessemer & Barry's Bay	5.00						5:00	
	Brandon, Sask'n & Hudson Bay	69°45 85°80	1.50					69·45 90·32	
	British Yukon Brockville, Westport & N. Western	45.00						45.00	
11	Bruce Mines & Algoma	17:28					[]	17.28	
12	Canada Southern	226.18	156.01					382 19	
13	Intercolonial	1,415.33	35.04				40 30	1,490 67	
14	Prince Edward Island	150.90	118.43					269:33	
	Canadian Northern	1,146 26	31:00		349.44	<b>2</b> 55·50	3.80	3,281 · 30	
17	Canadian Northern Quebec	243.40	105.27				58.65	407:32	
18	Canadian Pacific	$=2.909 \cdot 50$	3,020:60	2,576 10	1,309.30	-184.00	37.30	10,037:30	
	Carillon & Grenville	13.00						13·00 31·00	
	Cape Breton	68:00.			16:78			84.78	
22	Central Outario	140 13				9.60		149.73	
23	Crowsnest Southern	14 10						74.18	
24 - 25	Cumberland Railway & Coal Co Dominion Atlantic	242 14	5.26		31:47	* * * * * * * * * * * * * * * * * * * *	14 42	32·00 293·29	
26	Eastern British Columbia	14:00	2 00					16.00	
	Edmonton, Yukon & Pacific	4.20						4:50	
	Elgin & Havelock Esquimalt & Nanaimo	$\frac{27}{78} \frac{00}{00}$	1 00					28:00 78:00	
30	Grand Trunk, in Canada	78 00 2,933 66 396 41				161:30	13.71	3,108:67	
	Grand Trunk (Canada Atlantic)	396:41			59.85			456 26	
	*Grand Trunk Pacific							372.11	
34	Hampton & St. Martin's	30.00						30.00	
35	Hereford	52.18						52.18	
	*International of New Brunswick Irondale, Bancroft & Ottawa	48:00						80:00 48:00	
38	Inverness Railway & Coal Co	60:91						60 91	
	Kaslo & Slocan	23.18	19					23·37 34·00	
	Kent Northern	18:50			7 00			18.20	
42	Kingston & Pembroke	103:40	6:40					109.80	
	Kloudike Mines	31.81					1: 6:57	31.81	
	Lake Erie & Detroit, Père Marquette Liverpool & Milton	5 00	1:00		* * * * * * * * * * * * * * * * * * * *		1.0 04	335 · 38 6 · 00	
	London & Port Stanley							24.08	
	Lotbinière & Megautic	30:00 1:91						30.00	
	Maganetawan River Manitouliu & North Shore	$\frac{1.91}{22.70}$					3.25	1·91 25·95	
	Maritime Railway & Coal Co	12:00	3 00					15.00	
51	Massawippi Valley						2:95 :99	38:41	
53	Midland of Manitoba Montreal & Atlantic	102:90			60:50			92:76 163:40	
54	Montreal & Province Line	50:00	8:60					58.60	
55	Montreal & Vermont Junction							23.60	
	Moncton & Buctouche Morrissey, Fernie & Michel	32.00 5.89			5:03			32·00 10·85	
	Napierville Junction	27:06						27:06	
	Nelson & Fort Sheppard	55.42					5.42	60.84	

<sup>\*</sup> Under construction.

SESSIONAL PAPER No. 20b
the Year ending June 30, 1910.—All Tracks.

				SEC	COND TRACE	к.		
Rails.		Rails. Line represented by Capital Stock.		Line Line operated	Total	Rails.		
Iron.	Steel.	Main line.	Branches and spurs.	operated under lease.	under trackage rights.	Mileage operated.	Iron.	Steel.
	111 · 82							
	89:64							
	35:00							
	100 00							
	89°37 15°30							
	2:00							
	69:45							
	90.32							
	45.00							
	17 · 28 382 · 19		16.80			242.98		242.98
	1,450.37	23.13	2.10		37:60			25 · 23
	269:33							
	3,281:30							
	342·20 348-67							
	10,000:00			155 90		553:40		553.40
	13.00							
	31.00							
	84.78							
	149°73 74 18							
	32.00							
	278.87							
	16:00							
	4:50							
	28:00							
	78:00 3,094:96					706.48		706 48
	456 · 26					.88		.88
	369:81							
	30·00 52·18							
	80 00							
	48:00							
	60:91							
	23:37							
	34:00							
6:40	18 50 103 40							
	31.81							
	198.81							
	6.00							
	23.66							
	30:00 1:91							
	15:00	1						
	35.46							
	91.77							
	163:40	6.40				6.40		
l								
	10.85	5						
	97:00	)						

1 GEORGE V., A. 1911
Table 2.—Summary of Mileage opera ed for

T .			Sp	KGLE TRA	.ск.		٠
Name of Railway.	Line represented by Capital Stock.		of stary nies. erated lease.		con-	rated crack- ats.	Total
Number.	Main line.	Bran'hs and spurs.	Line of Proprietary Companies.	Lines operated under lease.	Line operated under contract.	Line operated under track- age rights.	Mileage operated.
60 New Brunswick Coal & Ry. Co 61 New Brunswick Southern 62 New Brunswick & P. E. Island	58.00 82.19 36.00	16					58.00 82.35 36.00
63 New Westminster Sonthern 64 North Shore. 65 Nosbonsing & Nipissing 66 Nova Scotia Steel & Coal Co	24·10 6 13 5·50 12·50 56·90	2 50				1.48	25.58 8.63 5.50 12.50 58.80
67 Ottawa & New York 68 Phillipsburg Ry, & Quarry Co 69 Pontiac & Renfrew 70 Princeton Branch of Wash'n Co. Ry	6 00 4 · 25					1 30	6:00 4:25
71 Quebec Central	138:00 24:00 227:00	84 00 59 50					222 · 00 27 · 00 286 · 50
74 Quebec, Montreal & Southern. 75 Red Mountain. 76 Rutland & Noyan. 77 Salisbury & Albert	191 · 91 9 · 59 3 · 39 45 · 00						191 · 91 9 · 59 3 · 39 45 · 00
78 Schomberg & Aurora 79 Stanstead, Shefford & Chambly 80 St. Clair Tunnel \$1 St. Lawrence & Adirondack	14:40 43:00 2:25 32:82						14:40 43:00 2:25 55:04
82 Spokane & British Columbia	39.00 113.00 252.80	22:77		3.70		1.20	3·70 64·06 113 00 266·14
85 Temiskaming & Northern Ontario. 66 Thousand Islands. 87 Toronto, Hamilton & Buffalo. 88 Vancouver Copper Co.	6:08 79:88 12:00	· 25 · 27				4.36	6:33 84:51 12:00 220:88
89 Vancouver, Victoria & Eastern 90 Victoria & Sidney 91 Victoria Terminal Ry. & Ferry Co 92 Wellington Colliery Co	219·40 16·26 1·14 10·75					1 49	16.26 1.14 10.75 10.50
93 York & Carleton	$\frac{10.50}{14,337.28}$	5,346.12	2,577:19	1,856 · 87	613.40	370.44	

SESSIONAL PAPER No. 20b the Year ending June 30, 1910.—All Tracks:—Continued.

58'00					SE	COND TRAC	к.		
Tron.   Steel.   Main line.   Branches and spurs.   Steel   Under trackage operated.   Iron.   Steel	Ra	ils.	Line represented by Capital Stock.				Total	Ra	ils.
82°35 30°00 24°10 8°63 5°50 12°50 56°90 6°00 4°25  5°10 222°00 27°00 6°00 27°00 6°00 33°3 45°00 114°40 43°00 22°25 46°12 3°70 6°286 113°00 22°25 46°12 3°70 6°286 113°00 22°25 46°12 3°70 6°286 113°00 22°25 46°12 3°70 6°286 113°00 20°25 46°14 6°33 80°15 2°44 2°50 2°19°40 10°26 113°00 219°40 112°00 219°40 113°10 114°11	Iron.	Steel.	Main line.		under	under trackage	Mileage	Iron.	Steel.
82 35 36 36 90 24 10 8 63 550 12 50 56 90 6 00 4 25 50 12 20 0 6 00 6 00 6 00 6 00 6 00 6 00		58:00							,
$\begin{array}{c} 36 \cdot 90 \\ 24 \cdot 10 \\ 8 \cdot 63 \\ 5 \cdot 50 \\ 12 \cdot 50 \\ 56 \cdot 90 \\ 6 \cdot 90 \\ 6 \cdot 90 \\ 4 \cdot 25 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $									
$\begin{array}{c} 24 \cdot 10 \\ 8 \cdot 63 \\ 5 \cdot 50 \\ 12 \cdot 50 \\ 56 \cdot 90 \\ 6 \cdot 60 \\ 4 \cdot 25 \\ \\ \\ \hline \\ 5 \cdot 10 \\ 222 \cdot 90 \\ 27 \cdot 90 \\ 6 \cdot 90 \\ \\ 286 \cdot 50 \\ \\ 191 \cdot 91 \\ 9 \cdot 59 \\ 3 \cdot 39 \\ 45 \cdot 90 \\ 14 \cdot 40 \\ 43 \cdot 90 \\ \\ 2 \cdot 25 \\ 46 \cdot 12 \\ \\ 3 \cdot 70 \\ 62 \cdot 86 \\ \\ 113 \cdot 90 \\ \\ 2 \cdot 25 \\ 46 \cdot 12 \\ \\ 3 \cdot 70 \\ 62 \cdot 86 \\ \\ 113 \cdot 90 \\ \\ 206 \cdot 14 \\ 6 \cdot 33 \\ \\ 80 \cdot 15 \\ 2 \cdot 94 \\ \\ 2 \cdot$									
8:63       5:50         12:50       56:90         6:00       4:25         22:20       227:00       6:00       6:00       6:00         286:50       191:91       9:59       3:39       45:00       43:00       2:25       46:12       3:70       62:86       113:00       206:14       6:33       80:15       2:04       2:04       2:04       2:04       2:04       2:04       2:04       2:04       11:00       2:04       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       2:04       11:00       11:00       2:04       11:00									
5 5 5 0 12 5 0 56 9 0 6 0 0 4 25 5 5 10 222 0 0 6 0 0 0 6 0 0 0 6 0									
$\begin{array}{c} 12\ 50\\ 56; 90\\ 6\ 00\\ 4 \cdot 25\\ \\ \hline \\ 5 \cdot 10\\ 222\ 00\\ 27 \cdot 00\\ 6 \cdot 60\\ \\ 286\ 50\\ \\ 191 \cdot 91\\ 9 \cdot 59\\ 3 \cdot 39\\ 45 \cdot 00\\ 14 \cdot 40\\ 43 \cdot 00\\ \\ 2 \cdot 25\\ 46 \cdot 12\\ \\ 3 \cdot 70\\ 62 \cdot 86\\ \\ 113\ 00\\ \\ 266 \cdot 14\\ 6 \cdot 33\\ \\ 80 \cdot 15\\ 2 \cdot 94\\ \\ 12 \cdot 90\\ \\ 212 \cdot 90\\ \\ 12 \cdot 90\\ \\ 12 \cdot 90\\ \\ 113\ 40\\ \\ \\ 6 \cdot 33\\ \\ 80 \cdot 15\\ \\ 2 \cdot 94\\ \\ 2 \cdot 12 \cdot 90\\ \\ 12 \cdot 90\\ \\ 12 \cdot 90\\ \\ 113\ 40\\ \\ \\ 10\ 75\\ \\ \end{array}$									
$\begin{array}{c} 56^{\circ}90 \\ 6 00 \\ 4^{\circ}25 \\ \\ \hline \\ 5^{\circ}10 \\ \\ 222 00 \\ 27^{\circ}00 \\ 6^{\circ}00 \\ \\ 286^{\circ}50 \\ \\ \hline \\ 191^{\circ}91 \\ \\ 9^{\circ}59 \\ \\ 3^{\circ}39 \\ 45^{\circ}00 \\ \\ \hline \\ 14^{\circ}40 \\ \\ 43^{\circ}00 \\ \\ 2^{\circ}25 \\ \\ \hline \\ 46^{\circ}12 \\ \\ 3^{\circ}70 \\ \\ 62^{\circ}86 \\ \\ \hline \\ 113^{\circ}00 \\ \\ 266^{\circ}14 \\ \\ 6^{\circ}33 \\ \\ 80^{\circ}15 \\ 2^{\circ}94 \\ \\ 2^{\circ}04 \\ \\ 2 \\ \\ \hline \\ 12^{\circ}00 \\ \\ 219^{\circ}40 \\ \\ \hline \\ 16^{\circ}26 \\ \\ \\ \hline \\ 114 \\ \\ \hline \\ 10^{\circ}75 \\ \\ \end{array}$									
$\begin{array}{c} 6\ 00\\ 4\cdot 25\\ \hline \\ 5\cdot 10\\ 222\ 00\\ \hline \\ 27\cdot 00\\ \hline \\ (286\cdot 50\\ \hline \\ 191\cdot 91\\ \hline \\ 9\cdot 59\\ \hline \\ 3\cdot 39\\ \hline \\ 45\cdot 00\\ \hline \\ 14\cdot 40\\ \hline \\ 43\cdot 00\\ \hline \\ 2\cdot 25\\ \hline \\ 46\cdot 12\\ \hline \\ 3\cdot 70\\ \hline \\ 62\cdot 86\\ \hline \\ 113\cdot 00\\ \hline \\ 266\cdot 14\\ \hline \\ 6\cdot 33\\ \hline \\ 80\cdot 15\\ \hline \\ 2\cdot 04\\ \hline \\ 21\cdot 20\\ \hline \\ 21\cdot 20\\ \hline \\ 21\cdot 20\\ \hline \\ \\ 21\cdot 20\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$			6						
4·25       5·10       222 00       27·00     6·00     6·00     6·20       286·50       191·91     9·59       3·39     45·00     43·00       14·40     43·00     2·25       46·12     3·70     62·86       113 00     266·14     6·33       80·15     2·04     2·04     2       12·00     219·40     16·26     1·14       10 75     10 75     10     10									
5·10 292 00 27·00 6·00 6·00 6·00 6 286·50 191·91 9·59 3·39 45·00 14·40 43·00 2·25 46·12 3·70 62·86 113·00 266·14 6·33 80·15 2·94 21:20 219·40 16·26 1·14 10·75									
$\begin{array}{c} 222\ 00 \\ 27\ 00 \\ 6\ 00 \\ \end{array}$		1 20							
$\begin{array}{c} 222\ 00 \\ 27\ 00 \\ 6\ 00 \\ \end{array}$		5:10							
27 '00 6 '00 6 '00 6 00 6 00 6 286 50 191 '91 9 59 3 '39 45 '00 14 '40 43 '00 2 25 46 '12 3 70 62 86 113 00 266 '14 6 '33 80 '15 2 94 2 12 '00 219 '40 16 '26 1 114 10 75									
286 50 191 91 9 59 3 39 45 00 114 40 43 00 2 225 46 12 3 70 62 86 113 00 266 14 6 33 80 15 2 04 21 200 219 40 16 26 1 14 10 75			6:00				6:00		6.0
191'91 9 59 3 39 45'00 14'40 43'00 2'25 46'12 3 70 62'86 113 00 266'14 6 633 80'15 2 94 212'00 219'40 16'26 1 14 10 75			0 00				0 00		0.0
9 59 3 39 45 00 14 40 43 00 2 25 46 12 3 70 62 86 113 00 266 14 6 33 80 15 2 94 12 00 219 40 16 26 1 14									
3 3 3 9 45 00 114 40 43 00 2 2 25 46 12 3 70 62 86 113 00 2 266 14 6 33 80 115 2 94 2 12 00 219 40 16 26 1 114 10 75									
45 00									
14'40 43'00 2'25 46'12 3'70 62'86 113 00 266'14 6'33 80'15 2 04 12'00 219'40 16'26 1'14 10 75									
43:00 2:25 46:12 3:70 62:86 113:00 266:14 6:33 80:15 2:04 2:04 2:04 2:04 2:04 2:04 2:04 2:04 2:04 2:04 2:04 2:04 2:04									
2 · 25 / 46 · 12 / 3 · 70 / 62 · 86 / 113 · 00 / 266 · 14 / 6 · 33 / 80 · 15 / 2 · 94 / 2 / 12 · 00 / 219 · 40 / 16 · 26 / 114 / 10 · 75 / 2 / 12 · 00 / 219 · 40 / 16 · 26 / 1 · 14 / 10 · 75 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /									
46 12 3 70 62 86 113 00 266 14 6 33 80 15 2 94 12 00 219 40 16 26 1 14 10 75									
3 '70   62 '86   113 00   266 '14   6 '33   80 '15   2 04   219 '40   16 '26   1 '14   10 75									
62'86 113 00 266'14 6'33 80'15 2 04 2'04 2 12'00 219'40 16'26 1'14 10 75									
113 00 266 14 6 33 80 15 2 04 2 0 12 00 219 40 16 26 1 14 10 75		69.06							
266·14 6·33 80·15 12·00 219·40 16·26 1·14									
6:33 80:15 2:04 2:04 2 12:00 219:40 16:26 1:14 10:75									
80°15 2 04 2 04 2 12°00 2 19°40 16°26 1°14 10°75									
12:00 219:40 16:26 1:14 10:75			9.04				9:04		0.0
219 · 40 16 · 26 1 · 14 10 · 75			2 174				2 04		2:0-
16·26·									
1.14									
10 75									
				· · · · · · · · · · · · · · ·					
10 30									
		10.90							
6 40 21,724 46 1,368 61 18 90 155 90 37 60 1,581 01	C: 40	91.791.40	1 900.01	10.00	155,00	97.00	1 501:01		1,543 41

1 GEORGE V., A. 1911 TABLE 2.—Summary of Mileage Operated for the

				Y	ARD T	RACK A	ND SIDING	38.	
r.	Name of Railway.	Line rep ed l Capital	y	erated lease.	perated er con- t, &c.	Line operated under track- age rights.	nileage ated.	R	ails,
Number.		Main line.	B'chs and spurs.	Line operated under lease.	Line o und trac	Line of under	Total mileage operated.	Iron.	Steel.
2		11:59 23:20	9:93				33 13	•••••	
5	Atlantic, Quebec & Western Atlantic & Lake Superior Bay of Quinté	2:00 11:30	4.00				$\frac{2}{15} \frac{00}{30}$	• • • • • • •	2·00 15·30
7 8	Bedlington & Nelson Bessemer & Barry's Bay Brandon, Sask'n & Hudson Bay						1.00 8.84		1:00 8:84
$\frac{10}{11}$	British Yukon. Brockville, Westport & N'th Western Bruce Mines and Algoma.	2-00					2.00		2.00
13	Canada Southern	383·71					383.71 20°25	9.70	190.75 383.71
16	Prince Edward IslandCanadian Northern Canadian Northern OntarioCanadian Northern Quebec	24:31	161 · 96 7 · 04 36 · 83				362·94 31·35 51·03	3.70	16:55 362:94 31:35 51:03
18 19	Canadian Pacific Carillon & Grenville. Cape Breton	2,215 20					2,215 20		2,215.20
$\frac{21}{22}$	Caraquet Central Ontario Crowsnest Southern	3 · 50 15 · 50 13 · 80			. 50		16.00		16:00
$\frac{25}{26}$	Cumberland R'ly. & Coal Co.  Dominion Atlantic.  Eastern British Columbia	17.78	9.14	6.18					
29	Edmonton, Yukon & Pacific. Elgin & Havelock Esquimalt & Nanaimo.								
$\frac{31}{32}$	*Grand Trunk Pacific	103.00		5 29			108:29		108:29
35	Halifax & Southwestern	8:96					8:96		8.96
37 38	*International of New B'k. Irondale, Bancroft & Ottawa Inverness R'ly. & Coal Co. Kaslo & Slocan	1:00					1 00 4 60		1:00 4:60
40 41	Kent Northern Kettle River Valley Kingston & Pembroke.	1 : 29					1.29		1 · 29
43	Klondike Mines Lake Erie & Detroit (Père Mar-	2:00 66:94						24.00	2:00 66:94
46	quette). Liverpool & Milton London & Port Stanley. Lotbinière & Megantic.	10.03					10.03		10.03
$\frac{48}{49}$	Maganetawan River Manitoulin & North Shore. Maritime R'lv. & Coal Co.	3 · 00 3 · 00	2.92				7.72		3:00 7:72 3:00
51 52	Massawippi Valley. Midland of Manitoba. Montreal & Atlantic.	8.84 8.88					8·84 8·88		8:84 8:88 36:60
54 55	Montreal & Province Line.  Montreal & Vermont Jet.  Moncton & Buctouche	2:50 2:00					$\frac{2.50}{2.00}$		2:50 2:00 2:00
57 58	Morrissey, Fernie & Michel Napierville Junction Nelson & Fort Sheppard	3.22					3.22		•

SESSIONAL PAPER No. 20b

 $20 \text{B} - 2\frac{1}{2}$ 

Year ending June 30, 1910—All Tracks.

									_
		Тота	AL MILEAG	e Operatei	D-ALL TRA	ACKS.			
Line rep by Capital	•	Line of pro-	Line operated	Line operated under	Lines operated under	Total Mileage	R	tails.	. L
Main line.	Branches and spurs.	Com- panies.	under lease.	contract &c.	trackage rights.	operated.	Iron.	Steel.	Number.
122.88		 				125:01		123:41	
112:84	9.93					122:77		122:77	
$\frac{35.00}{102.00}$						36.75 102.00		35:00 102:00	
89.30	15.37					123 67		104.67	
16.58								16.58	
6.00								6:00	
78 29 85 80						$78 \cdot 29 \\ 90 \cdot 32$		78 · 29 90 · 32	
47.00								47.00	
17 28						17.28		17:28	11
598*19	217.73					815.92		815.92	12
1,822.17	37:14				77:90	1,937.21		1,859:31	
$162.05 \\ 1,300.20$	1,692.06		396:48	255:50		289·58 3,644·24	3.70	$285^{\circ}88$ $3,644^{\circ}24$	
335.51	38.04				3.80			373.55	
257:60					58.65			399.70	
5,522.20	3,020.60	2,576.10					• • • • • • • • • •	12,768 60	
								13:00 31:00	
71.50			16.78					88.28	
155.63				10:10				165.73	22
			• • • • • • • • • •					87.98	
48.00 259.92	14:40		37 : 65		14:42	326:39	8:78	48 00 303 19	
14.00	2.00		01 03		11 12	16.00	0 10	16.00	
						4.50		4.50	27
27:00								28*00	
78:00 4,739:70	• • • • • • • • •		• • • • • • • • • •	161.30	13.71			78.00 4,901.00	
500.29			65.14			565.43		565.43	31
258.53	130.33						• • • • • • • • • • • • • • • • • • • •	388.86	
								30.00	
61.14						61 · 14		61 14	
								80.00	
$\frac{49.00}{65.51}$								49:00 65:51	
23.18	1.62							24.80	
27.00			7:00			34.00		34.00	40
19.79	7. 10	• • • • • • • • • • • • • • • • • • • •						19.79	
$\frac{126 \cdot 40}{33 \cdot 81}$	7.40					133·80 33·81	30:40	103 · 40 33 · 81	$\frac{42}{43}$
265.75					136.57	402:32			
265 75 . 5:00						6:00		265 · 75 6 · 00	
						34.11		33.69	46
33.00				• • • • • • • • •				33.00	
$\frac{1.91}{27.50}$					3.25	00 0-1		$\frac{1.91}{30.42}$	
15.00								18:00	
44 30 .					2:95	47.25		44:30	51
100.65					.99			100.65	
$\begin{array}{c c} 145.90 \\ 52.50 \end{array}$			60.50					206 · 40 61 · 10]	
						25 60		25.60	
34.00						34.00		34.00	56
								10.85	57
					5.42			30·28 58·51	
00 01					0 45	uo :10 ,		05 013	03

 $\mbox{1 GEORGE V., A. 1911} \\ \mbox{Table 2.} \mbox{--Summary of Mileage Operated for the} \\$ 

			Y	ARD TE	RACK AN	D SIDING	8.	
Name of Railway.	Line reprede la Capital S	y	ne operated under lease.	Line operated under con- tract, &c.	Line operated under track- age rights.	Total mlleage operated.	Ra	ils.
	Main line.	B'chs and spurs.	Line o	Line o und tract	Line o unde age r	Total mlle   operated	Iron.	Steel.
New Brunswick Coal & Ry. Co	7:00							7:0
New Brunswick Southern	2.76							2.
New Brunswick & P.E. Island	1-60							110
New Westminster Southern	1.16							1'
North Shore	1.37							1.
Nosbousing & Nipissing								1· 1·
Nova Scotia Steel & Coal Co								<u>6</u> .
Ottawa & New York	6:71							2.
Phillipsburg Ry. & Quarry Co						2 00		ú
Pontiac & Renfrew Princeton Branch of Wash'n Co.				1				
	-11					-71		
Ry						1.7		
Quebec Central						6:00		6.
Quebec Ry., Light & Power Co						39:05		39.
Quebec & Lake St. John		3.12				26.17		26.
Red Mountain						3.68		3.
Rutland & Novan.								Ϊ.
Salisbury & Albert								5
Schomberg & Aurora								
Stanstead, Shefford & Chambly						3.23		3.
St. Clair Tunnel								
St. Lawrence & Adirondack			3 12			7:36		7
Spokane & British Columbia		1				20		٠.
Sydney & Louisburg (Dom. Coal			-					
Co.)		42:42	2		1	42:42		42
Temiseouata		2.74			.25	8.85		8
Temiskaming & Northern Ontario	. 74 52	3.45				77:94		77
Thousand Islands	1.00					1:00		1
Toronto, Hamilton & Buffalo	. 30.35					30.35		30
Vancouver Copper Co								
Vancouver, Victoria & Eastern								36
Victoria & Sydney	. 1.20					1.20		1
Victoria Terminal Ry. & Ferry Co								
Wellington Colliery Co								
York & Carleton								
	1							

SESSIONAL PAPER No. 20b

Year ending June 30, 1910—All Tracks—Concluded.

## TOTAL MILEAGE OPERATED—ALL TRACKS.

Line repressive by Capital		Line of pro- prietary	Line operated	Line operated under	Line operated under	Total mileage	Ra	ils.
Iain line.	Branches and spurs.	Com- panies.	under lease.	contract,	trackage rights.	operated.	Iron.	Steel.
65 .00				 		65:00		65:00
84.95	*16					55.11		85.11
37 . 60					1.40	37:60		37:60
25·26 7·50	2:50				1.48	26.74 10.00		25.26
6.75	2 30					6.75		10:00 6:75
13 50						13.50		13:50
63-61					1:90	65.51		63 61
8:00						8.00		8:00
4.25						4.25		4.23
5.24						5.24		5.24
138:00	84:00					222.00		222.00
36 90	01 00			3:00		39.00		39:00
262.41	63:14					325 - 55		325 - 55
214.96	3.15	1				218:08		218:08
						13:27		13:27
4.16						4.16		4.16
50:00						50:00		50.00
14:40 46:23						14:40 46:23		14:40
						2.25		46 · 28 2 · 28
			16:42		8.92	62:40		53.48
			3 90		0.00	3.90		3 90
39.00	65:19	1:09	)		1:20	106:48		105 28
118.86	2.74				25	121.85		105 28
327:32	16.76				-0	344.08		344:08
7.08	25					7:33		7:38
112.27	.27				4:36	116:90		112.54
12:00						12:00		12:00
255 64					1.48	257 12		255 6
17:46						17:46		17:46
1.14						1.14		1:14
10.75 10.50						10.75 10.50		10:75 10:50
10 50				• • • • • • • • • • • • • • • • • • • •		10 50		10 90
20,447.60	5,715.95	2,577 19	2,074.60	613.90	408.29	31,837 53	42.88	31,386 36

Table 3.—Summary of Single-track Railway Mileage owned in Provinces for the Year ending June 30, 1910.—Canada.

## NOVA SCOTIA.

er.	Name of Railway.	Mileage o Nova S on Jun	cotia	Increase.	Decrease.
Number.		1910.	1909.		
4 5 6 7 8 9	Canadian Government Railway—Intercolonial. Cape Breton Cumberland Railway & Coal Co. Dominion, Atlantic and Windsor Branch of I.C. Ry. Halifax & Southwestern. Inverness Railway & Coal Co Liverpool & Milton. Maritime Coal, Railway & Power Co. Nova Scotia Steel & Coal Co.'s Railway	481 61 31 00 32 00 247 40 31 47 369 81 60 91 6 00 15 00 12 50	481·61 31·00 32·00 247·40 31·47 369·81 61·00 5·75 15·00 12.50	25	.09
11	Sydney & Louisburg (Dominion Coal Čo.)	62.86	62:99		·13
	Total	1,350.56	1,350 53	•25	•22

#### PRINCE EDWARD ISLAND.

ř.	Name of Railway.	Mileage of Prince Edvon Ju	ward Isl'd	- Increase.	Decrease.
Number	Number of Numbers	1910.	1909.		
	Canadian Government Ry.—Prince Edward Island.	269:33	269:33		
	Total	269:33	269:33		

Table 3.—Summary of Single-track Railway Mileage owned in Provinces for the Year ending June 30, 1910.—Canada—Continued.

#### NEW BRUNSWICK.

er.	Name of Railway.	Mileage of New Bru	inswick	Increase.	Decrease.
Number.		1910.	1909.		
3 4 5 6 7 8 9 10 11 12 13 14	Albert Southern (abandoned). Canadian Government Railway—Intercolonial. Canadian Pacific Caraquet and. Gulf Shore Elgin & Havelock. Hampton & St. Martin's. International of New Brunswick Kent Northern and. St. Louis & Richibucto. Moncton & Buctouche New Brunswick Coal & Railway Co. New Brunswick & Prince Edward Island. New Brunswick Southern.	504·69 438·60 68·00 16·78 28·00 30·00 80·00 27·00 7·00 32·00 58·00 36·00 82·35	19 00 504 69 440 20 68 00 16 78 28 00 30 00 80 00 27 00 7 00 32 00 58 00 36 00 82 35		19.00
15 16 17 18 19	North Shore Princeton Brauch of Washington Co. Ry. (U.S.) Salisbury & Albert. Temiscouata York & Carleton.	8 63 5 10 45 00 44 00 10 50	8.63 5.10 50.00 44.00 10.50	• • • • • •	*5*00
	Total	1,521 · 65	1,547 · 25		25.60

<sup>\*</sup> Yard tracks.

Table 3.—Summary of Single-track Railway Mileage owned in Provinces for the Year ending June 30, 1910.—Canada—Continued.

## QUEBEC.

er.	Name of Railway.	Mileage or Queb on Jun	ec	Increase.	Decrease
Number.		1910.	1909.		
2	Atlantic and Lake Superior.  Atlantic, Quebec and Western	100.00 35.00 464.07	100°00 20°50 464°07	14.50	
4 5 6	Canadian Pacific. Canadian Northern Quebec. Carillon and Grenville.	1,031 · 20 348 · 67 13 · 00	939 · 80 266 · 80 13 · 00	91·40 81·87	
8	Grand Trunk Grand Trunk (Canada Atlantic) Hereford. Lotbinière and Megantic	$\begin{array}{c c} 451.40 \\ 66.38 \\ 52.18 \\ 30.00 \end{array}$	451 '40 66 '38 52 '85 30 '00		67
$\frac{11}{12}$	Massawappi Valley Montreal and Atlantic Montreal and Province Line	35·46 163·40 58·60	\$5.46 163.40 58.60		
14 15 16	Montreal and Vermont Junctiou  Napierville Junction  Orford Mountain, now included in Can. Pac. Ry.	23.60	23.60 27.06 55.10		55.10
18 19	Phillipsburg Railway and Quarry Co. Quebec Central. Quebec and Lake St. John. Quebec Railway, Light and Power Co.	$\begin{array}{c c} 6.00 \\ 222.00 \\ 286.50 \\ 27.00 \end{array}$	6:00 222:00 286:50 27:00		
21 22 23	Quebec, Montreal and Southern	191·91 3·39 43 00	191·91 3·39 43·00		
24 25	St. Lawrence and Adirondack  Temiscouata	46 12 69 00	46·12 69·00		
	Total	3,794-94	3,662.94	187.77	55.77

Table 3.—Summary of Single-track Railway Mileage ownel in Provinces for the Year ending June 30, 1910.—Canada—Continued.

## ONTARIO.

л.	Name of Railway.	Mileage o Onta on Jur	rio	Increase.	Decrease
Number.		1910.	1909.		
1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27	Algoma Central and Hudson Bay Bay of Quinté Bessemer and Barry's Bay. Brockville, Westport and Northwestern Bruce Mines and Algoma. Canada Southern. Canadian Northern. Canadian Northern Ontario. Canadian Pacific. Central Ontario, and Marmora Railway and Mining Co. Grand Trunk. Grand Trunk (Canada Atlantic). Irondale, Bancroft and Ottawa Kingston and Pembroke. Lake Erie and Detroit River, and London and Port Stanley Maganetawan River. Manitoulin and North Shore Nosbonsing and Nipissing. Ottawa and New York Pontiac and Renfrew Schomberg and Aurora St. Clair Tunnel and approaches Temiskaming and Northern Ontario. Thousand Islands Toronto, Hamilton and Buffalo	89 64 89 37 5 00 45 00 17 28 382 19 353 70 342 20 2,881 90 140 13 9 60 2,643 56 389 88 48 00 109 80 198 81 22 66 1 91 22 70 5 50 56 90 4 25 246 14 6 33 80 15	89 · 64 89 · 37 5 · 00 45 · 00 17 · 28 382 · 19 353 · 70 332 · 73 2,881 · 50 140 · 13 9 · 60 2,657 · 04 389 · 88 48 · 00 109 · 80 109 · 80 1 · 191 1 · 15 · 83 5 · 50 5 · 6 · 90 4 · 25 14 · 40 2 · 25 26 · 74 6 · 33 8 · 66	9·47 ·40 6·87	13.48
	Total	8,230 · 25	8,229:11	4:66	3:52

Table 3.—Summary of Single-track Railway Mileage owned in Provinces for the Year ending June 30, 1910.—Canada—Continued.

## MANITOBA.

er.	Name of Railway.	Mileage of Mant on Jun	toba	Increase.	Decrease.
Number		1910.	1909.		
3	Brandon, Saskatchewan and Hudson Bay	69:45 1,530:90 1,528:50 91:77	69°45 1,522°08 1,522°00 91°77	8·82 6·50	
	Total	3,220 62	3,205:30	15:32	

## SASKATCHEWAN.

er.	Name of Railway.	Mileage of Saskate on Jun	hewan	Increase.	Decrease.
Number.		1910.	1909.		
1 2	Canadian Northern	1,182·50 1,749·40 2,931·90	1,006:44 1,624:90 2,631 34	176.06 124.50 300.56	

#### ALBERTA.

er.	Name of Railway.	Mileage of Albe	rta	Increase.	Decrease.
Number.		1910.	1909.		
3	Alberta Railway and Irrigation Co. Canadian Northern Canadian Pacific. Edmonton, Yukon and Pacific.	111 · 82 214 · 20 1,157 · 90 4 · 50	111 · 82 214 · 20 991 · 00 4 · 50	166-90	
	Total	1,488 · 42	1,321.52	166.90	

Table 3.—Summary of Single-track Railway Mileage owned in Provinces for the Year ending June 30, 1910.—Canada—Concluded..

#### BRITISH COLUMBIA.

er.	Name of Railway.	Mileage of British Con Jun	olumbia –	Increase.	Decrease.
Number.		1910.	1909.		
4 5 6 7 8 9	Bedlington and Nelson British Yukon Canadian Pacific. Crowsnest Southern Eastern British Columbia. Esquimalt and Nanaimo Kaslo and Slocan Kettle River Valley. Morrissey, Fernie and Michel Nelson and Fort Sheppard. New Westminster Southern. Red Mountain Spokane and British Columbia. Vancouver Copper Co.'s Ry. Vancouver, Victoria and Eastern Victoria and Sydney. Victoria Terminal Ry. and Ferry Co. Wellington Colliery Co.	15:30 31:22 1,212:50 74:18 16:00 78:00 23:37 18:50 10:85 55:42 24:10 9:59 3:70 12:00 219:40 16:26 1:14	23 · 97 31 · 22 1,208 · 90 74 · 18 14 · 00 78 · 00 23 · 37 20 · 00 10 · 85 55 · 42 24 · 10 9 · 59 3 · 70 12 · 00 178 · 49 16 · 26 1 · 14 10 · 75	3.60 2.00	8.67
	Total	1,832 · 28	1,795 94	46.51	10.17

## YUKON TERRITORY.

ber.	Name of Railway.	Mileage Yukon Ton Ju	owned in ferritory ne 30.	Increase.	Decrease.
Number.		1910.	1909.		
	British Yukon	59·10 31·81 90 91	59·10 31·81 90·91		

1 GEORGE V., A. 1911
TABLE 4.—Amount of Railway Capital at the

_						
	1	2	3	4	5	6
			Stocks.	Funded		
Number.	Name of Railway.	Amount Out- standing.	Amount per Mile of Line.	Proportion to Total Railway Capital.  100 × Col. 2 Col. 12.	Amount Out- stauding. Cols. 8+9+10+11	Amount per Mile of Line.
		\$	s	. р. с.	\$	\$
2	Alberta Ry. and Irrigation Co Algoma Central and Hudson Bay Atlantic, Quebec and Western	1,223,500 10,000,000 940,000	10,924 81,920 26,857	100 ° 00 56 ° 49 28 ° 70	7,703,763 2,231,970	66,656
5 6	Atlantic and Lake Superior	$1,395,000 \\ 1,000,000 \\ 125,000$	14,940 65,359 20,833	100.00	1,941,313 880,000	
8	Brandon, Saskatchewan & Hudson Bay *Brandon Transfer	2,120,000 12,600	30,526	100 00 100 00	1,957,460	20,114
11	British Yukon. Brockville, Westport and Northwestern Bruce Mines and Algoma.	2,934,119 900,000 99,000	30,149 20,000 5,729	66.66	450,000 194,000	10,000
13 14	Canada Atlantic, including— Ottawa, Arnprior and Parry Sound (G. T. Ry.) Central Counties	7,200,000 500,000	18,163 12,990	56.81	15,337,188 380,000	9,873
15 16 17	Pembroke Southern. Canada Southern. Canadian Government Ry's— Intercolonial	178,000 15,000,000	8,334 39,247	54.27	150,000 20,130,000	
18 19 20	Prince Edward Island Canadian Northern Canadian Northern Ontario	55,000,000 250,000	20,229 786	3.08	7,860,000	24,717
22 23	Canadian Northern Quebec. Canadian Pacific. Owned— Canada Central.	9,550,000 205,616,666	28,006 20,561	53.64	177,693,583 973,333	3,625 3,625
24 25 26	Montreal and Western  Leased— Atlantic and Northwest  Pritish Columbia Southern	5,000 3,416,000 172,200	9,877 821	33.52	6,775,066	19,586
$   \begin{array}{r}     27 \\     28 \\     29   \end{array} $	Calgary and Edmonton Cap de la Madeleine Columbia and Kootenay	$\begin{array}{c} 1,000,000 \\ 20,000 \\ 250,000 \end{array}$	$\begin{array}{c} 2,270 \\ 8,571 \\ 4,166 \end{array}$	10°90 100°00 16°30	8,158,894 1,277,500	18,548
30 31 32 33	Fredericton Great Northwest Ceutral	$\begin{array}{r} 1,000,000 \\ 319,280 \\ 500,000 \\ 125,000 \end{array}$	14,447 4,475	76 · 17 26 · 66	100,000 1,375,000	4,525
34 35 36	Guelph Junction Kootenay and Arrowhead Lindsay, Bobcaygeon and	21,000 1,000,000	1,354 30,120	16.82 56.18	173,000 780,000	23,494
37 38	Manitoba Southwest Coloniza- tion	6,872,814	20,108 3,256	55·60 51·04	5,489,153 2,616,000	16,059 12,167
39 40 41 42	Montreal and Ottawa Nakusp and Slocan	$\begin{bmatrix} 25,000 \\ 227,200 \\ 300,000 \\ 4,780,800 \end{bmatrix}$	2,272 $2,430$ $8,219$	$egin{array}{cccc} 20.00 & & & & & & & & & & & & & & & & & &$	$\begin{array}{c} 1,636,250 \\ 647,074 \end{array}$	17,500 17,728
43 44 45	New Brunswick and Canada Nicola, Kamloops and Simil- kameen	2,179,867 250,000	18,318	92:77	170,000 1,175,000	1,429
10	2. C. Ollotta Colonialatologica		22,100		_,,	,

SESSIONAL PAPER No. 20b Close of the Year ending June 30, 1910.

							_ :
7	8	9	10	11	12	13	
DEBT.	Di	ESIGNATION OF	Funded Debt.	Summ			
Proportion to Total Railway Capital.  100 × Col. 5 Col. 12.	Bonds.	Mis- cellaneous Obligations.	Income Bonds.	Equipment Trust Obligations.	Total Railway Capital. Cols. 2 + 5.	Amount per Mile of Line. Cols. 3 + 6.	Number.
р. с.	8	\$	8	\$	\$	\$	
43.51 71.30 100.00 38.66	6,750,000 2,231,970 1,941,313 880,000	953.763			1,223,500 17,703,763 3,171,970 1,941,313 2,275,000 1,000,000 125,000	145,029 93,513 19,413 24,364 65,359	4 5 6
40.00	1,957,460				$\begin{array}{c} 2,120,000 \\ 12,600 \\ 4,891,579 \end{array}$		8 9 10
33 · 34 66 · 21	450,000 194,000				1,350,000 293,000		
68 06 43 19 45 73 57 31	15,337,188 380,000 150,000 20,130,000		• • • • • • • • • • • • • • • • • • • •		22,537,188 880,000 328,000 35,130,000	22,863 15,356	14
63°44 96°92 47°74 46°36	77,548,260 7,860,000 8,725,511 176,333,583	6,742,080		11,121,863	8,110,000 18,275,511	25,503 53,594	21
100°00 98°60	973,333 353,708				973,333 358,708		
66.48 87.22 89.10	6,775,066 1,175,000 8,158,894				$10,191,066 \\ 1,347,200 \\ 9,158,894 \\ 20,000$	$\begin{array}{c} 6,421 \\ 20,818 \\ 8,571 \end{array}$	26 27 28
83°70 85°06 23°83 73°34 95°08 89°18 43°82	5,691,000 100,000 1,375,000 2,415,000 173,000				1,527,500 6,691,000 419,280 1,875,000 2,540,000 194,000 1,780,000	$\begin{array}{c} 42,590 \\ 18,972 \\ 16,784 \\ 31,789 \\ 12,515 \end{array}$	31 32 33 34
71 44 44 40	500,000 5,489,153				700,000 12,361,967		36 37
78 · 96 80 · 00 87 · 80 68 . 33 62 · 07 7 · 23	$\begin{array}{c} 100,000 \\ 1,636,250 \\ 647,074 \\ 7.821.127 \end{array}$				3,316,000 125,000 1,863,450 947,074 12,601,927 2,349,867	$\begin{array}{c} 11,362 \\ 19,930 \\ 25,947 \\ 28,621 \end{array}$	39
82:46 78:86	1,175,000 1,118,000				1,425,000 1,418,000		

1 GEORGE V., A. 1911
TABLE 4.—Amount of Railway Capital at the

_								
	1	2	3	4	5	6		
			Ѕтоск.	Funded				
Number.	Name of Railway.	Amount Out- standing.	Amount per Mile of Line.	Proportion to Total Railway Capital.  100 × Col. 2 Col. 12.	Amouut Out- standing. Cols. S+9+10+11	Amount per Mile of Line.		
	Canadian Pacific—Con.	8	8	p. c.	s	\$		
46 47 48 49	Leased—Con. Ontario and Quebec Ottawa, Northern and Western Shuswap and Okanagan St. John Bridge aud Ry.	2,000,000 1,300,000 750,000	2,946 8,207 14,763	30.00	19,502,591 3,075,000 1,139,253			
50 51 52	Extension St. John and Maine. St. Lawrence and Cttawa St. Mary's and Western On-	200,000 2,654,153 789,909	100,000 28,296 13,549	92.43	125,000 216,664 973,334	62,500 2,310 16,695		
53	st. Stephen and Milltown	250,000 50,000	16,393 10,870		198,250	13,000		
54 55 56 57 58	Tilsonburg, Lake Erie and Pacific., Tobique Valley. Toronto, Grey and Bruce Vancouver and Lulu Islaud Walkerton and Lucknow	400,000 29,900 785,490 25,000 19,000	11,976 1,068 4,127 1,480 504		1,000,000 $280,000$ $3,500,000$ $280,000$ $740,000$	10,000 18,392 16,568		
59 60	West Ontario Pacific Berlin, Waterloo, Wellesley	21,000	789	100.00		19,628		
61 62	and Lake Huron Georgian Bay and Seaboard Orford Mountain	500,000 250,000 501,000	38,461 19,230 9,109	54.00 38.52 41.64	$\begin{array}{r} 426,000 \\ 399,000 \\ 702,000 \end{array}$			
64 65	*Central of Canada Cape Breton	526,000 1,000,000 950,000	32,258 13,286	$100.00 \\ 100.00 \\ 62.30$	546,900			
67 68	Carillon and Grenville Central Ontario and Marmora Ry. and Mining Co Crowsnest Southern.	$\begin{array}{c} 200,000 \\ 3,340,000 \\ 115,421 \\ 4,180,000 \end{array}$	15,385 23,857 11,542 56,349	100°00 76°96 53°11 100°00	1,000,000 100,000			
$\frac{70}{71}$	Commerciand Ry. and Coal Co Dominion Atlantic Elgin and Havelock	500,000 2,433,333 44,900	15,625 9,892 1,603	52.00 31.10 47.30	489,500 5,364,040 50,000			
73 74	Eastern British Columbia Esquimalt and Nanainno *Erie, London and Tilsonburg	420,000 $2,500,000$ $12,500$	30,000 32,501	50.00 100.00 100.00	420,000			
76	*Fort William Terminal	12,500 $12,500$ $222,151,134$ $2,555,657$		100.00 61.40	139,889,145 3,716,955			
79 80 81	Great Western Midland, Ontario Northern							
82 83	Owen Sound Branch			9.76	100,000 462,500	8,064 36,161		
86	*Grand Trunk Pacific Gulf Shore	24,942,000 6,250	390	23·95 100·00	79,167,857	•••••		
88 89	*Ha-Ha Bay Halifax and Southwestern Hereford *Huron and Ontario	600,000 1,000,000 800,000 3,000,000	2,704 15,137	$ \begin{array}{r} 100 \ 00 \\ 18.72 \\ 50.00 \\ 95.24 \end{array} $	4,341,954 800,000 150,000	11,741 15,137		
91 92	*Indian River  *International of New Brunswick Inverness Ry. and Coal Co	15,000 $15,000$ $1,320,000$ $7,500,000$		100.00 59.56 78.00	896,000 2,115,000			
94	1rondale, Bancroft and Ottawa Kaslo and Slocan	53,500 1,000,000	1,114 42.735	10 · 62 57 · 15	450,000	9,375 32,051		

<sup>\*</sup> Under construction.

SESSIONAL PAPER No. 206

# Close of the Year ending June 30, 1910—Continued.

		)		ł		1		
7	8	9	10	11	12	13		
DEBT.	D	ESIGNATION OF	Funded Debt		Summ	Summary.		
Proportion to Total Railway Capital.  100 × Col. 5 Col. 12.	Bonds.	Mis- cellaneous Obligations.	Income Bonds.	Equipment Trust Obligations.	Total Railway Capital. Cols. 2 + 5	Amount per Mile of Line. Cols. 3 + 6	Number.	
р. с.	\$	\$	\$	\$	\$	8		
90:74 70:00 60:00	19,502,591 3,075,000 1,139,253				21,502,591 4,375,000 1,889,253		46 47 48	
38·46 7·57 55·21	125,000 216,664 973,334				325,000 2,870,817 1,763,243	30,606	49 50 51	
44:30	198,250				448,250 50,000	29,393 10,870	52 53	
68 50 90 35 81 68 91 80 97 50	1,000,000 280,000 3,500,000 280,000 740,000				1,400,000 309,900 4,285,490 305,000 759,000 21,000	11,068 22,519 18,048 20,132	54 55 56 57 58 59	
46.00 61.48 58.36	426,000 399,000 702,000				926,000 649,000 1,203,000 526,000	71,230, 49,922 21,873	60 61 62 63	
37.70	500,000				1,000,000 1,496,900 200,000	32,258 21,328 15,385	64 65 66	
23·04 46·89	1,000,000 100,000				4,340,000 215,421 4,180,000	31,000 21,542 56,349	67 68 69	
48:00 68:90 52:70 50:00	489,500 4,901,706 50,000 420,000	462,334			989,506 7,797,373 94,900 840,000	30,953 31,522 3,389 60,000	70 71 72 73	
38.60					$\begin{array}{c} 2,500,000 \\ 12,500 \\ 12,500 \end{array}$	32,501	74 75 76	
59.26	3,716,955	* * * * * * * * * * * * * * * * * * * *			362,040,279 6,272,612	122,845 38,887	77 78 79	
100 00 90 24	100,000	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		100,000 512,500	8,064 40,070	80 81 82 83	
76.05	79,167,857				104, 109, 857 6,250	390	84 85 86	
81·28 50·00 4·76	4,341,954 800.000	150,000		• • • • • • • • • • • • • • • • • • • •	$\begin{pmatrix} 600,000 \\ 5,341,954 \\ 1,600,900 \\ 3,150,000 \end{pmatrix}$	14,445 30,274	87 88 89 90	
40°44 22°00 89°38	896,000 2,115,000 450,000				15,000 2,216,000 9,615,000 503,500	146,794 10,489	91 92 93 94	
42.85	750,000				1,750,000	74,786	95	

1 GEORGE V., A. 1911
TABLE 4.—Amount of Railway Capital at the

	1	2	3	4	5	6
			STOCKS.			FUNLED
Number.	Name of Railway.	Amount Out- standing.	Amount per Mileof Line.	Proportion to Total Railway Capital,  100 × Col. 2  Col. 12.	Out-	Amount per Mile of Line.
		\$	8	р. с.	\$	8
	Kent Northern and	75,000	2,777	66:40		1,407
97 98	Kettle River Valley	20,000 375,000	2,857 18,750	100.00 46.01	440,000	22,000
99	Kingston and Pembroke	3,393,550	30,907	85.57	572,000	5,209 $35,202$
	Lake Erie and Detroit River, and	1,375,000 1,400,000	44,355 7,042		1,091,250 $3,016,000$	15,170
	Liverpool and Milton.	1,332,854 30,300	56,409 5,050		5,000	833
104	Lotbinière and Megantic	50,000	1,666	100.00		
105 106	Maganetawan River Manitoba (Canadian Northern)	30,000 $1,432,200$	15,706 4,086			15,911
107	Mauitoulin and North Shore	200,000	8,819	33.06	405,000	17,841
108	Maritime Coal and Railway Co Massawippi Valley	2,000,000 $800,000$	133,333	72.00 $100.00$		51,633
110	Midland of Manitoba	204,000	22,560 22,229			
111 112	Moncton and Buctouche	250,000 3,200,000	7,812 31,098			
113	Lake Champlain and St. Law- rence Junction	600,000	9,917	61.35	378,000	6,248
	Montreal and Province Line	1,000,000	17,064	83.33	200,000	4,926
115 116	Montreal and Vermont Junction Morrissey, Fernie and Michel	1,000,000 1,263,000	$\begin{array}{r} 42,373 \\ 217,010 \end{array}$	66166 95192		
117	Napierville Junction	600,000	22,173	100.00		
118	Nelson and Fort Sheppard New Brunswick and P.E. Island	1,500,000 $214,850$	27,066 $5,968$		1,293,000 $71,000$	23,331 1,972
120	New Brunswick Southern	49,000				
121	New Brunswick Coal and R'ly. Co. New Westminster Southern	† 600,000	24,896	100.00		• • • • • • • • • •
123	North Shore	98,000	11,355	73.68	35,000	4,056
-125	Nosbonsing and Nipissing Nova Scotia Steel and Coal Co.'s	250,000	45,455	100.00		
126	Railway. Ottawa and New York	1,000,000	17,575	38.46	1,600,000	28,119
-127	*Pacific, Northern and Omenica	60,000		100.00	5,870,000	
	Père Marquette (in Canada) Phillipsburg Ry. and Quarry Co	124,500	20,750	100.00		29,500
130	Pontiac and Renfrew Princeton Branch of the Washing-	20,000	4,706			
101	ton Co. Railway (U.S.)	86,950	17,049	50.00	86,950	17;049
132	*Quinze and Blanche River, Qu'Appelle, Long Lake and Saskat-	125,000		100.00		
	chewan (C.N.R.)	201,100	787	3.80		19,896
134 135	Quebec Central	3,381,603 4,524,000	15,233 15,790	35·17 37·00		28,079 26,886
136	Quebec Ry., Light and Power Co.,	3,250,000	120,000	56.28	-2,517,299	93,259
	*Quebec and New Brunswick Quebec, Montreal and Southern	387,900 1,000,000	5,211	100.00		
139	Red Mountain	190,600	19,874	46.76	217,000	22.628
	Rutland and Noyan	100,000 150,000	$ \begin{array}{r} 29,499 \\ 3,333 \end{array} $			29,499
142	Schomberg and Aurora	250,000	17,611	45.90	300,000	20,833
	Stanstead, Shefford and Chambly.	608,750 350,000	14,157 $155,555$	46 · 60 12 · 28		16,220 1,111,111

<sup>†</sup>Owned and operated by New Brunswick Government. \* Under construction.

Close of the Year ending June 30, 1910—Continued.

7	8	9	10	11	12	13	
Dквт.	υ	ESIGNATION OF	FUNDED DEBT	,	Summary,		
Proportion to Total Railway Capital.  100 × Col. 5  Col. 12.	Bonds.	Miscellaneous Obligations.	Income Bonds.	Equipment Trust Obligations.	Total Railway Capital. Col. 2+5.	Amount per Mile of Line. Cols. 3+6.	No.
р, с,	8	\$	\$	8	\$	\$	
33.60	38,000				113,006		
53.99					20,000 $815,000$		5
14 43	572,000				3,965,550	36,116	
44.24					2,466,250 $4,416,000$		10
					1,332,854	56,409	10
14.16	5,000				35,300 50,000		
					30,000	15,706	10
79:57  66:94	5,576,800				7,009,000 605,000		
28.00					2,774,500	184,966	10
			[		800,000 204,000		10
19.35	60,000				310,000	9,687	11
28.66	1,065,000				4,265,000	41,448	11
38.65					978,000		
16.67 33.34	200,000 500,000				1,200,000 $1,500,000$		
4.08	42,500				1,305,500	224,312	11
46.29					600,000 $2,793,000$		
24.84	71,000				285,850	7,940	11
91.00					549,000 †	6,512	12
				K	600,000		12
26:32		· · · · · · · · · · · · · · · · · · ·			133,000 $250,000$		
						1.5,	
61.54	1,325,000		275,000		2,600,000	45,694	12
					60,000		1 12
100.00	5,870,000				5,870,000 $124,500$		
					20,000		
50.00	86,950				173,900	34,098	13
					125,000		13
96 20	5,083,582				5,284,682	20,683	13
64.83	4,588,473		1,644,933		9,615,009 12,226,960	43,312	
63 · 00 43 · 72	$\begin{array}{r} 4,586,347 \\ 2,500,000 \end{array}$		3,116,613	7,299	5,767,299 387,900	$egin{array}{lll} & 42,676 \ 213,259 \end{array}$	13
							$\begin{vmatrix} 13 \\ 13 \end{vmatrix}$
53.24	217,000				1,000,000 $407,600$	42,502	13
50.00	100,000				200,000	58,998	14
54.10	300,000		1		150,000 550,000		
53.40					1,306,211		

 $<sup>\</sup>ddagger$  General capital of the Nova–Scotia Steel and Coal Co.  $20\mathrm{B}\!-\!3$ 

1 GEORGE V., A. 1911
TABLE 4.—Amount of Railway Capital at the

1	2	3	4	5	6
		Stocks.			FUNDED
No.  Name of Railway.	Amount Out- standing.	Amount per Mile of Line.	100 × Col. 2	Out- standing.	Amount per Mile of Line.
	8	8	р. с.	8	s
145 St. Martins	99,000			90,000	3,000
146.*St. John Valley and River du Loup 147 St. Lawrence and Adirondack 148 Sydney and Louisburg (Dominion	34,932 1,230,655		100:00 57:37	\$14,418	27,862
Coal Co.)	+				
150 Temiscouata	1,000,000 60,000		24:41 51:85		
152 Toronto, Hamilton and Buffalo	2,500,000	29,582	36.80	4,280,000	
153 *Trans-Canada	37,700		100.00	92,466	7,705
155 Vancouver, Victoria and Eastern	10,000,000	45,579	100.00		
156 and Vancouver Westminster and Yukon	3,522,000	234,800	100.00		
Ferry Co	250		100:00		10 420
158 Victoria and Sidney, B.C 159 Wellington Colliery Co.'s Ry	103,000 250,000				18,450
160 York and Carleton	105,000				
Final total	687,557,387			722,740,300	

<sup>\*</sup> Under construction. †Owned and operated by the Ontario Government. ‡General capital of

Close of the Year ending June 30, 1910—Concluded.

7	8	9	10	11	12	13	
DEBT.	D	ESIGNATION OF	Funded Debt.		SUMM	ARY.  Amount per Mile of Line.  Cols. 3 + 6.  8  6,300 145 146 65,359 147	
Propertion to Total Railway Capital.  100 × Col. 5 Col. 12.	Bonds,	Miscel- laneous obligations.	Income Bonds.	Equipment trust obligations.	Total Railway Capital. Cols. 2 + 5.	Amount per Mile of Line.	No.
р. е.	8	8	8	8	8	8	
47.62	90,000				189,000		
42.63	914,418				34,932 $2,145,073$		
75·59 48·15 63·20 100·00	3,699,669 58,000 4,280,000 92,466				# # 4,099,669 118,000 6,780,000 37,700 92,466 10,000,000	36,250 16,098 80,227 7,705	149 150 151 152 153 154
					3,522,000	234,800	156
73 00	300,000				250 403,000 250,000 105,000	24,784 23,259	159
	696,677,305	8,365,077	5,036,546	12,661,372	1,410,297,687		

the Dominion Coal Company.

1 GEORGE V., A. 1911
TABLE 5.—Statement of Aid granted and paid to Ruilways by

By Dominion Government,   Name of Railway.   Bonus Granted.   Bonus Paid up.   Loan.   Province.	Bonus Granted. \$ cts. 48,680 00 9,000 00 1,596,390 00
\$ cts. \$ cts. \$ cts.  1 Albert Southern 50,460 00 50,460 00 New Brunswick. 2 Harvey Branch 5,553 57 5,553 57 3 Alberta Ry. & Irrig'tn. Co. 148,094 00 118,094 00 4 Algoma Central & Hudson Bay 1,440,000 00 924,976 00 5 Atlantic & Lake Superior 828,435 84 828,435 84 Quebec 4 Vestern 365,568 00 365,568 00 7 Bay of Quinté. 350,455 25 350,455 25 Ontario. 8 Bedlington & Nelson (nil)	S cts. 48,680 00 9,000 00
1 Albert Southern 50,460 00 50,460 00 New Brunswick. 2 Harvey Branch. 5,553 57 5,553 57 3 Alberta Ry. & Irrig'tn. Co. 148,094 00 118,094 00 4 Algoma Central & Hudson Bay. 1,440,000 00 924,976 00 5 Atlantic & Lake Superior. 828,435 84 828,435 84 Quebec. 64tlantic, Quebec & Western 365,568 00 365,568 00 7 Bay of Quinté. 350,455 25 350,455 25 Ontario. 8 Bedlington & Nelson(nil)	48,680 00 9,000 00 
2 Harvey Branch	9,000 00
4 Algoma Central & Hudson Bay. 1,440,000 00 924,976 00  5 Atlantic & Lake Superior. 828,435 84 828,435 84 6 Atlantic, Quebec & Western 365,568 00 365,568 00 7 Bay of Quinté. 350,455 25 350,45 25 Ontario. 8 Bedlington & Nelson(nil)	1,596,390 00
6 Atlantic, Quebec & Western 365,568 00 305,568 00 7 Bav of Quinté,	1,590,590 00
8 Bedlington & Nelson(nil) 9 Brandon, Sask'n. & Hudson	84,000 00
Bay (nil).  10 *Brandon Transfer (nil).  11 British Yukon (nil)	
12 Brockville, Westport & 140,800 00 140,800 00 Ontario	50,918 00
13 Bruce Mines & Algoma 53,920 00 53,920 00	
15 Canada Atlantic (G. T. R.)	270,000 00 200,000 00
Sound 932,512 00 932,512 00 Outario.	577,326 06
18 Pembroke Southern. 64,000 00 64,000 00 "  19 Canada Southern, including 20 Sarnia, Chatham & Erie. "	55,500 00
21 Leamington & St. Clair 51,200 00 51,200 00 "	147,859 00
22 Intercolonial, including—       374,839 84	
25 Frederictou & St. Mary's Bridge	
27 Cauadian Northern. including.— 374,606 00 374,606 00	
28 Winnipeg Great North'rn 29 Port Arthur, Duluth & Western	255,571 00
30 Ontario & Rainy River. 1,534,526 00 1,534,526 00	1,072,800 00 641,575 25
32 Canadian Northern Ont.       2,255,360 00 2,123,942 40       Ontario.       **         33 Canadian Northern Que.       1,789,540 35 1,789,540 35       Quebec.       Quebec.         34 Canadian Pacific       29,750,506 00 29,750,506 00 Manitoba.       Manitoba.       **	1,194,129 46 375,377 50
Owned-Canada Central   1,525,250 00   1,525,250 00   Cutario   Outario   O	37,500 00 1,479,000 00
Colonization 310,335 95 310,335 95 Quebec	350,076 82
38 Montreal & Western, 361,270 00 361,270 00 Quebec. Quebec. Quebec	472,500 00 727,000 00
40 LeasedAtlantic&North West	711 122 02
42 Columbia & Kooten y. 88,800 00 88,800 00	531,000 00
44         Fredericton.         New Brunswick.           45         Guelph & Goderich.         Ontario.           46         Guelph Junction.         51,200 00 46,000 00         "	230,000 00
47 Lindsay, Bobcaygeon & Pontypool. 185,173 06 185,173 06	52,500 00

<sup>\*\*</sup> Oatario Government guarantees Bonds, 268 wiles at \$20,000 per mile.

Governments and Municipalities to June 30, 191).

By Provincial	Governments	ı.,		By Munic	PALITIES.	
Bonus Paid up.	Loan.	Subscription to Shares.	Bonus Granted.	Bonus Paid up.	Loan.	Subscription to Shares.
\$ cts.	\$ ets.	S ets.	S ets.	š cts.	\$ cts.	\$ ets.
48,680 00		·				
9,000 00				• • • • • • • • • • • • • • • • • • •		
947,199 25				9,000 00		
84,000 00	• • • • • • • • • • • • • • • • • • • •		107 000 .12	107 000 12		
		,	197,000 40	197,990 43		
• • • • • • • • • • • • • • • • • • • •						
			116,000 00	116,000 00		
50,918 00			500 00	500 00		
270,000 00						
200 000 -01			154,392 00	152,900 00		32,000 (0)
577,326 06						
			24,000 00	24,000 00		
55,500 00 .			20,000 00	20,000 00		
			322,500 00	322,500 00		
147,859 00 .						• • • • • • • • • • • • • • • • • • • •
			15,000 00	15,000 00		
•						
255,571 00			40,000 00	40,000 00		
1,072,800 00			50,000 00	50,000 00	• • • • • • • • • • • • • • • • • • • •	
**			20,000 00	20,000 00		
1,194,129 46			72,000 00	72,000 00		200,000 00
$\begin{bmatrix} 372,157 & 50 \\ 37,500 & 00 \end{bmatrix}$			572,500 00	464,761 29		
1,479,000 00						42,500 00
350,076 82 .						
472,500 00 .						
						*****
727,000 00	1,176,956 00		25,000 00	25,000-00	771,644 62	
						325,000 00
531,000 00 .			1,085,000 00	1,085,000 00		
			80,000 00 31,000 00			
					*****	193,000 00
			73,000 00			

<sup>†</sup> This amount was paid for 6,793,014 acres of land relinquished by Company.

1 GEORGE V., A. 1911 Table 5.—Statement of Aid Granted and Paid to Railways

31.	Name of Railway	Br Do	MINION GOVEI	RNMENT.	Name of	Bonus
Number.		Bonus Granted.	Bonus Paid up.	Loan.	Province.	Granted.
48	Can. Pacific—Leased Lines —Continued.  Manitoba & North-					\$ ets.
49	western					
50	Montreal & Lake Mas- kinougé	41,280 00	41,280 00	)	Onehec	87.750.00
51	Montreal & Ottawa	192,000 00	192,000 60		Ontario	$\begin{array}{c} 100,000 \ 00 \\ 182,210 \ 00 \end{array}$
52	Nakusp & Slocan	121,600 00	117,760 00	)	British Columbia	182,210 00
53 54	New Brunswick				New Brunswick.	76,000 00
55	ada	ean san ua		[		575,000 00
56	Similkameen Northern Colonization.	360,800 00 355,200 00	355,200.00		Onebec	96 000 00
57	Ontario & Quebec	196,000 00	196,000 00		Quebec Ontario	
58 59	Ottawa, Northern & Western	959,000 00		••••••	1.0	
	ern				Manitoba	
60 61	Shuswap & Okanagan St. John Bridge and		163,200 00		AT	
62	St John & Maine			433,900 00	New Brunswick.	18 181,6
63	Ry. extension St. John & Maine St. Lawrence & Ottawa				Ontario	
64	Ontario	67,344 00				
66	St. Stephen & Mill- town Tilsonburg, Lake Erie	14,848 00	*14,848 00		New Brunswick.	13,920 00
	& Pacific	158,871 48	117,431 48		Ontario	38,564 60
67	Tobique Valley	134,016 00	134,016 00		New Brunswick.	70,000 00
68	Toronto, Grey & Bruce West Ontario Pacific .	$\begin{array}{c} 14,656 \ 00 \\ 60,000 \ 00 \end{array}$			Ontario	375,282 00
70	Orford Mountain	192,942 50	192,942 50		Quebec	138,884 92
	Cape Breton	196,800 00	196,800 00		Nova Scotia New Brunswick.	99,200 00
	Caraquet	224,000 00	224,000 00		New Brunswick.	180,000 00
	Carillon & Grenville(nil) Central Ontario, and Marmora Ry. & Mining	179,466 00	179,466 00		Ontario	263,000 00
	Co	30,720 00. 12,800 00.	30,720 00 12,800 00			19,149 39
77	Crowsnest Southern (nil)					
	Cumberland Ry. & Coal Co. Dominion Atlantic, includ- ing—	44,800 00			Nova Scotia	
80	Windsor & Annapolis	1,193,369 00	1,193,369 00		Nova Scotia	
81 82	Cornwallis Valley	44.800 00	44,800 00	,	11	44,800 00
83	Western Counties Midland of Nova Scotia	500,000 00 399,060 40	399.060.40	,	0	679,197 45 185,600 00
	Eastern British Columbia (nil)	<i>'</i>	000,000 10			100,700 00
S5	Edmonton, Yukon & Pacific (C. N. R.)	160,000 00	91 200 06			
86	Elgin & Havelock	*82,652 82	*82,652 82		New Brunswick.	107,500 00
87	Esquimalt & Nanaimo Grand Trunk (in Canada)	750,000 00	750,000 00		,	• • • • • • • • • • • • • • • • • • • •
89	including— Beauharnois Junction	62,400 00	62 400 00	19,142,033 33	Quebec	179,073 00
90	Brantford, Norfolk &					
91 92	Port Burwell					68,000 00
02	Marmora				11	18,740 00
	* Includes used iron rails					

by Governments and Municipalities to June 30, 1910-Continued.

By Provincial Governments.

By Municipalities.

Bonus Paid up.	Loan.	Subscription to Shares.	Bonus Granted.	Bonus Paid up.	Loan.	Subscription to Shares.
				·		
8 etc	\$ ets.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	S ets.
			215,600_00	215,600 00		
	900,000 00					• • • • • • • • • • • • • • • • • • • •
87,750 00 100,000 00					······································	
182,210 00	647,074 00	• • • • • • • • • • • • • • • • • • • •	5,300 00			
			23,000 00	,		
575,000-00			47,500 00	47,500 (0)	•••••	
96,000 00						
50,000 00		• • • • • • • • • • • • • • • • • • • •	52,500 00 150,000 00			
1,192,672 58			101,000 00	100,000 00	}	
			10,000 00	10,000 00		
5,181-81						
\$80,000 00		300,000 00			300,000 00	60,000-00 90,000-00
			80,000-00	77,996 39		
13,920 00						
38,564 60			75,000 00	75,000 00		
70,009 00' 375,282 00			988,000 00	969,561 44		
138,884 92			25,000 00 3,000 00	25,000 00° 3,000 00		
99,200 00 180,000 00			10,000 00	10,000 00	• • • • • • • • • • • • • • • • • • • •	
263,000 00			93,500 00	93,500 00		
19,149 39						
			• • • • • • • • • • • • • • • • • • • •			
173,650 00						
44.000.00			108 406			
$\begin{array}{c} 44,800 \ 00 \\ 679,197 \ 45 \end{array}$		• • • • • • • • • • • • • • • • • • • •	27,685 00 250,000 00	250,000 00.		
183,510 40			36,000 00	36,000 00		
107,500 00			13,000 00	13,000 00		
		• • • • • • • • • • • • • • • • • • • •				
179,073 00						
68,000 00			0.00 000 00	0.00 0.00		
18,740 00	26,000 00		966,000 00 113,500 00	966,000 00 113,500 00		

1 GEORGE V., A. 1911 TABLE 5.—STATEMENT of Aid granted and paid to Railways

_	======================================					
1	V (D)	Br Do	MINION GOVER	NMENT.	Name	
Number.	Name of Railway.	Bonus Granted.	Bonus Paid up.	Loan.	of Province.	Bonus Granted.
93	Grand Trunk, Victoria	\$ ets.	\$ ets.	S ets.		\$ ets.
94	Jubilee Bridge Grand Trunk, Georgian	500,000 00				992 000 00
95	Bay & Lake Erie Grand Junction, Belleville & North Hastings	21,888 00	21,888 00		0	336,000 00 224,660 0
96 97 98	Grand Junction, Belleville & North Hastings Owen Sound Branch Great Western Hamilton & Northwest	39,744 00	39,744 00			
99	ern & Bruce.					178,630 00
100 101	Midland Ontario  Montreal & Champlain Junction	103,600 00	103,600 00		Quebec	168,350 00 150,000 00
$102 \\ 103 \\ 104$	Northern				Ontario	196,188 00 83,300 00
105	Northern Pacific Junction South Norfolk Toronto Belt Line Toronto & Nipissing	1,320,000 00 54,400 00	1,320,000 00 54,400 00		Ontario	
106 107 108						
$109 \\ 110 \\ 111$	Victoria Waterloo Junction. Wellington, Grey & Bruce	32,800 00	32,800 00		11	312,000 00
112	Bruce					241,276 00 94,957 59
114	Gulf Shore	966,620 16 53,699 20 819,874 93	53,699 20		Ontario New Brunswick. Nova Scotia	376,320 00 41,950 00 3,883,405 00
116	including— Central of N. S. & Nova Scotia Southern	653,776 00	653,776 00		11	
117 118	Halifax & Yarmouth Middleton & Victoria Beach	160,000 00 125,760 00				156,499 33 96,000 00
-120	Hampton and St. Martins. Hereford Inverness Ry. & Coal Co.,	†83,612 54	†83,612 54 170,560 00		New Brunswick. Quebec	145,600 00 103,000 00
	*International of New Brunswick	627,000 00 556,544 00	· '		Nova Scotia New Brunswick.	272,000 (0) 218,700 00
123	Irondale, Bancroft & Ottawa.  Kaslo & Slocan (uil)	144,000 00			Ontario.	315,000 00
125	Kaslo & Slocan (ull) Kent Northern	†58,334 27 22,400 00	†58,334 27 22,400 00		New Brunswick.	135,000 00 21,000 00
128	Kettle River Valley Kingston & Pembroke Klondike Mines	97,771 52 48,000 00 197,184 00	48,000 00		Ontario	456,493 00
130 131	L'Assomption (road abandoned) Lake Erie & Detroit River, London & Port Stanley	11,200 00 571,851 00			Ontario Ontario.	83,000 00
133	Lenora Mt. Sicker (Van- couver Copper Co.) (nil)	,				
135	Liverpool & Milton(nil) Lotbinière & Megantic Manitoba Great Northern(nil)	96,000 00	96,000 00		Quebec	126,994 00
138	Maganetawan River Manitoulin & North Shore, Maritime Coal & Ry. Co	$\begin{array}{c} 3,552 & 00 \\ 32,000 & 00 \\ 40,700 & 00 \end{array}$			Ontario Nova Scotia	10,000 00 39,788 00

<sup>†</sup> Used iron rails. \* Under construction.

by Government and Municipalities to June 30, 1910-Continued.

By Provincial	. Governments			By Munic	UNICIPALITIES.			
Bonus Paid up.	Loan.	Subscription to Shares.	Bonus Granted.	Bonus Paid up.	Loan.	Subscription to Shares.		
\$ cts.	8 cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets	\$ cts.		
336,000 00			929,000 00	929,000 00				
224,660 +0			213,000 00 85,500 00	213,000 00 85,500 00		50,000 00		
565,020 00			599,865 00	599,805 00				
178,630 00 168,350 00			311,500 00 144,870 85	311,500 00				
150,000 00 196,188 00 83,300 00			21,774 00 241,980 00	21,774 00 241,980 00		390,000 00		
			65,000 00	65,000 00				
105,212 00			376,702 59	376,702 59 100,000 00				
312,000 00			100,000 00 186,000 00 47,000 00	186,000 00 186,000 00 47,000 00				
241,276 00			682,000 00	682,000 00				
			222,094 93 309,000 00	222,094 93 300,000 00				
0,0,0,400			20.074.17	00 004 15				
156, 499 33			88,874 17 15,338 93	88,874 17 15,338 93		* * * * * * * * * * * * * * * * * * * *		
145,600 00 84,226 36		• • • • • • • • • • • • • • • • • • • •						
233,000 00			100,000 00	50,000 00				
218,700 00			5,000 00	5,000 00	• • • • • • • • • • • • • • • • • • • •			
135,000 00 135,000 00								
21,000 00  456,493 00		•••••	509,320 00	509,320 00				
83,000 00			356,500 00	356,500 00	1,332,854 00	414,000 00		
126,994 00								
10,000 00								
39,788 00								

# 1 GEORGE V., A. 1911

Table 5. Statement of Aid granted and paid to Railways

					_	
Ĩ.,	Name of Railway.	By Dox	HINION GOVER	NMENT.	Name of of	
Number	Availe of Hailway.	Bonns Granted.	Bonus Paid up.	Loan.	Province.	Bonns Granted.
		\$ ets.	s ets.	8 ets.		\$ cts.
141	Massawippi Valley	5,376 00 18,544 00	18,544 00		Quebec	
143	Lake Champlain & St. Lawrence Junction				u	250,280 00
145	Montreal & Province Line. Montreal & Vermont Junction					· · · · · · · · · · · · · · · · · · ·
147	Moncton & Buctouche Morrissey, Fernie & Michel(nil)	102,400 03	•		New Brunswick.	
148 149	Napierville Junction Nelson & Fort Sheppard (nil)	173,440 00	173,440 00		Quebec	
	New Brunswick & P.E.I . New Brunswick Coal & Ry. Co	113,440 00 190,400 00	· ·		New Brunswick	99,708 90
	New Brunswick Southern. New Westminster South-					413,000 00
154 155	ern	27,616 00	27,616 00	• • • • • • • • • • • • • • • • • • • •	New Brunswick.	16,200 00
	ing(nil) Nova Scotia Steel & Coal Co	40,000 00			Nova Scotia	40,000 00
158	Ottawa & New York Phillipsburg Ry. & Quarry	262,384 00 23,712 00			Ontario Quebec	35,000 00 25,667 00
160	Pontiac & Renfrew Princeton Branch of Washig'n Co. Ry. (U.S.)(nil)	13,600 00				17,433 60
$\frac{162}{163}$	*Quebec Bridge & Ry. Co . Quebec Central Quebec & Lake St. John	374,353 33 403,980 69 1,454,695 00	403,980 69		Quebec	250,000 00 1,076,123 14 2,533,000 00
164	Quebec Ry. Light and Power Co*Quebec & New Brunswick	96,000 00	96,000 00		Quebec	306,945 50
	Quebec, Montreal & South- ern, including United Counties, East	416,550 55	416,550 55		Quebec	210,000 00
16s	Richelieu Valley South Shore	69,952 00 296,993 38				115,215 00 276,645 00
$\frac{170}{171}$	Rutland & Noyan(nil) Salisbury & Albert	29,665 45 48,000 00	+29,391  01		New Brnnswick	455,000 00
173	Schomberg & Aurora Stanstead, Shefford and Chambly		· · · · · · · · · · · · · · · · · · ·			
175	St. Clair Tunnel* *St. John Valley & River du Loup	375,000 00			<u> </u>	
177	St. Lawrence & Adirondack St. Maurice Valley Sydney & Louisburg (Dom.	149,481 60 112,640 00			Quebec	70,400 00
	Coal Co.)	89,600 00	87,808 00		Nova Scotia	\$7,808 00
1.80	Temisconata	645.9.0.00	645,950 00		Quebec (New Brunsw'k	362,250 09
181	Thousand Islands Toronto, Hamilton and	645,9 0 00	29,840 00		(New Brunsw'k Ontario	66,000 00
1	Buffalo	57,600 00	57,600 00			
	* Under construction.	† Includes	\$14,663.45 us	ed rails.		

by Governments and Municipalities to June 30, 1910—Continued.

By Pro	vincial Gover	NMENTS.		Br Munic	TPAGITIES.	
Bonns Paid up.	Loan.	Subscription to Shares.	Bonns Granted.	Bonus Paid up.	Loan	Subscription to Shares.
\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ ets.
315,891 89						65,000 00 528,000 00
			51,000 00 25,000 00	36,000 00		
94,500 00						
			10,000 00	10,000 00		
99,708 9						
224,000 00 413,000 00			3,000 00	3,000 00		
16,200 00	•••••••	· · · · · · · · · · · · · · · · · · ·				
40,000 00 35,000 00			4,000 00 85,000 00	4,000 00		
25,667 00 17,433 60						
250,00 00 1,076,123 14 2,368,816 88			309,000 00 103,000 00 12,000 00	103,000 00		
306,945 50	• • • • • • • • • • • • • • • • • • • •					
207,565 00						• • • • • • • • • • • • • • • • • • • •
115,215 00 276,645 00			25,000 00			
455,000 00			70,000 00			
				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
70,400 00						
82,000 00			,			
362,250 00 66,000 00			25,000 00 10.000 00	25,000 00 10,000 00	}	
			268,000 00			

<sup>†</sup> Includes \$14,663.45 used iron rails.

1 GEORGE V., A. 1911
TABLE 5.—STATEMENT of Aid granted and paid to Railways

	Name of Paikuan	By Do	MINION GOVER	Name of		
Number	Name of Railway.	Bonus Granted.			Province.	
		\$ ets.	\$ ets	8 ets.		\$ ets.
	Vancouver, Victoria and					
184 185	Eastern					
186	Wellington Colliery Co's.  Ry(nil)  York & Carleton					
187	York & Carleton	32,896 00	32,896_00		New Brunswick.	25,247 00
	Final total	79,926,174 88	78,410,272 58	25,576,533 33		34,227,739 89

by Governments and Municipalities to June 30, 1910-Concluded.

By Provincial Governments.			By Municipalities.					
Bonus Paid up.	Loan.	Subscription to Shares.	Bonus Granted.	Bonus Paid up.	Loan.	Subscription to Shares.		
\$ cts.	\$ cts.	\$ ets.	\$ ets.	S ets.	\$ cts.	\$ ets.		
107,635 00			161,452 50	161,452 50				
25,247 00								
32,787,030 16	2,750,030 00	300,000 00	12,988,680 40	12,739,824 98	2,404,498 62	2,839,500 0		

1 GEORGE V., A. 1911

Table 6.—Income Account of Railways for the Year ending June 30, 1910, including Comparative Statement of Net Earnings.

ţw	Net Earnings.	1910. Cols. 5-6.	\$ cts.  136,999 07 108,682 02 70,982 02 70,982 03 70,982 03 113,199 03 113,199 03 111,189 03 111,189 03 113,19
9		Operating Expenses,	\$ cbs. 240,453 21 287,997 73 287,997 73 287,997 73 287,997 73 287,997 32 28,413 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 187 24 28,213 28 25 28,213 28 26 28,213 28 26 28,213 28 26 28,213 28 26 28,213 28 26 28,213 28 28 28,213 28 28,2
ñ		Total Gross, including other Earnings from Operation. Cols. 3 + 4 + A.	\$ 25.45
A	INGS.	Other Earnings from Operation.	\$ cts. 21,292 86 14,927 99 4488 15 20 97 5,854 12 193 38 10 09 82,081 4 92,96 98 1,095,861 13 1,1516,009 45 21 15 1,516,009 45 21 15 1,516,009 45 21 16 1,516,009 45 21 18 2,678 34 17,888 91
<del>+</del>	EARNINGS	Freight.	\$ c68. 28 4.546 64 28 47.866 64 47.866 64 47.866 64 47.866 64 67.448 89 64 120 10.05.206 93 10.105.2
ေ		Passenger.	\$ cts.  111,202 78 29,665 18 33,663 28 40,688 31 16,883 31 16,883 31 16,883 31 16,883 31 16,883 31 16,883 31 16,883 31 16,883 31 18,893 49 18,193 57 18,193
 1	Name of Railway.		Alberta Railway and Irrigation Co. Algema Central and Hudson Eay. Alamtic, Quebec and Western Eay of Quinte Bed May Colume Besener and Barry's Bay. British Vulkon. British Nukon. Brokville, Westport and Northwestern. Canadian Northern. Canadian Northern. Canadian Northern, Ontario. Canadian Northern, Quebec Canadian Anthreic Canadian Adiatic. Carillon and Grenville. Carillon Atlantic. Counberland Railway and Coal (*o. Counberland Railway and Coal (*o. Bigm and Havelock. Eastern British Columbia
		Zumber.	

Table 6.—Income Account of Railways for the Year ending June 30, 1910, including Comparative Statement of Net Earnings—Concluded.

t-	NET EARNINGS.	1910. Col. 5—6.	se cts.	1,887,77 62,748,60 594,855,24 6,460,78 429,845,41 19,298,41 19,298,41 607,105,98 10,000,00 2,003,00	53,550,776 71
y	Operating Expenses.			6,162,39 1,142,210 1,142,210 1,52,210 1,52,572 1,226,42 2,226,53 1,792,579 1,792,579 1,792,579 1,792,579 1,3865 2,3865 1,3865 2,3865 1,	120,405,440 42
io.		Total Gross, including other Farmings from Operation. Cols. 3+4+A.	S. cts.	3,274,62 231,625,62 1,737,065,40 37,361,54 1,018,417,90 637,932,52 4,525,63 4,555,69 2,399,685,27 73,498,26 5,868,00	173,956,217 13
<	EARNINGS.	Other Earnings from Operation.	& cts.	18 00 3,708 53 705,700 35 2,386 97 8,553 00 5,261 09 22 88 307 77 5,589 72	3,505,514 33
7	EARN	Preight.	& cts.	3,157,57 151,270,70 986,707,07 23,660,74 719,850,10 436,237,47 2,163,53 2,163,53 1,70,5648,01 1,726,648,01 1,726,648,01 1,726,648,01 3,448,30	117,494,484 29
00	Passenger.			76,646 39 693,657 58 11,193 83 290,013 83 290,193 83 20,738 21 20,738 21	52,956,218 51
	Name of Railway.			Spokane and British Columbia Temiscouata. Temiskanning and Northern Ontario Thousand Islands Tribousand Islands Toronto, Hamilton and Buffalo. Victoria Terminal Railway and Ferry Co. Victoria and Sidney, B.C. Wabach in Canada. Wellington Colliery Co.	Final total
)		Number.		825 88 88 88 88 88 88 88 88 88 88 88 88 88	

29.46 5.21 23.57 23.57 13.28

# Table 7.—Earnings and Income for the Year ending June 30, 1910.

Operating Revenues.

SESSIONAL PAPER No. 20b

00

Proportion to Total  $100 \times \text{Col. } 6.$ Earnings. Col. 16. p.c. 1.45781 .69219 (-54881 -25715 -42344 35811 33227 25303 11317  $\frac{.75820}{1.36916}$ .52802 07830 458888 53266 59783 24855 56620 Train Mile. Passenger Earnings t -838383 5225 cts 20,605 33,626 5,663 40,088 160 8 Passenger 33,338 7 78,283 32,199 168,175 4 2,631,993 E 5,000 3 18,309 8 1,257 89,382 8 23,774 16,207 2,634,309 283,002 3,234,156 Service Revenue. 51,944 27,557,231 Total := 00 REVENUE FROM TRANSPORTATION. 253 23 613 85 12,565 83 2022222222 1222 25 cts. Parlour and other Items. 4,551 87,969 5,553 6,315 20,292 Chair Car 1,103 Revenue 744 529 Baggage, 373,697 Excess and 4 20 6,839 72 1,146 93 1,916 68 24,256 80 96 27 2,244 17 32533553355355355355 282 34 cts. 1,141 2,150 2,150 145,904 7,735 14,657 972,743 0.000 1,420 1,120 391,337 Express. 10 G. 229, 229 23 229, 229 23 21, 568 90 77, 599 06 495 03 4,529 72 782,508 12 8 8 8 38888 3 93 38 cts. 1.043 86 2,892 1,046 2 1,293 3,605 3,380 2,367 4,499 6,637 Mail. + 22 675 2 962 2 963 2 173 2 173 2 173 2 173 2 173 1.467 2.219 1.691 1.764 2.200 2.200 1.856 1.821 2.775 2.775 2.117 2.107 3.524 845 Passenger tevenue Cents. per 3 27,169 78 2,114,844 54 2,133,163,164 1,38,150 17 2,57,490 68 24,474 54 15,477 54 15,47 040 cts. 138,160 8 257,499 6 24,428,281 8 20,597 ( 28,868 5,621 31,246 71,619 Passenger 901 Revenue. 03 Algenta Railway and Irrigation Co.
Algema Central and Hudson Bay
S. Atlantic, and Lake Superior.
4 Atlantic, Quebec and Western.
5 Bay of Quinte.
6 Bedlington and Nelson.
7 Besemer and Barry's Bay
8 Brandon, Saskatchewan and Hudson Bay.
9 British Yukon.
10 Brockville, Westport and Northwestern.
11 Canada Southern.
12 Canadian Government Railways—Intercolonial.
13
14 Canadian Northern.
15 " " Quebec.
17 Canadian Pacific.
18 Cape Breton.
19 Caraquet.
20 Carillon and Grenville.
21 Caraquet.
22 Crownest Southern.
23 Cumberland Railway and Coal Co.
23 Chumberland Railway and Coal Co.
24 Hominion Atlantic.
25 Elgin and Havelock. Name of Railway. | Number. 20B-4

Table 7.—Earnings and Income for the Year ending June 30, 1910—Continued.

∞ ∞		Proportion to Total Earnings 100 × Col. 6. Col. 16.	p.c.	1 GEORGE V., A. 1911 ESESSEESESESESES SELECTES ESESSEESESESESES SELECTES ESESSESESESESES SELECTES ESESSESESESESES ESESSESESESES ESESSESESESE
-		Passenger Farnings 10 Per Train Mile.	<b>6</b>	131333 15250 67250 67250 67250 73137 75213 72217 749124 11667 11667 11667 101888 3279 78885 78885 101873 30153 30153 30153 30153 30153 30153
9		Total Passenger Service Train Revenue.	& cts.	10,772,106 84,472 60,423 32,243 32,2447 33,2447 33,2447 33,2447 33,2447 34,245 34,245 34,247 34,247 34,247 34,247 34,247 34,247 34,247 34,247 34,247 34,347
V	REVENUE FROM TRANSPORTATION	Excess Baggage, Parlour and Chair Car Revenue and and	es cts.	254,996 08 15,925 29 5,927 20 2047 20 864 30 64 38 64 38 65 99 747 86 747 86 748 88 747 86 748 88 756 39 756 39 756 39 756 39 756 39
ro .	VENUE FROM T	Express.	& cts.	1,116,404 09 22,711 56 17,941 14 660 00 528 87 528 87 528 87 84 88 84 88 84 88 84 88 89 96 12,489 98 5,445 72 5,445 72
4	RE	Mail.	÷ cts.	366,605 75 23,205 06 2,3295 06 2,659 23 711 90 308 42 676 08 7,208 98 856 50 1,552 40 1,552 40 1,552 40 1,552 40 1,552 40 2,864 57 2,864 57 2,864 57 2,864 57 2,864 57
8		Revenue Per Passenger per mile.	Cents.	1.767.1 1.767.
¢ί		Passenger Revenue.	& cts.	3,842 100 3,034,100 92 3,99,23 41 18,676 69 14,676 69 2,1096 42 2,630 15 4,834 60 4,656 83 3,528 10 6,919 10 6,
1	Name of Railway.			26 Grand Trunk 28 Grand Trunk 29 Grand Trunk 29 Grand Trunk 29 Halitax and Southwestern 30 Hereford 31 Inverness Railway and Coal Co 32 Inverness Railway and Ottawa. 33 Kaslo and Slocan 34 Kent Northern 35 Kettle River Valley 36 Kingston and Pembroke 37 Klondike Mines 38 Liverpool and Milton 38 Lowlonieve and Migantic 40 London and Port Stanley 41 Manitoulin and North Shore 42 Maritime Coal, Ry, and Power Co 43 Massawippi Valley 44 Midland Ry, Co, of Manitoba now Manitoba Great Northean 45 Montreal and Atlantic 46 Montreal and Atlantic 47 Montreal and Pervince Line 48 Montreal and Bucctouche.

825.528 825.528 11.928 825.528 14.028 15.028 16.028		10.200 19.55.85.55.85.55.55 18.65.85.85.85.85.55	2	
. 29953 779501 21934 37673 44501 1 35810	04074 10801 16868 95198 55248	73923 81429 1 03162 1 23902 1 23902 1 380349 1 38949 2 30803 2 30803 2 30803 2 30803 2 30803 2 30803 2 30803 2 30803 2 30803	1.06397 7.3238 7.3238 7.3238 7.8237 1.82613 1.02613 1.02613 1.36623 91.777 93.534 7.2061	
5,062 65] 29,540 31] 15,425 52 9,738 58 23,187 72 14,547 96		237,429 29 367,967 19 237,473 69 14,041 87 120,012 3,867 60 9,421 38 11,730 22 4,659 51	697 697 697 697 698 698 698 698 698 798 798 798 798 798 798 798 798 798 7	52.956,218 51
26 89 707 31 	226 46 954 26 954 26 2,681 68	2, 090 59 1, 149 85 1, 137 95 1, 137 95 784 65	the state of the s	993,613 63
381 81 2,973 54 462 32 224 68 3,166 55 143 54	2,928 67 19,174 41	381 57 12,460 00 12,915 00 5,897 11 150 00 327 90	· · · · · · · · · · · · · · · · · · ·	4,143,837 52
376 92 1,497 60 1,281 22 933 81 2,685 36	312 00 246 48 4,245 17 8,311 86	194 50 19,099 40 13,319 62 292 00 87 36 2,353 92 1,735 09		1,799,887 80
2.716 3.570 2.659 2.352 2.367 3.587		1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		
4,277 03 24,356 86 13,681 98 8,580 09 17,665 61 11,631 04		6,767 65 331,172 83 205,599 49 14,041 87 107,100 84 2,970 84 9,184 02 8,970 45 4,659 54	652 652 652 652 653 645 645 645 645 645 645 645 645 645 645	46,018,879 56
50 Napierville Junction. 51 Nelson and Fort Sheppard. 52 New Brunswick Coal and Railway Co. 53 New Brunswick and Prince Edward Island. 554 New Brunswick Southern. 555 New Werminster Southern.	57 Nova Scotia Steel and Coal Co. 55 Orton Mountain 59 Ottawa and New York 61 Pich Marquette	62 Princeton Branch of Vashington Co. 63 Quebec Central. 63 Quebec Central. 65 Quebec and Lake St. John 65 Quebec Railway, Light and Power Co. 66 Quebec, Montreal and Southern 68 Rutland and Noyan 69 Salisbury and Albert 70 Schomberg and Aurora 71 Stanstead, Spefford and Chambly	72 St. Clair Tunnel. 73 St. Lawrence and Adirondack. 74 St. Martins. 75 Sydney and Louisburg. 76 Spokane and British Columbia. 77 Temiscousta. 78 Temiscousta. 78 Temiskamia and Northern Ontario. 79 Thousand Islands. 80 Toronto, Hamilton and Buffalo. 81 Vancouver, Victoria and Eastern. 82 Victoria Terminal Ry. and Ferry Co. 83 Victoria and Sydney, B C. 83 Victoria and Sydney, B C. 84 Wabash in Canada. 85 Wellington Colliery Co. 86 York and Carleton.	Final total

'YABLE 7.—EARNINGS and Income for the Year ending June 30, 1910—Continued.

						1	GEORGE V., A. 1911	
17	EVENUES.	Total Earn- ings per Train Mile.	\$6	$\begin{array}{c} 2.92335\\ 7.43107\\ 91502\\ 97227\\ 1.09176\\ .83394\\ 1.23686\\ \end{array}$	1.09408 $5.64429$	2.38864	1.40313 96955 2.37968 1.14479 1.63211 2.30007 3.7465 1.22196 1.88651 1.44895	
16	SUMMARY OF REVENUES.	Total Operating Revenues. Cols. 11 + 14 + 15.	& cts.	377,452 28 396,079 75 85,921 00 16,571 37 167,735 32 1,210 88 3,710 59	75,465 18 328,994 60	59,863 65 8,833,944 02	9,515,545,93 318,031,58 318,031,55 510,989,72 940,646,63 88,317,122,33 7,233,87 53,271,22 3,213,87 2,143,00 3,67,796,80 188,483,07	
15	REVENUE FROM OPERA- TION OTHER HAN TRANSPORTATION.	Telegraph, Rents and other Sources.	\$ cts.	13,250 38 79,751 49 4,488 15 3,404 26	4,075 83	10 00 5,405 92	66,857 20 255 23 1,068,776 52 15,550 29 1,207,566 23 7,652 77 1,552 77	
14	REVENUE FROM OPERA TION OTHER THAN TRANSPORTATION	Station and Train Privileges, Storage and Car Service.	ects.	8,042 48 61,176 50 20 97 2,449 86	136 25 127 55	26,675 52	33,139,78 674,55 27,084,61 891,4,641,83 308,443,22 21,81	
13		Proportion to Total Earnings. 100xCol.9xB Col. 16.	p.c.	55.61 55.61 65.63 72.61 100.00	55 · 64 74 · 93	46.20 69.81	61.36 66.73 67.68 67.08 67.08 83.14 86.33 84.13	
123		Freight Earn- ings per Tram Mile.	99	2 · 90349 4 · 51302 · 50911 · 63289 · 74190 · 72319	1.67922	.97889 3.05135	1.47707 80019 2.59161 1.37600 1.90502 2.66294 11668 80852 26517 20650	
11	REVENUE FROM TRANSPORTATION	Total Revenue from Trans- portation.	. \$ cts.	356,159 42 255,151 76 81,432 85 16,550 40 161,881 20 1,210 88 3,710 59	75,328 93 324,791 22	59,853 65 8,801,862 58	9,415,648 95 317,101 80 12,737,290 50 183,167 13 86,801,112 88 57,272 02 57,272 02 57,272 02 57,272 02 58,211 94 1,352 104 1,352 104	
æ		NUE FROM TI	Switching Revenue, Special Service Train Revenue and Miscel- lancous.	ets.	119,826 04	260 01	49,956 55	60,700 61 2,294 90 149,917 00 3,463 51, 5,105 08 339,821 39
10		Revenue per Tou per Mile.	Cents.	2.802 1.803 4.483 3.927 2.937 2.919	$\frac{1.448}{12.181}$	4.104	. 553 4 . 185 734 . 882 1 . 303 1 . 303 10 . 960 2 . 960 2 . 960 1 . 222 1 . 222	
6		Freight Revenue.	& cts.	244,531 64, 114,720 54, 47,806 07, 10,887 12, 121,792 89, 1,650 07, 3,710 59	41,730 74 246,507 73	27,653 85 6,117,596 94	6,120,631 41 146,631 41 9,956,289 93 337,749 93 64,904,060 20 58,904,060 20 2,271 66 34,961 40 64,161 165 200,761 165	
	Name of Railway.			1 Alberta Railway and Irrigation Co. 2 Algona Central and Hudson Bay. 3 Atlantic and Lake Superior. 4 Atlantic, Quebec and Western. 5 Bay of Uninte. 6 Bedlington and Nelson. 7 Bessemer and Barry's Bay.	8 Brandon, Saskatchewan and Hud- son Bay. 9 British Yukon.	Western	Canadian Government Railways—  Intercolonial Thirecolonial	

Table 7.—Earnings and Income for the Year ending June 30, 1910—Continued.

SESSIONAL PAPER No. 20b										
	17	VENUES.	Total Earn- ings per Train Mile.	œ.	1.35439 1.50515 3.50506 1.24082 1.44082 1.44082 1.44082 1.65204 8.5204 8.5204 1.6526 1.6016 1.6016 1.6016 1.6018 1					
d.	16	SUMMARY OF REVENUES.	Total Operating Revenues. Cols.	\$ cts.	48, 987 08 837,377 08 19,659 42 2,658 889 94 18,658 90 95 18,596 28 17,99 10 17,99 10 17,99 10 17,99 10 17,99 10 18,59 22 18,69 22 18,69 22 19,69 10 19,69 10 19,69 10 19,69 10 19,69 10 19,98 10 197,98					
	15	REVENUE FROM OPERATIONS OTHER THAN TRANSPORTATION.	Telegraph, Rents and other Sources.	& cts.	1,510 25 1,510 25 26,237 43 1,225 44 1,380 55 1,150 93 219 30 672 61 672 61 672 61 673 65 63 55 64 94 09 11,877 01 1,677 14					
)—Continu	14	REVENUE FROM OPERA TIONS OTHER THAN TRANSPORTATION	Station and Train Privileges, Storage and Car Service,	s cts.	1,168 09 131,411 17 16,332 56 1832 56 160 21,160 21,160 21,120 00 12,000 12,285 40 285 40 385 31 1,453 96 358 26 5,766 72 111 44					
7.—Earnings and Income for the Year ending June 30, 1910—Continued	13		Proportion to Total Earnings.	p.c.	4934 E888334989349898988888888888888888888888					
	12		Freight Earn- ings per Train Mile.	8	90584 1.75078 3.52382 3.52382 2.11614 1.89148 1.64277 2.12635 5.5305 4.64277 2.12635 5.5305 1.54721 1.54721 1.54184 3.0185 3.0185 2.01721 1.54184 1.33147 1.87360					
	11	REVENUE FROM TRANSPORTATION.	REVENUE FROM TRANSPORTATION	Total Revenue from Trans- portation.	\$ cts.	48,937 08 834,688 74 19,559 12 19,559 18 19,500 18 19,500 18 17,750 18 18,7111 17				
Income for	<b>a</b>			ENUE FROM TR	SNUE FROM TR	ENUE FROM TE	ENUE FROM TE	Switching Revenue, Special Service Train Revenue and Miscel- laneous.	& cts.	Cr. 3,167 50 1,730 974 275,542 00 102,277 54 1,428 00 216 63 216 63 8,553 22 4,161 60 1,371 64 1,371 64 1,371 64 1,371 64 1,371 64
NGS and	01			Revenue per Ton per Mile.	Cents.	2 + 43 + 672				
7.—EARNIN	6		Freight Revenue.	s cts.	32,729 96 457,021 66 457,021 66 57,021 66 58,830 34 11,965,830 34 11,965,630 34 11,965,630 34 11,964 61 11					
TABLI Operating Revenues.		Name of Railway.			23 Cumberland Railway and Coal Co. 24 Dominion Atlantic 25 Elgin and Havelock. 26 Eastern British Columbia. 27 Grand Trunk (Canada Atlantic). 28 Grand Trunk (Canada Atlantic). 29 Halifax and Southwestern. 30 Hereford. 31 Inverness Railway and Coal Co. 32 Irondale, Bancroft and Ottawa. 33 Kaolo and Slocan. 34 Kent Northern. 35 Katle River Valley. 36 Kinston and Penbroke. 37 Klondike Mines. 38 Liverpool and Milton. 39 Lothmirer Magantic. 40 London and Port Stanley. 41 Manitonlin and North Shore. 42 Marritme Coal, Ry and Power Co. 43 Massawippi Valley. 44 Midland Ry. Co. of Manitoba now Manitoba Great Northern. 45 Montreal and Atlantic 46 Montreal and Atlantic					

Table 7.-Earnings and Income for the Year ending June 30, 1910.-Concluded.

				1 GEORGE V., A. 1911
t-	VENUES.	Total Barn- ings per Train Mile.	G:	11.04955 3.12004 1.01507 1.33672 93199 57865 77865 77865 77865 1.90456 1.90466
16	SUMMARY OF REVENUES.	Total Operating Revenues. Cols. 11 + 14 + 15.	.% cts.	104,276 77 110,522 80 28,381 91 62,381 91 62,381 91 65,543 10 30,883 91 34,685 92 2,457,620 01 1,104,682 82 1,104,682 82 15,446 82 115,446 82 1
15		Telegraph, Rents and other Sources.	& cts.	Cr. 12 82 2699 06 8,643 59 17 00 1,577 0 1,577
#1	REVENUE FROM OPERA- TION OTHER THAN TRANSPORTATION	Station and Train Privileges. Storage and Car Service.	S cts.	25 95 95 97 20 188 55 17 20 188 55 17 20 188 55 17 20
£1		Proportion to Total Earnings. 100xCol.9xB Col. 16.	p.c.	82888787888782788888888888888888888888
12		Freight Earn- ings per Train Mile.	F;	2.81846 2.81846 2.82017 2.82017 3.8616 3.8616 3.8616 3.8616 3.8616 1.7451 1.745
11	REVENUE FROM TRANSPORTATION.	Total Revenue from Trans- portation.	& cts.	104,185 02 110,522 80 22,207 55 62,207 55 71,595 79 80,589 51 80,589 51 80,589 51 80,589 51 80,589 80 80,589 80 80,5
8		Switching Revenue, Special Service Train Revenue and Miscel- laneous.	ets.	85 45 6,096 80 388 35 2 60 2 52 9 2 5 20 2 5 20 1 407 62 2 50 80 2 60 80 3 60 80 3 710 00 2 42 50
10		REV	Revenue per Ton per Mile.	Cents.
6		Freight Revenue.	.s. cts.	39,750 51 93,744 35 17,848 84 41,667 13 41,667 13 41,667 13 20,937 80 20,937 80 20,937 80 20,937 80 15,755 17 15,758 13 15,408 13 43,608 19 15,408 176 43,608 19 15,408 176 43,608 19 15,408 176 15,408 176 18,804 76 18,804
1	Name of Railway.			48 Morrissey, Fernie and Mielel. 49 Morrissey, Fernie and Mielel. 49 Monchon and Butchuche. 51 Nelson and Fort Sheppard. 52 New Brunswick Coal and Ry. Co. 53 New Brunswick Coal and Ry. Co. 54 New Brunswick Southern. 55 New Westminster Southern. 56 North Store Railway Co. 57 Nova Scotal Steel and Coal Co. 58 Orford Mountain. 59 Orford Mountain. 59 Orford Mountain. 59 Ortore Ray, and Quarry Co. 59 Orford Mountain. 50 Ortore Ray, and Quarry Co. 50 Orford Mountain. 51 Phillipsburg Ry. and Quarry Co. 52 Ortore Landeron Ernel of Robinson Co. 53 Outbee Central. 54 Quebec and Lake St. John. 55 Quebec Central. 56 Quebec, Montreal and Southern. 57 Quebec, Montreal and Southern. 58 Rutland and Noyan. 58 Rutland and Noyan. 58 Schomberg and Aubert. 70 Schomberg and Aubert.

CECCI	LONIAL	DADED	No. 20h

SESSIONAL PAPER No. 201	J
1.79405 1.04541 1.04541 1.60182 2.80243 1.43555 2.10572 2.18571 2.8571 2.1553 2.18571 2.0553 1.4792 1.4792 1.4792 1.4792 1.4792 1.4792 1.4792	
886838888688648	22
2,004 2,838 838 838 838 1,625	6,217
287, 5115, 185, 187, 197, 197, 197, 197, 197, 197, 197, 19	73,95
	21 12
35 1,783 1,783 1,783 1,108 1,506 1,506 2,386 1,508 38 213	453 2I
	2,826,
. : 33.33	
345 444 444 445 13,925 23,950 23,950 20 20 20 5,370	061 12
लिहाँ मिला क्ष्री :	679,
662.13 662.13 662.13 663.13 66	:
000 000 000 000 000 000 000 000 000 00	
	:
04793 69196 83185 76005 77575 76005 77575 63473 6326 6326 96764 40558	
3.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	
982225555555555555555555555555555555555	80
,004 1,700 1,608 1,658 1,256 1,974 1,974 1,974 1,974 1,974 1,986 1,985 1	,702
287, 518, 118, 312, 327, 1,660, 1,009, 632, 44, 46, 73, 73,	0,450
50 50 50 50 50 50 50 50 50 50 50 50 50 5	9 170,4
	552,084 59
287,004 11,570 478 478 478 41,517 2,285 2,	552,
ි සිරිල් සිට	<del>-</del>
11.256 11.256 11.256 11.266 11.366	:
	:
8625000000000000000000000000000000000000	9 70
319,908 12,469 280,562 280,562 28,678 23,060 678,332 24,149 25,252 25,252 27,709 70,252 3,448	12.39
	15,942
:	:
skiaia	Final total
ndaso nm Duffe Buffe Fern	
diro urg n Col rthen rthen sand v, & y, &	cotal
nd A nisbrutish rutish rutish rutish rutish ds lton ads ada	nal t
unn, unn, unn, unn, unn, unn, unn, unn,	뎚
wir T wrinn y and ne an souat kanni wnd l o, H uver, ia Te ia an ih in d ston	
72 St. Clair Tunnel 73 St. Lawrence and Adirondack 74 St. Marveins 75 Sydney and Louisburg 76 Shokane and British Columbia. 77 Teniscousta 78 Teniscousta 78 Teniscousta 79 Thousand Islands. 79 Thousand Islands. 80 Toronto, Hamilton and Buffalo. 81 Vancouver, Victoria and Eastern. 82 Victoria and Sydney, B. C. 83 Victoria and Sydney, B. C. 84 Wabash in Canada. 85 Verlington Colliery Co. 86 Vork and Carleton.	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

1 GEORGE V., A. 1911
TABLE 8.—SUMMARY of Operating Expenses

_				•		
1	1	2	3	4	5	6
					Maintena	NCE OF WAY
Number.	Name of Railway.	Superin- tendence.	Ballast.	Ties.	Rails.	Other Track Material.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1 2 3 4 5 6	Alberta Ry. and Irrigation Co Algoma Central and Hudson Bay. Atlantic and Lake Superior. Atlantic, Quebec and Western Bay of Quinte Bedlington and Nelson	3,000 00 4,151 70 480 45 1,871 26 1,349 11	854 71 60 00	25,781 93 24,316 63 3,053 73 11 20 3,607 07 1,222 68	280 24 270 09 2 00 12 95 Cr. 15 55	992 43 412 10 24 19 394 06 Cr. 5 23
$\begin{bmatrix} 7 \\ 8 \\ 9 \\ 10 \end{bmatrix}$	Bessemer and Barry's Bay Brandon. Saskatchewan and Hud- son Bay British Yukon Brockville, Westport and North-	4,564 60 53 41		Cr. 14 82 2,302 34	Cr. 107 56 10 99	1,076 03 1,056 48
11 12 13 14 15 16 17	western. Canada Southern. Canadian Gov. Rys. (Intercolonial) " (P. E. Island) Canadian Northern " " Ontario " " Quebec Canadian Pacific.	475 97 38.873 71 50,697 72 2,806 30 45,571 29 5,606 31 9,469 19 438,159 30	46,597 13 41,154 85 1,600 47 Cr. 22 50 24 00 777 22 190,500 38		144,547 38 259,989 75 10,993 15 12,652 50 632 30 376,628 02	106,198 56 135,030 27 5,714 18 55,856 84 3,363 17 6,132 96 522,547 05
18 19 20 21 22 23 24 25	Cape Breton Caraquet Carillon and Grenville Central Ontario. Crowsnest Southern Cumberland Ry. and Coal Co Dominion Atlantic. Elgin and Havelock	1,435 00 5,433 86 1,200 00 2,232 05	600 00	6,115 49 2,881 25 18,027 49	615 88 157 48	1,445 00 50 00 2,748 04 4,665 18 345 07 2,988 82 104 32
26 27 28 29 30 31 32 33	Eastern British Columbia Grand Trunk Grand Trunk (Canada Atlantic) Halifax and Southwestern Hereford Inverness Rv. and Coal Co. Irondale, Bancroft and Ottawa	107,474 91 12,748 70 4,309 75 1,448 70 1,297 07 360 00	71,602 85 7,777 98 375 55 265 40	11,161 45 4,917 57 4,267 17 3,106 50 2,653 37	Cr. 5 60 778 24 731 22	$ \begin{array}{r} 127 \ 68 \\ 194,357 \ 48 \\ 14,270 \ 35 \\ 906 \ 69 \\ 1,919 \ 45 \\ 1,142 \ 43 \\ 79 \ 56 \\ 64 \ 78 \\ 89 \ 99 \ 99 \\ 1,000 \ 99 \\ 1,$
34 35 36 37	Kent Northern Kettle River Valley Kingston and Pembroke Klondike Mines	97 49 3,030 59		11,430 40	161 00 52 95	500 00 1,415 18
38 39 40 41 42	Lotbinière and Mitton.  Lotbinière and Megantic.  London and Port Stanley.  Manitoulin and North Shre.  Maritime Coal, Ry. and Power Co.	993 70 1,266 50	78 75 212 50	1,164 71 4,088 33 2,802 22 750 00	38 12 102 34 0 93	190 42 1,616 49 231 04
43 44 45 46	Massawippi Valley Midland Ry. Co. of Manitoba, now Manitoba Great Northern Montreal and Atlantic Montreal and Province Line	1,186 97 4,782 56 8,253 13	$\begin{array}{c} 127 \ 48 \\ 2,993 \ 33 \end{array}$	20,618 32	0.53	939 44 497 28 14,111 24 858 45
47 48 49 50	Montreal and Vermont Junction. Morrissey, Fernie and Michel Moncton and Buctouche Napierville Junction. Nelson and Fort Sheppard	854 27 837 92		2,281 89 2,624 69 1,414 56	237 60 2,565 45 19 65	501 79 188 28 36 60

for the Year ending June 30, 1910.

7	8	9	10	11	12	13				
Ani) Structures.										
Roadway and Track.	Removal of Snow, Sand and Ice.	Tunnels.	Bridges, Trestles and Culverts.	Over and under Grade Crossings.	Grade Crossings, Fences, Cattle Guards and Signs.	Snow and Sand Fences, and Snow Sheds.	Number.			
\$ ets.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.				
30,593 31 18,911 45 18,091 28 5,458 21 12,937 30 1,549 49 1,975 55	757 33 3,188 86 58 11 19 55 1,287 55		1,616 65 17,135 64 2,289 38 588 43 83 53	38 97	2,638 39 175 79 686 59					
$\begin{array}{c} 19,827 \ 54 \\ 20,197 \ 20 \end{array}$	3,615 56 10,429 87				121 61 9 01	286 97 317 32	8			
2,936 35 369,185 39 569,733 14 59,125 19 856,717 35 67,192 00 77,513 12 6,744,621 19 3,447 82 9,860 87 3,45 00 22,524 35 55,501 92 8,033 51 46,477 72 2,796 73 7,817 76 1,331,434 43 147,913 00 57,799 99 17,358 32 14,552 84 6,598 72 6,997 42 1,650 00 2,132 98 28,130 17 8,113 39	468 90 13,515 28 89,363 62 11,592 96 78,251 98 7,585 54 21,044 30, 490,984 95 184 45 3,119 31 3,391 36 3,052 39 85 17 1,053 43 109,689 81 17,901 37 807 59 1,779 74 1,539 44 940 95 3,603 41 2,283 95 1,714 14 2,283 95 1,717 05	39 00	1,088 48 82,907 61 62,844 10 1,523 27 163,849 93 5,292 36 59,795 65 1,032,666 27 53 95 1,225 00 150 00 2,713 69 10,161 22 180 00 11,280 76 961 50 507 23 388,729 96 4,017 45 1,623 54 3,485 03 1,272 75 482 76 2,108 56	2,098 11 761 08 55 00 7,510 41 709 83 18,861 21 Cr. 1,472 53	1,709 00 19,158 54 37,491 35 5,568 27 13,804 62 815 29 3,733 63 290,320 27 80 78 950 54 180 00 3,972 64 440 15 8,689 34 94 60 5 78 151,126 29 9,956 69 1,423 72 583 13 1,159 52 6 72 25 00 1,122 84	13 70 9,937 18 410 48 12 63 25 28 1,493 16 55,967 95 175 00 614 69 1 25 7,657 88 1,062 99 261 40 239 28	10 11 12 13 14 15 16 17 18 19 20 21 22 23			
5,445 25 6,598 91 17,875 50	463 03 194 62		33 85 163 11		11 35 676 22		41 42 43			
25,549 93 93,157 65 11,904 09 5,288 51 3,582 47 4,976 96 3,229 88	9,596 63 1,338 18 1,064 02 1,497 10  505 72		1,735 38 45 16	61 72	124 37 22,168 56 1,791 48 788 91 412 85	103 86 121 30 57 37 36 75 	44 45 46 47 48 49 50			
27,804 61	2,092 28		21,150 80		9 38		51			

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

	1	2	3	4	5	6
	•				MAINTEN	ANCE OF WAY
Number.	Name of Railway.	Superintendence.	Ballast,	Ties.	Rails.	Other Track Material.
		\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ ets.
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	New Brunswick Coal and Ry. Co New Brunswick and P. E. Island. New Brunswick Southern. New Westminster Southern. North Shore. Nova Scotia Steel and Coal Co. Orford Mountain Ottawa and New York. Père Marquette Phillipsburg Railwayand Quarry Co. Princetou Br'ch of Washington Co. Quebec Central Quebec and Lake St. John. Quebec Ry., Light and Power Co. Quebec, Montreal and Southern. Red Mountain. Rutland and Noyan.	1,356 19 8,521 68 74 82 4,206 62 4,721 47 241 36 5,058 49 901 90	429 00 163 05 1,517 01 8,016 76 3,905 44 3,500 00	2,362 12 1,140 90 408 98 3,629 11 17,539 61 716 23 16,500 00 16,609 58 442 62 14,208 19 2,61 290	742 00 Cr. 32 31 764 94 176 39 299 88 42,000 00 60 92 21 32 239 22	25 00 116 35 749 07 2,725 82 273 87 4,079 74 4,236 25 59 99 3,300 61 200 72
69 70 71	Rutland and Noyan. Salisbury and Albert Schomberg and Aurora Stanstead, Shefford and Chambly.	752 60 682 75	236 25	2,407 35 6,260 12	822 53 265 59	9 77
72 73 74 75 76 77 78 79 80 81	St. Clair Tunnel St. Lawrence and Adirondack St. Martins Sydney and Louisburg Spokane and British Columbia Temiscouata Temiskaming and Northern Ontario Thousand Islands Toronto, Hamilton and Buffalo Vancouver, Victoria and Eastern.	1,787 85 1,353 00 83 78 1,928 40 7,506 33 46 35 6,192 82	133 55 10,271 36 68 80 17,256 13	8,566 43 1,717 37 11,313 79 237 30 9,588 97 24,014 39 664 58 14,357 57	1,711 58 1,877 22 309 04 13,217 10 6 45 4,552 59	3,430 60 568 42 5,364 34 1,088 75 8,413 68 428 62 7,273 98
82 83 84 85 86	Victoria Terminal Ry, and Ferry Co. Victoria and Sydney, B.C. Wabash in Canada. Wellington Colhery Co. York and Carleton. Final total	718 50		104 35 104 35 1,417 68 687 06 949 13 	655 04	3 70 49 30 201 38

SESSIONAL PAPER No. 20b

for the Year ending June 30, 1910—Continued.

7	8	9	10	11	12	13
ND STRUCTUR	ES—Continued.					
Roadway and Track.	Removal of Snow, Sand and Ice.	Tunnels.	Bridges, Trestles and Culverts.	Over and Under Grade Crossings.	Grade Crossings, Fences, Cattle Guards and Signs.	Snow and Sand Fences and Snow Sheds.
\$ ccs.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
14,042 21 4,615 11 20,188 93 5,026 20 888 80	213 96 759 83 6 34 60 85		783 24 1,271 78 385 56 657 74		799 56 686 34 51 43	37 61
2,163 95 7,510 91 18,131 51 49,262 18	$\begin{array}{c} 1,417 & 72 \\ 1,046 & 75 \\ 6,185 & 02 \end{array}$		606 52 1,024 05 9,303 39	349 50	363 00 497 02 1,246 15 4,679 54	71 35 89 81 10 95
1,377 29 76,292 60 49,508 97 2,455 90 24,852 92	739 75 19,741 10 1,098 55 5,802 47		2,533 50 8,118 03 385 00 8,931 30	281 44 6 14	64 85 809 08 1,590 69 466 50 2,341 53	120 34 28 29
4,921 16 756 48 7,125 85 2,959 66	631 79 105 17		6,444 64 5 00 1,539 43		28 56 40 38 116 62	
7,972 38	1,531 72		1,931 98	2 95	690 52	33 50
16,067 65 30,807 88	1,653 36		$ \begin{array}{r} 3,984 50 \\ 634 75 \\ 1,504 94 \end{array} $	134 86	$\begin{array}{c} 2,365 \ 28 \\ \dots \\ 1,862 \ 09 \end{array}$	21 64
2,018 71 26,646 10	470 44		5,991 91	C. 914 #0	2,254 24	79 89
$\begin{array}{c} 166,417 \ 67 \\ 2,523 \ 11 \\ 49,880 \ 34 \end{array}$	$\begin{array}{r} 15,449 \   40 \\ 11 \   90 \\ 5,538 \   53 \end{array}$	11 75	13,739 09 768 15 6,535 26	Cr. 314 60	$\begin{array}{c} 2,265 \ 47 \\ 46 \ 35 \\ 5,977 \ 07 \end{array}$	38 24
178,779 44 306 05 4,065 97	1,333 64	361 19	18,237 60 5 84 79 00	1,982 99	761 28 52 63 700 20	85 67
640 27 8,943 88 1,435 00			7 38		• • • • • • • • • • • • • • • • • • • •	
1,683,918 50	968,916 50	17,528 99	2,048,471 72	31,097 05	614,400 97	81,225 86

1 GEORGE V., A. 1911
TABLE 8.—SUMMARY of Operating Expenses

	14	15	16	17	18
				MAINTE	NANCE OF WA
Number.	Name of Railway.	Signals and interlocking plants.	Telegraph and telephone lines.	Electric power transmission	Buildings, fixtures and grounds.
		\$ ets.	\$ cts.	\$ cts.	\$ ets.
1 2 3 4 5 6	Alberta Railway & Irrigation Co. Algoma Central & Hudson Bay. Atlantic & Lake Superior. Atlantic, Quebec & Western Bay of Quinte Be-llington and Nelson	808 70 32 61	1,324 14 1,850 10 201 43 43 94 105 08 11 91		7,306 12 2,317 61 1,264 64 36 33 1,327 04 36 79
7 8 9	Bessemer & Barry's Bay. Brandon, Saskatchewan & Hudson Bay. British Yukon	235 57	4 62 183 92 578 35		1,727 27 3,064 32
10 11 12 13	Brockville, Westport & Northwestern. Canada Southern. Canadian Government Rys. (Intercolonial) (P. E. Island)	50,323 10 4,997 94 13 20	3,302 86 1,033 62 7 10 35,761 35	112 170 74	583 97 29,375 91 161,045 11 6,561 23
14 15 16 17 18	Canadian Northern. Canadian Northern, Ontario. Canadian Northern, Quebec. Canadian Pacific. Cape Breton.	355 98 1,643 80 46.214 85	2,743 75 178 30 327,902 77 98 43	115,178 74	$\begin{array}{r} 3,289 & 81 \\ 3,071 & 96 \\ 12,760 & 99 \\ 1,536,208 & 16 \\ 31 & 07 \end{array}$
19 20 21 22	Caraquet. Carillon & Grenville Central Ontario.				40 00 6,279 78 1,693 04
23 24 25	Crowsnest Southern	42 68	328 13		5,378 7: 36 8-
26 27 28	Eastern British Columbia	29,035 94 1,066 19	32 35 26,589 82 6,508 02 792 53	37 56	280 53 494,227 3' 31,951 9 4,654 4'
29 30 31 32	Hereford Inverness Ry. & Coal Co Irondale, Bancroft & Ottawa	42 63	203 02 235 08		954 3 2,740 1 139 2
33 34 35	Kaslo & Slocan. Kent, Northern. Kettle River Valley.				$\begin{array}{c} 214 & 3 \\ 50 & 0 \\ 21 & 3 \\ 1,280 & 2 \end{array}$
36 37 38 39	Kingston & Pembroke, Klondike Mines Liverpool & Milton Lotbinière & Megantic.		39 65		199 8
40 41 42	London & Port Stanley	37 68	15 47 527 24 29 61 3 90		2,458 7 129 4 182 7 2,612 1
3 4 5	Massawippi Valley. Midland Ry. Co. of Manitoba, now Manitoba Great Northern. Montreal and Atlantic	296 80 1,322 01	131 29 2,965 82		643 9 12,882 7
16 17 18	Montreal and Province Liue		87 59 103 52		2,376 2 394 6 507 3 498 3
$\frac{19}{50}$ $\frac{51}{52}$	Napierville Junction	39 62 79 16 32 63	0 60 231 79 561 93		135 7 881 8 459 6
53 54 55	New Brunswick and P. E. Island	32 57	410 65		$\begin{array}{c} 95\ 3 \\ 1,041\ 8 \\ 196\ 2 \end{array}$

for the Year ending June 30, 1910—Continued.

19	20	21	22	23	• 24	25	
						1	

AND STRUCTURES-Continued.

			1	1	(		
Docks and Wharfs.	Roadway, tools and supplies.	Work equipment— repairs.	Work equipment— renewals.	Work equipment— depreciation.	Injuries to persons.	Stationery and printing.	Number
\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	
\$ cts.  1,361 85  34 73  195 21  2,861 69 30,455 53 2,410 09 120 24  110,148 79  183 00  118 73  1,016 81 609 27 29 14  157 31  15 84 20 70  32 68 1,453 48	1,449 78 451 31 28 67 113 06 72 28 388 04 876 15 25,355 61 19,940 33 1,557 42 3 97 225 00 45 00 45 00 442 48 1,014 55 2,500 37 10 11 45 66 22,290 20 5,955 50 988 01 423 47 182 75 44 36 438 33 242 11 629 74 81 58 60 33 87 28 237 02 496 81 447 87 1,994 91 209 31 63 80	Transferred to maintenance of equipment.	Transferred to maintenance of equipment.	Transferred to maintenance of equipment.	\$ cts.  9 73  26 72 1 92  543 76 398 91  3,193 28 5 00 1,953 47 37,847 99  134 13  13,317 97 428 50 25 45 25 00  8 80  33 96 715 90 1,201 01	\$ cts.  121 50 444 94  1 94  48 07  144 14 12 09  2,052 31 3,773 66 263 25 2,181 67 192 79 256 05 28,179 82  90 00  11 47 160 16  8 95  1 42 5,227 26 431 27 62 13 7 27 92 42 5 45  25 62 17 55  20 90 77 60  37 98  178 54 435 14 9 53 26 37	11 11 11 11 11 11 11 11 11 11 11 11 11
144 70 169 44	87 66 52 73 833 69 560 14 143 65 2,777 04 189 03				46 35	13 68 112 11 30 00 44 21 48 07	THE CHEST CHEST CHEST

1 GEORGE V., A. 1911

Table 8.—Summary of Operating Expenses	TABLE	8.—Summary	of Operating	Expenses
--	-------	------------	--------------	----------

	14 .	15	16	17	18
				Mainten	SANCE OF WAY
Number.	Name of Railway.	Signals and interlocking plants.	Telegraph and telephone lines.	Electric power transmission	Buildings, fixtures and grounds.
		\$ ets.	\$ cts.	\$ ets.	\$ cts.
56 57 58 69 60 61 62 63 64 65 66 67 70 71 72 73 74 75 77 77 78 80 81 82 83 84 85 86	North Shore Railway Co. Nova Scotia Steel and Coal Co. Orford Mountain. Ottawa and New York Père Marquette. Phillipsburg Railway and Quarry Co. Princeton Branch of Washington Co. Quebec Central. Quebec Cantal. Quebec Railway Light and Power Co. Quebec, Montreal and Southern. Red Mountain. Rutland and Noyan Salisbury and Albert. Schomberg and Aurora. Stanstead, Shefford and Chambly. St. Clair Tunnel. St. Lawrence and Adirondack. St. Martins Sydney and Louisburg. Spokane and British Columbia. Temiscouata. Teniskaming and Northern Ontario. Thousand Islands. Toronto, Hamilton and Buffalo. Vancouver, Victoria and Eastern. Victoria Terminal Railway and Ferry Co. Victoria and Sydney, B.C. Wabash in Canada. Wellington Colliery Co. York and Carleton.	711 92 705 25 599 36 70 22 1,068 48 18 21 4 86 23 52 192 38 0 84 3,091 77 4,357 54	35 26 28 54 133 30 333 29 66 35 20 22 120 25 67 62 0 69 52 15 23 00 20,786 32 5 30 1,042 96 0 14 1 86	1,109 18	251 34 7,488 55 7,631 06 8,466 03 10,227 91 398 37 5,206 30 542 27 5 70 7 93 1,745 39 4,854 90 2,270 41 94 67 3,220 50 47,279 69 556 17 9,059 45 5,741 25 8 53 139 88 277 32
00	Final total.		438,160 47	116,325 48	2,461,761 72

for the Year ending June 30, 1910-Continued.

						-	
19	20	21	22	23	24	25	
AND STRUCTUR	Es—Continued.						
Docks and wharfs.	Roadway, tools and supplies.	Work equipment— repairs.	Work equipment— renewals.	Work equipment— depreciation.	Injuries to persons.	Stationery, and printing.	Number.
\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	
10 05 549 60 25 70 340 05	233 65 732 52 552 22 2,152 02 2,537 12 82 95 852 73 161 79 36 64 494 11 182 78 288 63 50 80 347 86 5,498 11 90 38 1,014 94 3,091 27 5 75 83 05 21 15	Transferred to maintenance of equipment.	Transferred to maintenance of equipment.	Transferred to maintenance of equipment.	49 25 5 60 4,289 73 4 00 5 63 34 37 132 02 376 40 230 40 1,139 85 2 66	6 88 221 73 1 10 216 54 123 03 17 12 185 42 26 92 3 38 10 54 7 68 10 31 798 30 127 88 382 24	56 57 58 60 61 62 66 66 67 68 69 70 71 72 73 74 75 76 77 80 81 82 83 84 85 86
167,519 61	267,462 06				66,233 81	47,017 92	

1 GEORGE V., A. 1911

Table 8.—Summary of Operating Expenses for the Year ending June 30, 1910—Continued.

SESSIONAL PAPER No. 20b
5 90 145 45 7 80 31,000 00 15,000 00
25,661 25,752 25
2,467,69 1,702,11 1,406,98 1,406,98 2,275,603 3,318,93 6,91,57
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
15 94 4,379 19 360 00 377 96 377 96 7,193 81
2,255 04 19 30 634 20 77 55 77 53 48 45 48 45 1,022 15 1,022 15 1,034 25 1,034 25 1,034 25 1,034 25 1,034 25 1,034 25 1,038 28 1,038 28 23,182 88
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
833 73 833 73 833 73 11 50 11 50 11 50 12 29 8 62 8 62 13 62 08 14 62 08 16 70 30 17 723 97 17 82 08 18 42 05 19 40 29 19 54 00 19 68 19 68 19 68 19 70 08 19 88 19 88 10 88 1
29 Halifax & Southwestern 30 Hereford. 31 Inverness Ry. & Coal Co. 32 Irondale, Bancroft & Ottawa 43 Kent Northern 43 Kent Northern 53 Kingston & Penniroke 53 Klondike Mines. 53 Liveptool & Milton 64 Manitonin & North Shore. 65 London & Port Stanley 65 Massawippi Valley. 66 Manitonin & North Shore. 67 Manitonin & North Shore. 68 Massawippi Valley. 68 Massawippi Valley. 69 Manitonin & Northerland 60 Manitonin & Port Stanley 61 Montreal & Province Line. 62 Montreal & Province Line. 63 Montreal & Province Line. 64 Montreal & Province Line. 65 Montreal & Province Line. 66 Montreal & Province Line. 67 North Shore Bandsion 68 North Shore Railway Co. 69 Napierville Junction 69 Napierville Junction 60 Napierville Junction 61 New Brunswick Southern 66 North Shore Railway Co. 67 Nova Scotia Steel & Coal Co. 68 Opter Maquette. 69 Pere Maquette. 60 Pere Maquette. 60 Pere Maquette. 60 Pere Maquette. 61 Phillipsburg Railway & Quarry Co. 63 Quebec Central. 64 Quebec & Lake St. John 65 Quebec Railway, Light & Power Co. 65 Quebec Central. 66 Quebec, Montreal & Southern 67 Red Mountain 68 Rutland and Noyau 69 Salishury & Albert 77 Secure & Lawrence & Adirondack. 77 Secure & Lawrence & Adirondack. 77 Sydney & Lonisburg 77 Pemisconata.

Table 8.—Summary of Operating Expenses for the year ending June 30, 1910—Continued.

23	28	29	30	31	33	34	35	36	3,
	Ma	INTENANCE OF	MAINTENANCE OF WAY AND STRUCTURES.—Continued	UCTURES.—Cont	inued.	MA	MAINTENANCE OF EQUIPMENT.	· Equipment.	
Name of Railway.	Other Expenses.	Total of Foregoing Accounts.	Maintaining Joint Tracks, Yards and other Facilities.	Maintaining Joint Tracks, Yards and other Facilities.	Total Maintenance of Way and Structures.	Super- intendence.	Steam Locomo- tives— Repairs.	Steam Locomo- tives— Renewals.	Electric Loco- motives— Repairs.
	se cts.	æ cts.	es cts.	& cts.	.s. cts.	& cts.	& cts.	ets.	.ee c5s.
78 Temiskaming & Northern Ontario. 79 Thousand Islands. 80 Torouto, Hamilton & Buffalo. 81 Vancouver, Victoria & Eastern. 82 Victoria Terminal Rly. & Ferry Co. 83 Victoria & Sydney B. C. 83 Wabash in Canada. 85 Wellington Collery Co. 86 York & Carleton.	134 77 50 00 16 57	337,001 74 5,270 91 131,447 03 265,739 38 539 53 7,286 50 3,254 50 9,893 01 1,455 00	2,320 00	10,773 99	337,901 74 5,270 91 122,993 04 265,739 38 7,285 53 7,286 10 9,893 01 1,455 00	16,608 04 14 45 14 45 4,748 41 2,937 17 12 85 170 60 8,844 33	59,749 11 2,261 11 46,052 35 37,515 86 8,289 92 1,220 92 180,702 91 8,263 34		
Final total	19,439 05	26,815,261 91	713,520 37		493,179 42 27,035,603 46	565,442 79	565,442 79 10,876,301 12	585,978 33	

SESSIONAL PAPER No. 20b

Table 8.—Summary of Operating Expenses for the Year ending June 30, 1910—Continued.

51		floating Equipment— Repairs.	\$ cts. 12,380 12 11,172 97 7,011 64 7,011 64
6#		Work Equipment— Renewals,	\$ cts.
87	-Continued.	Work Equipment— Repairs.	8 cts. 150 23 3,754 22 3322 95 3322 95 1,948 03 22,869 46 22,869 46 23,869 46 24,791 33 1,559 59 64 67 74 1,559 59 65 67 67 67 74
9+	MAINTENANCE OF EQUIPMENT—Continued	Freight Train Cars— Renewals.	8 cts. 18,795 69 100,000 08 3,737 26 848,140 43
± <u>G</u>	MAINTENANCE	Freight Train Cars— Repairs,	\$ cts.  \$,301.25 17,680.76 328.07 5,121.81 1,917.63 2,06.40 3,74,729 18,672.19 18,672.
<del>4</del>		Passenger Train Cars— Renewals.	66,666 60 5,423 21 100 20 138,633 63
<u>Q</u>		Passenger frain Cars— Repairs.	\$ cts. 5,829.79 1,613.74 4,1538.96 1,558.95 1,558.96 1,558.96 1,568.96 1,568.96 1,568.96 1,966,714 1,966,714 1,966,714 1,966,714 1,388.77 1,388.77 1,388.77 1,388.77 1,388.77 1,496,714 1,966,714 1,
7		Name of Railway.	Alberta Railway and Irrigation Co. Algona Central and Hudson Bay. Atlantic and Lake Superior Ottawa, Quebec and Western Bay of Quinte Bedlington and Nelson. Besciner and Barry's Bay. Braidon, Saskatchewan and Hudson Bay. Britash Yukon. Ganadia Government Railways (Intercolonial) Canadian Government Railways (Intercolonial) Canadian Rovernment Railways (Intercolonial) Canadian Northern. Canadian Northern. Canadian Northern, Quebec Canadian Southern. Carillon and Greiville Central Ontario. Carillon and Greiville Central Ontario. Garillon and Havelock. Bigin and Havelock. Bigin and Havelock. Bastern British Columbia. Grand Trunk.
20в	$-5\frac{1}{2}$	No.	1984 4 6 5 6 7 x 2 2 1 2 5 5 1 5 5 7 5 2 9 1 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

1 GEORGE V., A. 1911

Table 8.—Summary of Operating Expenses for the Year ending June 30, 1910—Continued.

49		Floating Equipment— Repairs.	## ## ## ## ## ## ## ## ## ## ## ## ##	
48		Work Equipment— Renewals.	\$ cts. 9 0 00 2,441 67	
25	-Continued.	Work Equipment— Repairs.	\$ cts. 276 37 126 37 115 80 546 96 546 96 547 84 164 52 179 53 656 63 22 34	143 26 153 85
46	MAINTENANCE OF EQUIPMENT—Continued	Freight Train Cars— Renewals.	\$ cts. 35 64 23,901 34 23,901 34	
45	MAINTENANCE	Freight Train Cars— Repairs.		475 83 0 92
43		Passenger Train Cars— Renewals.	\$ cts. 15 23 9,613 89	
75		Passenger Train Cars Repairs.	8 cbs. 12,811 51 19,81 51 19,81 61 19,8	1,851 85 226 35
41		Name of Railway.	Halifax and Southwestern  Hereford  Hereford  Hereford  Inverness Railway and Coal Company.  Kent Salvay and Coal Company.  Kent Socan  Kettle River Valley.  Kindide Mines  Liverpool and Mitton.  Lotbiniere and Megantic.  Lotbiniere and Megantic.  Manitonin and North Shore.  Maritime Coal, Railway and Power Co.  Maritime Coal, Railway and Power Co.  Montreal and Province Line.  Montreal and Province Line.  Montreal and Atlantic.  Montreal and Periorice Line.	
		Number.	8888888888888444444486688	25.25

SESSIONAL PAPER No. 20b

SESSIONAL PAPER No. 20b	
2,403 31	137,694 15
98 de 9	141,530 79
Cr. 52 53 687 63 123 60 859 39 16 72 1,918 40 102 35 27 52 27 52 11,570 21 11,570 21 4,591 45	698,592 58
311 94 5,335 38 5 10 1,086 39 1,22 31	1,001,559 92
39 08 38 39 31 106 72 106 72 106 72 24.38 47 24.38 49 1, 400 98 1, 140 98 1, 154 88 1,	7,243,600 61
9,000 00	229,517 21
1,730 17 2,469 20 10,419 06 2,70 54 2,62 56 3,35 61 3,49 70 3,49 80 3,79 56 3,79 56 3,70 56 3,	3,486,546 88
North Shore Railway Co.  Nora Scotia Steel and Coal Co.  Nora Scotia Steel and Coal Co.  Orford Mountain.  Ottawa and New York  Pere Marquetta  Ouebec Central.  Quebec Central.  Quebec Cantral.  Quebec Montral and Southern  Red Mountain.  Salisbury and Alwora  Salisbury and Alwora  Schomber and Alwora  Schowber Co.  Stranstead, Shefford and Chambly  St. Clair Tunnel  St. Martins.  St. Martins.  St. Martins.  Sydrey and Louisburg  Spokane and British Columbia.  Temiscaning and Northern Ontario  Thousand Islands.  Temiscanta.  Temiscanta.  Victoria Terminal Railway and Ferry Co.  Victoria Terminal Railway and Ferry Co.  Victoria Terminal Railway and Ferry Co.  Victoria and Sidney, B. C.  Victoria Lonada.  Wellington Colliery Co.  York and Carleton.	Total

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

			<del> </del>		
	51	55	56	57	58
				Man	TENANCE OF
Number.	Name of Railway.	Shop Machinery and Tools.	Power Plant Equipment.	Injuries to Persons.	Stationery and Printing.
		\$ cts.	\$ ets.	\$ cts.	\$ cts
1 2 3 4	Alberta Railway and Irrigation Co. Algoma Central and Hudson Bay Atlantic and Lake Superior. Atlantic, Quebec and Western.	225 02 598 40			35 08 98 31
5 6	Bay of Quinté			0 83	
9	Bessemer and Barry's Bay Brandon, Saskatchewan and Hudson Bay British Yukon	309 31 838 45			29 4 50 4
10 11 12 13	Brockville, Westport and Northwestern	12,620 31		452 56	2,224 2 11,162 8 294 1
14 15 16 17	Canadian Northern. (P. E. Island) Canadian Northeen, Ontario. Canadian Northern, Quebec. Canadian Pacific.	75,598 79 2,467 45 1,960 33		5,401 81 35 00 0 90	3,285 7 151 7 241 6 35,742 6
18 19 20	Cape Breton Caraquet.	250 50			47 5
$\begin{array}{c} 21 \\ 22 \end{array}$	Carillon and Grenville Central Ontario. Crowsnest Southern	40 14 475 08		151 93	23 7 46 8
23 24 25	Cumberland Railway and Coal Co  Dominion Atlantic  Elgin and Havelock.	880 26			23 3
26 27 28 29	Eastern British Columbia   Grand Trunk   Grand Trunk (Canada Atlantic)   Halifax and Southwestern	206,132 49 10,026 26	,	10,427 27 412 6I	9 2 11,328 8 821 9 58 5
30 31 32	Hereford Inverness Railway and Coal Co Iroudale, Bancroft and Ottawa	444 00 605 37 18 23			66 8 72 2
33 34 35	Kaslo and Slocan. Kent Northern. Kettle River Valley.				19.0
36 37 38	Kingston and Pembroke. Klondike Mines. Liverpool and Milton.	1 50			12 9
39 40 41	Lotbinière and Megantic London and Port Stanley Manitoulin and North Shore.	419 59		62 20	35 6 81 5
42 43 44	Maritime Coal Railway and Power Co			12 00	
45 46 47	itola Great Northern'. Montreal & Atlantic. Montreal & Province Line. Montreal & Vermont Junction.	$\begin{bmatrix} 3,666 & 75 \\ 43 & 52 \end{bmatrix}$		3 00 7 44	18 3 354 9 30 1 75 3
48 49 50	Morrissey, Fernie & Michel Moncton & Buctouche. Napierville Junction.			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 3
51 52 53	Nelson & Fort Sheppard.  New Brunswick Coal & Railway Co.  New Brunswick & P. E. Island.	249 50 1,570 00	)	59 79	23 4

60	61	62	63	64	65	67
Equipment—	Continued.					
Other Expenses.	Total of Foregoing Accounts.	Maintaining Joint Equipment at Terminals— Dr.	Equipment Borrowed— Dr.	Maintaining Joint Equipment at Terminals— Cr.	Equipment Loaned Cr.	Total Maintenance of Equipment.
\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.
2,417 44 27 67 640 14 3 00 28 19 	23,665 57 41,712 18 12,479 35 2,634 84 20,293 17 316 40 432 07 8,614 60		4,173 75			37,508 65 41,712 18 16,653 10 2,634 84 20,293 17 316 40 432 07 8,614 60
3 00 30,185 35 7,133 56 Cr. 30 70 3,569 98 1,440 61	14,048 80 2,855 47 1,002,261 41 1,864,066 66 79,120 03 1,761,619 43 73,568 20 110,697 11	5,031 21 3,645 24 1,778 65		1,756 39		14,048 80 2,855 47 1,007,292 62 1,867,711 90 79,120 03 1,761,641 69 73,568 20 110,697 11
81 69 3 84  253 00 30 00 25 79	12,563,155 35 1,068 09 7,422 78 1,033 00 16,610 27 23,276 95 3,355 30	4,832 79	28 45 244 30	494 28		12,567,493 86 1,096 54 7,422 78 1,033 00 16,854 57 23,276 95 3,365 30
662 63 3 62 Cr. 394 38 Cr. 6 43 39 66	61,529 12 371 96 5,407 00 6,095,589 S3 253,437 19 47,613 66 16,166 70	300 00		111,141 85 147 39 39 43		61,529 12 371 96 5,407 00 5,985,397 13 253,289 80 47,913 66 16,127 77
$\begin{array}{c} 12 \ 90 \\ \hline & 2 \ 00 \\ 4,695 \ 42 \\ 30 \ 19 \end{array}$	21,587 84 3,255 11 5,072 33 250 00 901 56 24,084 55 4,564 74				428 04	22,845 04 3,255 11 5,072 33 250 00 901 56 24,084 55 4,564 74 875 75
120 16 8 12 1 81 7 75	875 75 4,540 64 17,139 32 8,564 59 6,131 46 20,468 20					4,540 64 17,139 32 8,564 59 6,131 46 20,468 20
38 98	14,381 98 1,813 52 6,697 91					8,612 36 132,954 90 1,002 41 889 54 14,381 98 1,813 52 6,697 91 7,698 03
13 11	15.919.75					15,919 75 4,890 33

1 GEORGE V., A. 1911
TABLE No. 8.—Summary of Operating Expenses

=	54	55	56	57	58
				Mai	NTENANCE OF
No.	Name of Railway.	Shop machinery and tools.	Power plant equipment.	Injuries to persons.	Stationery and printing.
_		\$ cts.	\$ ets.	\$ cts.	\$ ets.
54 55 56 57	New Brunswick Southern. New Westminster Southern. North Shore Railway Co. Nova Scotia Steel & Coal Co.	63 89		19 23	
58 59 60 61	Orford Mountaiu. Ottawa & New York. Père Marquette.	1,052 38 4,443 26		38 15 652 08	35 17 378 97
62 63 64 65	Phillipsburg Ry. aud Quarry Co Princeton Branch of Washington Co. Quebec Central Quebec & Lake St. John Quebec Railway, Light & Power Co	18 47 4,383 17 3,449 31 138 47	1,133 18	1,155 00 88 05	1 99 162 33 111 44 18 86
66 67 68 69 70	Quebec, Montreal & Southern. Red Mountain. Rutland & Noyan. Salisbury & Albert	94 65 70 67 233 94		27 73	9 11
$\frac{71}{72}$	Schomberg & Aurora. Stanstead, Shefford & Chambly. St. Clair Tunnel.	310 21		3 00	30 14
73 74 75	St. Lawrence & Adirondack. St. Martins Sydney & Louisburg.				
76 77 78	Spokane & British Columbia. Temiscouata Temiskaming & Northern Outario	4,655 12	1,064 64	87 50	48 37
79 80 81	Thousand Islands Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern.	4,057 02 1,278 78	20 70	384 60 558 73	
82 83 84 85 86	Victoria Terminal Railway & Ferry Co	8,474 99		1 77	872 36
00	Final total	777,666 28			71,196 77

60	61	62	63	64	65	67
Equipment-	-Continued.					
Other Expenses.	Total of Foregoing Accounts.	Maintaining Joint Equipment at Terminals – Dr.	Equipment Borrowed— Dr.	Maintaining Joint Equipment at Terminals— Cr.	Equipment Loaned— Cr.	Total Maintenance of Equipment.
\$ ets.	\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.
101 41 3 33 12 19 85 83	$\begin{array}{c} 4,213\ 46\\ 2,925\ 46\\ 120\ 60\\ 1,037\ 86\\ 3,068\ 29\\ 17,051\ 73\\ 322,385\ 89\\ \end{array}$					$\begin{array}{c} 10,278 \ 41 \\ 2,925 \ 46 \\ 120 \ 60 \\ 1,037 \ 86 \\ 3,068 \ 29 \\ 17,151 \ 45 \\ 322,842 \ 63 \end{array}$
7,230 83 2,936 97 91 04 35 80	1,659 87 122,450 13 118,536 35 4,718 84 52,138 12		38,266 78 612 47		183 70	1,659 87 133,524 62 118,536 35 5,147 61 52,138 12
5 15 65 96	1,747 95 1,652 76 4,133 46 753 95 2,575 18 13,386 34		1,039 54			1,747 95 1,652 76 5,173 00 753 95 2,575 18 13,386 34
1,006 60 6,766 87	34,051 94 1,025 07 84,173 59 776 09 26,994 76		3,264 25			34,051 94 1,025 07 87,437 84 776 09 26,994 76
2,780 56 25 05 9,617 36 68 88	$\begin{array}{r} 149,746 \ 23 \\ 2,904 \ 09 \\ 92,553 \ 53 \\ 66,276 \ 93 \\ 135 \ 45 \end{array}$			6,068 06		140,746 23 2,904 09 86,485 47 66,276 93 135 45
11,355 63	1,840 68 378,014 49 36,257 54 16 00	96,274 72	149 00	39 24		1,840 68 474,249 97 36,257 54 165 00
93, 254 29	25,965,609 16	115,261 29	68,921 52	119,686 64	27,804 03	26,002,301 30

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

	68	69	70	71
				TRAFFIC
Number.	Name of Railway.	Superin- tendence.	Outside Agencies.	Advertising.
		\$ ets.	\$ cts.	8 ets.
1	Alberta Railway and Irrigation Co			
2 3	Algoma Central and Hudson Bay Atlantic and Lake Superior			86 20
4	Atlantic, Quebec and Western			
5	Bay of Quinté	2,671 24		274 34
6 7	Bedlington and Nelson. Bessemer and Barry's Bay		*	
8	Brandon, Saskatchewan and Hudson Bay	485 07	1,226 58	686-88
9 10	British Yukon Brockville, Westport and Northwestern	2,028 05	2,814 48	1,542 84 92 01
11	Canada Southern	50,781 49	43,366 90	22,107 59
12 13	Canadian Government Railways—Intercolonial	55,381 49	63,635 04	34,358 67
14	Canadian Northern P.E. Island	$\begin{array}{c c} 32 & 50 \\ 49,223 & 89 \end{array}$	75 00 57,158 77	1,028 55 30,265 35
15	Canadian Northern, Ontario	6,414 87	836 03	4,213 69
16	Canadian Northern, Quebec	6,091 14	2,328 86	4,220 95
17 18	Canadian Pacific Cape Breton	$\begin{array}{r} 407,841 \ 51 \\ 370 \ 00 \end{array}$	1,230,377 73	500,683 54 55 00
19	Caraquet	720 00		
$\frac{20}{21}$	Carillon and Grenville Central Ontario.	1,500 00	100 20	159 60
22	Crowsnest Southern	874 33	$\begin{array}{c} 186 & 30 \\ 2,254 & 02 \end{array}$	153 69 724 61
23	Cumberland Railway and Coal Co			
24 25	Dominion Atlantic Elgin and Havelock		9,224 12	14,300 00
26	Eastern British Columbia			
27 28	Grand Trunk (Comple Added)		447,853 08	138,924 19
29	Grand Trunk (Canada Atlantic). Halifax and Southwestern	15,036 01 3,803 63	29,388 29 $1,319 44$	11,355 24 3,909 59
30	Hereford	583 83	193 82	259 38
31 32	Inverness Railway and Coal Co			186 92
33	Kaslo and Slocan			
34	Kent Northern			50 00
35 36	Kettle River Valley	53 51 1 110 65		222 59
37	Klondike Mines			415 00
38 39	Liverpool and Milton			
40	Lordon and Port Stanley	1.731 10	1.750 06	849 28
41	London and Port Stanley .  Manitoulin and North Shore .  Manitoulin Coal Registers and Payers Coal .	239 28		
42 43	Mairtime Coal, Railway and Cower Co	862 17	284 90	
44	Midland Railway Co. of Manitoba (now Manitoba and	002 17	201 00	
45	Great Northern).	376 67	. 980 11	251 83
46	Montreal & Atlantic.  Montreal & Province Line.	4 55 406 18	616 59	218 98
47	Montreal & Vermont Junction	986 24	2,375 62	384 76
48 49	Morrissey, Fernie & Michel			
50	Napierville Junction	310 68	25 16	11 30
51	Nelson & Fort Sheppard	387 29	985 16	575 33
52 53	New Brunswick Coal & Railway Co New Brunswick & Prince Edward Island.			

72	73	74	75	77	79
EXPENSES.					
Traffic Associa- tions.	Fast Freight Lines.	Industrial and Immigration Bureaus.	Stationery and Printing	Other Expenses.	Total Traffic Expenses
\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts.
70 05			361 62		2,143 45
			296 67	137 67	3,379 92
21 70		214 21	245 70 106 49	5 64	2,885 78 6,491 86
2,791 12 2,331 33	92,289 27	1,626 96	189 91 25,691 41 27,085 96	10 00 0 71 15 37	$\begin{array}{c} 291 \ 92 \\ 238,655 \ 45 \\ 182,807 \ 86 \end{array}$
1,122 13 261 66		1,564 03	32 00 14,058 13 829 65 2,434 49	119 72	1,168 05 153,512 02 12,555 90 15,253 28
174 01 35,293 83	48,919 76	31,798 03	176,879 34	4,857 52	2,436,651 26 425 00 839 36
84 05 57 35		312 07	161 44 490 39	9 53	2,085 48 4,722 30
			2,271 23	72 97	32,629 08
32,016 62 2,570 78 198 65 24 99	49,926 70 1,858 58 32 30	18 25	69,282 05 5,878 64 597 55 182 15	148 22 10 54 0 28	908,717 26 66,098 08 9,828 86 1,295 00
70 49			36 14 28 00		268 06 101 67
73 80			57 35 148 42 55 00	50 00	$\begin{array}{c} 100\ 00 \\ 110\ 86 \\ 1,555\ 46 \\ 470\ 00 \end{array}$
145 56	392 44		664 26 26 38	0 99 2 50	5,533 69 268 16
• • • • • • • • • • • • • • • • • • • •			306 22		1,453 29
24 00 12 36 16 00 42 29	9,304 63 1,740 15	124 11	208 50 234 34 586 35	3 93	1,969 15 9,321 54 1,492 09 6,115 41
7 87	1,740 15		63 68		418 69
16 84		171 44	200 65	5 41	2,342 12

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

	68	69	70	71
				Traffic
No.	Name of Railway.	Superin- tendence.	Outside Agencies.	Advertising.
		\$ cts.	\$ ets.	\$ cts.
54 55 56 57	New Brunswick Southern. New Westminster Southern. North Shore Railway Co. Nova Scotia Steel & Coal Co.	109 95	280 02	212 96 7 93
58 59 60 61	Orford Mountain Ottawa & New York Père Marquette. Phillipsburg Railway & Quarry Co	3,981 20 19,987 43	395 42 19,416 13	449 13 3,488 21
62 63 64 65 66 67 68 69	Princeton Branch of Washington Co. Quebec Central Quebec & Lake St. John Quebec Railway, Light & Power Co. Quebec, Montreal & Southern Red Mountain. Rutland & Noyan. Salisbury & Albert	5,393 41 317 15 2,855 61 113 42 127 78	9,066 70 1,334 64 196 28 434 05 266 99 94 45	47 36 4,479 43 4,455 71 531 99 116 55 17 43 71 55 99
70 71	Schomberg & Aurora Stanstead, Shefford & Chambly St. Clair Tunnel.		692 84	225 42
72 73 74 75 76	St. Clair Tunnel. St. Lawrence & Adirondack. St. Martins. Sydney & Louisburg. Spokane & British Columbia.	1,177 84	2,563 85	838 33 213 30 181 90
77 78 79	Temiscouata. Temiskaming & Northern Ontario. Thousand Islands.	1,989 71 9,246 63 249 26	54 56	903 58 3,765 59 69 35
80 81 82 83	Toronto, Hamilton & Buffalo. Vancouver, Victoria & Eastern. Victoria Terminal Railway & Ferry Co. Victoria & Sidney, B. C.	9,000 73 2,237 34 65 76 875 99	1,363 43 5,762 18	1,586 22 2,508 56 3 86 54 39 7,744 87
84 85 86	Wabash in Canada. Wellington Colliery Co. York & Carleton.	18,231 06	39,522 20	1,141 01
	Final totals	873,134 66	1,980,700 23	804,392 81

						_
72	73	74	75	77	79	
Expenses.						
Traffic Associa- tions,	Fast Freight Lines.	Industrial and Immigration Bureaus.	Stationery and Printing.	Other Expenses.	Total Traffic Expenses.	No.
\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	
8 88		31 66	63 63	1 76	212 96 503 83	54 55 56
70 51 71 69 1,696 18	23 63 7,527 88	1 36	157 95 1,534 11 7,093 79	10 21	228 46 6,456 54 59,219 83	57 58 59 60
1,525 04 102 20 24 99 70 92 8 91 5 47	68 75	3 34 24 00 20 00 44 56 67	28 51 1,623 91 1,202 57 23 11 986 41 62 36 36 85	307 86 6 43 1 87 3 44	172 84 24,154 62 12,512 53 1,401 38 4,489 97 498 28 381 12 55 99	61 62 63 64 65 66 67 68 69
16 82	536 92		235 34		2,101 95	70 71
105 34	51 51	123 73	148 94 41 48 360 10	45 77 181 76	4,949 97 395 06 181 90 66 67 3,358 73	72 73 74 75 76 77
41 00 444 22 125 72	965-80	876 54	1,098 95 33 83 1,130 04 1,209 68	24 72 2 00 24 52	14,231 45 354 44 14,490 44 12,744 54	78 79 80 81
1,928 62	11,017 37		9,611 94		69 62 930 38 88,056 06	82 83 84 85 86
83,673 99	224,655 69	36,954 96	356,373 61	6,290 97	4,366,176 92	

1 GEORGE V., A. 1911 TABLE 8.—SUMMARY of Operating Expenses for the

	81	82	83	84	85
				TRA	NSPORTATIO:
No.	Name of Railway.	Superintendence.	Despatching Trains.	Station Employees.	Weighing and Car- Service Associa- tions.
		\$ ets.	\$ cts.	\$ ets.	\$ cts
$\frac{1}{2}$	Alberta Railway and Irrigation Co. Algoma Central and Hudson Bay.	2,105 66 5,827 56 477 35	697 50	13,503 80 5,210 78	253 7
4 5 6	Atlantic and Lake Superior. Atlantic, Quebec and Western. Bay of Quinté Bedlington and Nelson	1,731 74 22 17	649 05 17 79	2,084 26	
7 8 9	Bessemer and Barry's Bay	1,272 78 2,324 77	559 20 1,807 19	7,727 13 13,688 15	570 68 45 00
10 11 12	Brockville, Westport and Northwestern	53,718 17 80,813 08	14,165 61 139,077 76	$\begin{array}{c} 2,587 & 79 \\ 191,079 & 93 \\ 623,923 & 64 \end{array}$	666 50 1,601 99
13 14 15	Canadian Government Railways (P.E. Island). Canadian Northern Canadian Northern, Ontario.	6,351 32 114,029 51 9,524 34	2,575 87 50,870 47 2,417 49	45,165 18 648,963 87 22,420 98	5,888 135 7 234 9
16 17 18 19	Canadian Northern, Quebec. Canadian Pacific. Cape Breton. Caraquet	11,148 01 702,420 22 390 00	3,718 29 423,245 89	$61,042 78 \ 3,933,486 03 \ 930 00 \ 2,618 00$	12,918 7
$\frac{20}{21}$ $\frac{21}{22}$	Carillon and Grenville Central Ontario Crowsnest Southern	560 00 1,200 00 2,335 84	870 95 868 <b>33</b>	$\begin{array}{c} 200 \ 00 \\ 11,532 \ 76 \\ 5,818 \ 38 \end{array}$	114 0 499 1
23 24 25	Cumberland Railway and Coal Co.  Dominion Atlantic.  Elgin and Havelock.	1,200 00 4,073 03	1,024 60 2,101 84	43,443 41 408 00	
26 27 28 29	Eastern British Columbia. Grand Trunk Grand Trunk (Canada Atlantic) Halıfax and Southwestern	$\begin{array}{r} 3,318 & 56 \\ 178,603 & 55 \\ 24,834 & 40 \\ 7,589 & 97 \end{array}$	82,640 64 9,965 86 1,315 56	165,497 29	54 7 8,823 6 747 4
30 31 32	Hereford. Inverness Railway and Coal Co. Irondale, Bancroft and Ottawa	724 04 180 00	325 32 420 00	5,402 78 5,128 05	
33 34 35	Kalso and Slocan. Kent Northern. Kettle River Valley.	1,720 64 70 50		3,468 03 1,020 00 92 37	• • • • • • • • • • • •
36 37 38	Kingston and Pembroke. Klondike Mines Liverpool and Milton				76 78
39 40 41	Lotbinière and Megantic  London aud Port Stanley  Manitoulin and North Shore.	2,228 79	851 09	11,970 58 55	111 5
42 43 44	Maritime Coal, Railway and Power Co	225 00 781 30	245 51		54 4
45 46 47	Montreal and Atlantic Montreal and Province Line Montreal and Vermont Junction.	$\begin{array}{c} 6,926 & 73 \\ 561 & 08 \\ 1,087 & 12 \end{array}$	5,686 45 244 61	43,838 53 4,803 64 3,289 00	0 10 0 2
48 49 50	Morrissey, Fernie and Michel  Moncton and Buctouche.  Napierville Junction.	1,920 00	198 40	$\begin{array}{c} 2,087 & 70 \\ 1,203 & 51 \\ 2,326 & 25 \end{array}$	
51 52 53	Nelson and Fort Sheppard	1,458 39 100 00	660 06	4,875 66 2,454 49 1,083 00	51 1 6,141 0
54 55	New Brunswick Southern New Westminster Southern	$\begin{array}{c} 33 \ 68 \\ 250 \ 28 \end{array}$	$\frac{17}{118} \frac{20}{05}$	$\begin{array}{c c} 1,252&70 \\ 4&60 \end{array}$	17 6

87	88	89	90	91	92	93	
Expenses—	Continued.						
			_		1		**
Coal and Ore Docks,	Station Supplies and Expenses.	Yardmasters and their Clerks.	Yard Conductors and Brakemen.	Yard Switch and Signal Tenders,	Yard Supplies and Expenses.	Yard Enginemen.	No
							_
\$ cts.	\$ cts.	\$ cts.	. \$ cts.	\$ cts.	\$ ets.	\$ cts.	
	871 78		4,215 30	000.00		3,826 19	1
44,934 55	252 91 450 93	• 443 11	21,608 26	322 29	77 48		3
	543 99						4
	1,864 88	164 50		151 15	15 57		5
	13 33						6
	1,594 43						7
	963 82		596.27			523 31	8 9
	294 50					020 01	10
	15,919 22	50,104 80	121,311 92	14,774 45	2,440 04	73,662 27	11
• • • • • • • • • • • • • • • • • • • •	85,444 89	33,123 08	121,697 51	13,480 13		115,591 23	12
	5,592 47 46,998 74	$\begin{array}{r} 1,968 \ 02 \\ 34,216 \ 26 \end{array}$	1,935 91 135,636 30	2,545 44	27 39 1,586 86	4,348 12	13 14
4,006 61	2,866 27	01,210 20	5,869 49	20 00	22 10	90,729 80 4,489 65	15
2,003 26		450 00.	11,377 07	1,082 45	509 35	10,374 85	16
	348,611 00	157,839 65	866,655 02	66,946 42	19,008 30	620,301 88	17
			1,457 45				18
	645 45				• • • • • • • • • • • •		$\frac{19}{20}$
	1,197 79		1,767 19				21
	473 19		2,101 10			782 15	22
							23
	5,183 80	1,827 97			2 20	6,696 01	24
	59 99						25 26
Cr. 767 34	227,399 82	93,908 00	437,715 94	73,862 89	7,525 04	276,681 73	27
	16,091 43	8,505 57	25,426 04	73,862 89 5,965 35	597 61	21,707 57	28
	2,758 05		1,334 45		36 11	1,117 12	29
	534 20		327 79	5 44	2 00]	1,423 76	30
	513 78 50 31					1,491 69	$\frac{31}{32}$
	387 51						33
	25 00						34
	30 30		1.000.60				35
	1,100 98 341 06	• • • • • • • • • • • • • • • • • • • •				1,316 96	36
	941 00						37 38
	74 20						39
	794 94	1,925 63	7,421 19	204 16	109 81	4,558 62	40
	10 05						41
	18 25 1,098 68		1,804 57			1 901 69	42 43
	1,090 08		1,004 04			1,801 62	40
	919 77						44
	6,587 52	1,536 15	5,982 42	236 47	66-80	4,005 63	45
	930 05		OE FF1				46
	833 50 153 22	29 21	85 55 9,584 54	1,275 50		7,145 50	47 48
	100 22		0,004 04	1,270 00		4,145 50	49
	283 71						50
	436 71						51
							52
	435 32						53 54
	21 37						55
	2,01						00

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses for the

_							
	81	82	83	84	85		
No.		Transportation					
No.	Name of Railway.	Superintendence.	Despatching Trains.	Station Employees.	Weighing and Car Service Associations		
566 577 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	North Shore Railway Co Nova Scotia Steel and Coal Co. Orford Mountain Ottawa and New York Père Marquette. Phillipsburg Railway and Quarry Co. Princeton Branch of Washington Co. Quebec Central Quebec and Lake St. John Quebec Railway, Light and Power Co Quebec, Montreal and Southern. Red Mountain Rutland and Noyan Salisbury and Albert Schomberg and Aurora Stanstead, Shefford and Chambly St. Clair Tunnel St. Lawrence and Adirondack St. Martins Sydney and Louisburg Spokane and British Columbia.	2,094 03 14,990 02 173 62 6,113 05 9,401 87 314 54 863 92 387 56 145 96	6,176 92 83 77 4,844 66 3,622 68 694 85 1,793 55 156 37 44 38 244 61 6,468 16 282 40	\$ cts.  900 00 3,754 29 11,004 77 76,851 35  59,141 04 26,380 99 4,181 73 21,577 08 3,494 13 600 00 1,282 00  7,495 98 8,297 44 170 00 12,313 90 80 83	508 61 158 03 127 64 46 60 1 15 0 10 50 58 746 75 6,412 62		
77 78 79 80 81 82 83 84 85 86	Temiscouata Temiskamiug and Northern Ontario Thousand Islands Toronto, Hamilton and Buffalo Vancouver, Victoria and Eastern. Victoria Terminal Railway and Ferry Co. Victoria and Sidney, B.C. Wabash in Canada. Wellington Colliery Co. York and Carleton.	15,972 37	4,936 04 6,706 25 6 3,335 01		263 75 1,230 13 3 40 45 42 4,255 69		
	Final total	1,327,856 06	796,991 87	8,315,042 55	56,701 82		

86	87	88	89	90	91	92	
Expenses.							No
Coal and Ore Dock.	Station Supplies and Expenses.	Yardmasters and their Clerks.	Yard Conductors and Brakemen.	Yard Switch and Signal Tenders.	Yard Supplies and Expenses.	Yard Enginemen.	
\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	
	684 04 8,388 03 7,530 14	29 83 3,808 42	541 41 16,110 06	50 38 905 58	1 50	442 39 12,044 48	
	7,519 67 3,118 50 897 66		2,799 92 422 16		184 57	3,687 94 1,307 35	6: 6: 6: 6:
	3,318 39 308 83 132 83 22 22	75 93	32 32	60 00 954 72		603 75 98 67	
	1,250 24 2,288 00			384 00			7777
	296 16 35 75 1,053 37 12,437 63	2,327 53	14,008 77	737 46 3,675 38	1,219 40	9,865 99	7777
	672 15 6,009 70 4,866 27 29 68 389 64	4,528 75 855 72	19,053 85 4,409 01	1,432 05 79 85	42 41 11 78	14,070 19 3,319 77	
	2,069 78		2,407 62 3,212 46	3,212 46	3,212 46	1,899 74	
50,177 08	853,102 92	405,805 05	1,849,942 79	193,013 69	57,503 26	1,299,915 93	3

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses for the

	94	95	96	97	98
	•			TRAN	NSPORTATION
Number.	Name of Railway.	Enginehouse Expenses— Yard.	Fuel for Yard Locomotives	Water for Yard Locomotives	Lubricants for Yard Locomotives
		\$ cts.	\$ ets.	\$ cts.	\$ cts
1	Alberta Railway and Irrigation Co	601 98	4,564 32	505-86	171 93
2	Algoma Central and Hudson Bay				
3	Atlantic and Lake Superior Atlantic, Quebec and Western.				
5	Atlantic, Quebec and Western. Bay of Quinté. Bedlington and Nelson Bessemer and Barry's Bay.	9 68			
6	Bessemer and Barry's Bay				
8					
$\frac{9}{10}$	British Yukon		598-80		17 0
11	Canada Southern	24,296 62	95.226.79	5,737 67	1,468 2 4,222 1
12 13	Canadian Government Kailways—Intercolonial.	29,643 52 1,000 96		9,449 39 75 00	4,222 I
14	Canadian Northern—P. E. Island.	21,624 65	137,350 61	7,509 91	3,633 9
$\frac{15}{16}$	Canadian Northern, Ontario	679 06 3 29	7,326 06 22,398 32		167 5 257 0
17	Canadian Pacific	231,675 62	744,963 45	39,246 02	13,350 (
18	Cape Breton				
$\frac{19}{20}$	Carillon and Grenville				
21	Central Ontario		1,307 16	65 62	103 2
22 23	Chimberland Kahway and Coai Co				
24	Dominion Atlantic Elgin and Havelock	1,813 41	8,611 98	154 26	169 8
$\frac{25}{26}$	Rastonn Paitish Columbia				
27	Graud Trunk	47,148 91	388,178 10	17,009 42	5,409
28 29	Graud Trunk Grand Trunk (Canada Atlantic). Halifax and Southwestern. Hereford. Inverness Railway and Coal Co. Irondale, Bancroft & Ottawa.	62 77	1.722 66	1,761 19	41 4
30	Hereford	583 50	2,511 48	109 91	24 7
$\frac{31}{32}$	Inverness Kailway and Coal Co	570 61	1,871 93		82 8
33	Kaslo and Slocan				
34 35	Kaslo and Slocan Kent Northern Kettle River Valley Kingston and Pembroke Klondike Mines	30 00			
36	Kingston and Pembroke.		1,159 60		38 9
$\frac{37}{38}$					
39	Lotbinière and Megantic London and Port Stanley. Manitoulin and North Shore.				
$\frac{40}{41}$	London and Port Stanley	1,481 59	3,527 25	155 45	60 (
42	Maritime Coal Kallway and Power Co				
43 44	Midland Railway Co. of Manitoba (now Mam-				50 6
45	toba Great Northern)	919 21	5,515 86	218 21	87 (
46	Montreal and Atlantic				
$\frac{47}{48}$	Montreal and Vermont Junction.  Morrissey, Fernie and Michel			257 36	
49	Monoton and Ruotonaho				
50 51	Napierville Junction Nelson and Fort Sheppard.	14 48	648 67		1 9
52	INOW Drunswick Coal and Ballway Co				
£3	New Brunswick and P. E. Island New Brunswick Southern.		1	1	

99	100	101	102	103 ,	105	106
Expenses—C	ontinued.					
Other Supplies for Yard Locomotives	Total of last Fifteen Accounts.	Operating Joint Yards and Terminals— Dr.	Operating Joint Yards and Terminals— Cr.	Total Station and Yard Expenses.	Road Enginemen.	Enginehouse Expenses— Road.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	S ets.	\$ ets.	s ets.
21 07	28,282 23			33,465 11	14,192 31	1,824 03
	73,103 09 5,647 93			73,103 09 5,647 93	25,551 64 5,340 58	3,570 18
	2,628 25 11,104 70	9 600 00		2,628 25 13,704 70	$\begin{array}{c} 1,690 \ 35 \\ 6,575 \ 63 \end{array}$	691 65
	13 33			13 33	156 35	23 80
	570 63 9,366 62			570-63 9,366-62	$\begin{array}{c} 1,400 \ 00 \\ 6,026 \ 36 \end{array}$	1,464 54
22 39	$\begin{array}{c} 16,410 \ 37 \\ 2,882 \ 20 \end{array}$			16,410 37 2,882 29	3,879 88 3,244 65	3,083 35,
1,910 64	598,599-05	348,597 04		931,374 44	273,387 85	85,737 82
2,603 00 99 83	1,213,330 45 63,800 75	104,576 21	87,580 44	1,230,326 22 63,800 75	489,722 18 23,906 15	$\begin{array}{c} 234,430 \ 16 \\ 10.915 \ 92 \end{array}$
3,228 26	1,139,912 79	23,507 80	17,333 27	1,146,087 32	617,331 25	247,114 34
$ \begin{array}{c c} 13 & 46 \\ 202 & 25 \end{array} $	48,024 57 118,378 67	2,207 75	474 31	$\begin{array}{r} 48,024 \ 57 \\ 120,112 \ 11, \end{array}$	$\begin{array}{c} 26,878 & 16 \\ 51,928 & 71 \end{array}$	$13,188 53^{\circ} \\ 15,223 81_{\odot}$
20,098 48	7,075,101 23 $2,387$ 45	254,556 72	105,687 08	7,223,970 87 $2,387$ 45	$\begin{bmatrix} 3,368,859 & 28 \\ 1,977 & 85 \end{bmatrix}$	1,060,565 93
	5,305 80			5,305 80	1,220 52	857 61
	200 00 16,869 94			200 00 16,869 94	$ \begin{array}{r} 269 & 00 \\ 8,995 & 65 \end{array} $	3,943 88
	6,790 00 3,809 17			6,790 00	12,887 48	1,229 19
33 85	67,936 75	1,070 50	521 89	3,809 17 68,485 36	$\begin{array}{r} 4,389 \ 61 \\ 29,075 \ 49 \end{array}$	$\begin{array}{c} 1,403 \ 61 \\ 12,817 \ 66 \end{array}$
	408 00 1,418 04			408 00 1,418 04	$\begin{array}{c} 481 \ 54 \\ 2,644 \ 10 \end{array}$	289 00 908 83
8,299 49	3,488,533 52	21,184 28	427,646 41	3,082,071 39	1,180,079 47	245,337 26
968 06	$\begin{array}{r} 284,654 \ \ 47 \\ 21,557 \ \ 43 \end{array}$	4,223 75 16,541 89	6,015 84	282,862 38 38,099 32	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24,732 63 5,088 98
28 57 36 60	10,954 14 11,444 97	1,347 73	365 56	11,936 31	5,300 37	2,075 47
	1,651 41			11,444 97 1,651 41	5,397 81 1,172 05	1,923 32 493 87
	3,855 - 54 1,075 - 00			3,855 54 1,075 00	$\begin{array}{c} 1,360 \ 03 \\ 1,100 \ 00 \end{array}$	518 99
91.97	122 67			122 67	410 11	88 54
21 27	17,365 38 3,165 66	2,900 72		20,266 10 3,165 66	7,321 45 $2,503 30$	3,964 80 [ $783 10$
	391 50 1,144 51			391 50 1,144 51	1,134 95 1,163 40	50 00 654 43
9 59	32,329 53	190 64		32,520 17	7,975 74	2,747 95
	1 238 1,338 25			1,001 19 1,338 25	$\begin{bmatrix} 2,870 & 56 \\ 3,739 & 06 \end{bmatrix}$	948 27 3,448 44
	25,902 19			25,902 19	15,356 64	3,206 68
100.10	6,224 68	1,923 60		81,148 28	3,813 10	901 76
109 13	$\begin{array}{c} 69,102 & 95 \\ 5,755 & 36 \end{array}$	38,040 93 180 00	1 50	107,143 88 5,933 86	$\begin{array}{r} 45,983 \   86 \\ 3,373 \   11 \end{array}$	11,989 24 977 38
1,318 96	4,237 51 31,933 06		7 50	4,230  01 $31,933  06$	4,865 49	66 21
	1,203 51			1,203 51	1,809 01	· · · · · · · · · · · · · · · · · · ·
0 62	3,275 65 5,363 48	430 83 4,281 59		3,406 48 9,209 49	$\begin{array}{c} 1,765 & 41 \\ 4.636 & 27 \end{array}$	704 18 476 04
	8,595 49 1,083 00			8,595 49	5,360 01	
				1,083 00	2 04.1 7.7	1

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses for the

	94	95	96	97	98		
		Transportation					
Number.	Name of Railway.	Enginehouse Expenses —Yard.	for Yard	Water for Yard Locomotives	Lubricants for Yard Locomotives		
		\$ ets.	\$ ets.	\$ cts.	\$ cts.		
55 56 57	New Westminster Southern						
58 59 60 61 62	Orford Mountain Ottawa and New York. Père Marquette. Phillipsburg Railway and Quarry Co. Princeton Branch of Washington Co	32 36 5,049 43	1,361 90 30,792 52	1,238 80	62 28 547 16		
63 64 65 66	Quebec Central. Quebec and Lake St. John Quebec Railway Light and Power Co Quebec Montreal and Southern Red Mountain	4 98 122 96 412 98	5,428 51 1,565 30 3,501 20	178 33 8 75 57 65	59 81 28 14 11 65		
69 69	Red Mountain Rutland and Noyan. Salisbury and Albert Schomberg and Aurora.	31 65	183 86	5 71	3 08		
$70 \\ 71 \\ 72$	Schomberg and Aurora. Stanstead, Shefford and Chambly St. Clair Tunnel. St. Lawrence and Adirondack. St. Martin's	26 60		6 00			
73 74 75 76	Spokane and British Columbia.						
77 78 79	Temiscouata	1.587 01	l 95 159 37	1 099 25	492 22		
80 81 82 83	Thousaud Islands. Toronto, Hamilton & Buffalo. Vancouver, Victoria and Eastern Victoria Terminal Railway and Ferry Co. Victoria and Sidney, B.C.	2,599 15 811 59	27,639 04 7,260 41	1,183 89 1 69			
84 85 86	Wabash in Canada Wellington Colliery Co. York and Carleton	1 14	3,389 31 3,276 00	48 00	0 37		
	Final total		1,737,575 56		32,057 60		

99	100	101	102	103	105	106	
Expenses-6	Continued.						
Other Supplies for Yard Locomotives	Total of last Fifteen Accounts.	Operating Joint Yards and Terminals— Dr.	Operating Joint Yards and Terminals— Cr.	Total Station and Yard Expenses.	Road Enginemen.	Enginehouse Expenses— Road.	Number.
\$ cts	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	
9 48 67 14	1,086 00 4,438 33 22,053 65 156,588 92				1,815 66 1,002 45 1,533 70 2,590 94 6,065 28 84,574 81	1,296 73 17,579 87	55 56 57 58 59 60 61
64 32 13 57 4 32	67,169 32 42,065 90 9,920 63 29,579 34 3,849 56 2,222 94 1,304 22	1,354 50	3,766 75 699 50	67,169 32 38,299 15 9,920 63 30,234 34 3,849 56 2,222 94 1,304 22	1,488 46 44,753 67 30,368 48 2,638 80 10,106 24 1,666 59 635 18 2,841 70	694 85 7,313 11 14,355 64 269 60 4,937 41 446 18 244 70 75 67	62 63 64 65 66 67 68 69
	9,162 92 3,943 31 10,683 23 916 75 24,063 86 116 58	282 43 3,300 04 780 00	220 00	9,445 35 3,943 31 13,763 27 916 75 24,843 86 116 58	3,618 13 16,552 45 1,115 50 28,197 40 136 53	955 99 4,557 16 385 00 8,534 44 81 45	70 71 72 73 74 75 76
89 56 249 33 110 66	284 34 3,815 71	31,297 39 7,717 94	53,915 06	10,389 65 170,850 56 4,162 44 102,591 46 56,200 56 284 34 3,815 71 310,519 85	2,311 65 35,318 67 40,770 57 161 87 2,152 43	15,537 50 10,406 68 6,315 76 45 10 599 35	79 80 81 82 83
1,173 88		210,011 07		17,347 71			85 86
40,807 38	15,360,054 80	1,198,663 69	721,120 42	15,837,598 07	6,891,165 42	2,125,418 22	

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses for the

	107	108	109	110	111			
		Transportation						
No.	Name of Railway.	Fuel for Road Locomotives	Water for Road Locomotives	Lubricants for Road Locomotives.	Other Supplies for Road Locomotives.			
		\$ cts.	\$ cts.	\$ cts.	\$ cts.			
1 2 3 4 5 6 7 8 9 10	Alberta Ry. and Irrigation Co	22,931 61 26,473 85 13,829 24 5,303 65 26,026 94 2,055 99 9,295 79 6,458 04 584,443 43	1,149 24 207 03 5 00 309 59 840 36 820 62 201 13	828 10 829 87 573 58 197 93 280 30 3 71 178 07 112 48 144 62 439 70 12,679 14	283 04 225 05 175 60 61 19 342 54 2 41 			
12 13 14 15 16 17	Canadian Government Railways— Intercolonial. Prince Edward Island. Canadian Northern. Canadian Northern, Ontario. Canadian Northern, Quebec. Canadian Pacific. Cape Breton.	1,499,373 01 45,858 46 1,445,456 71 85,915 00 184,911 53 7,407,584 02 2,318 81	1,942 86 82,167 03 3,812 19 6,537 69 385,428 85	28,140 75 1,071 23 39,769 85 2,259 48 2,968 76 108,890 28 240 17	13,614 97 944 66 35,882 25 835 76 2,276 87 159,860 72			
19 20 21	Caraquet Carillon and Grenville Central Ontario	8,066 92 442 50 34,201 34	480 00 731 99	470 00 47 20 598 49	100 25 20 30 260 75			
22 23 24 25	Crowsnest Southern. Cumberland Ry. and Coal Co Dominion Atlantic. Elgin and Havelock.	24.021 96 4,292 00 80,247 27 1,744 88	79 50 1,566 13	1,630 67	525 96 363 99			
26 27 28	Eastern British Columbia	1,284 41 3,351,100 34 284,168 94	29 50 122,193 63 12,363 68	31,402 29 3,559 81	86 17 56,671 75 4,849 61			
29 30 31 32	Halifax and Southwestern	14,628 05	541 50 186 72	1,304 19 107 00 489 25 84 50	332 11			
33 34 35	Kaslo and Slocan  Kent Northern  Kettle River Valley.	2,521 14 2,000 00 493 83	102 00 25 00 17 59	\$3 53 100 00 3 43	22 59 100 00 13 42			
37 38	Kingston and Pembroke	1,679 74	228 00 25 00	100 79 98 51	49 65			
39 40 41 42	Lotbinière and Megantic. London and Port Stanley. Manitoulin and North Shore. Maritime Coal, Railway and Power Co	22,409 02 8,083 22 10,814 76	$\begin{vmatrix} 1,007 & 50 \\ 166 & 15 \\ 559 & 16 \end{vmatrix}$	351 84 83 17 726 20	244 18 53 83 219 16			
43	Massawippi Valley. Midland Ry. Co. of Manitoba, (now Manitoba Great Northern).	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	201 21	. 58 66	75 25			
45 46 47	Montreal and Atlantic  Montreal and Province Line  Montreal and Vermont Junction.	11.750 24 16,356 57	748 79 866 08		1,803 33 121 71 83 52			
48 49 50 51	Morrissey, Fernie and Michel. Moncton and Buctouche. Napierville Junction Nelson and Fort Sheppard.	3,242 22 9,544 58 10,837 98	440 34 176 96	180 26	33 09 176 53			
	New Brunswick Coal and Railway Co New Brunswick and Prince Edward Island New Brunswick Southern		50 00	139 42				

112	113	114	115	116	117	118	
Expenses—C	ontinued.						
Operating Power Plant.	Road Trainmen.	Train Supplies and Expenses.	Interlockers, Block and other Signals— O peration.	Crossing Flagmen and Gatemen.	Drawbridge Operation.	Clearing Wrecks.	No
\$ cts	\$ ets.	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ ets.	
•	15,377 57 6,632 16	1,150 81 1,511 51					2
	4,780 30 2,032 20 7,295 39	498 65 712 44	2,025 93			25 00	
	198 37 6,335 20	2,200 01	6,546 57		••••••	0 08 82 32	8
	$\begin{array}{r} 4,595 & 20 \\ 3,684 & 88 \\ 296,685 & 21 \end{array}$	740 32 188 84 81,940 07		8,733 14	2,083 33	17 67 1,493 25	9 10 11
	638,062 73 32,456 67 605,896 50 25,179 70	174,124 49 7,337 68 204,536 58 14,332 97		12,515 37 1,402 95 526 33	3,891 93 669 20 898 18 1,050 77	15,765 12 142 13 58,437 50 2,332 78	13
	44,457 49 3,565,938 48	15,236 32 1,328,341 79 31 99	4,446 90 51,035 01	2,944 44 25,805 46	227 69 7,886 68	3,373 49 176,418 38	16 17 18
	2,82391 $23000$ $10,50777$	1,102 00					19 20 21
	12,122 57 8,480 80 39,926 22	3,349 49 11,207 78	96 53 170 19		1,556 00	503 38	23 24
	1,500 22 1,998 45 1,171,730 09 97,241 21	111 69 365,299 57 28,006 35	25,862 08 568 81	62,227 46 3,224 54	13,105 36 2,953 99	43 60 44 75 26,201 27 5,837 78	25 26 27 28
	19,670 07 6,986 95 6,316 95	5,985 34 922 53 2,064 16	18 79	156 50 0 19	161 12	1,264 57 122 95 111 74	29 30 31
	1,227 73 2,021 56	$\begin{array}{c} 160 \ 60 \\ 180 \ 70 \\ 1,025 \ 00 \end{array}$			•••••		34
	449 91 8,762 78 2,968 45 984 38	14 75 2,151 48 681 47	749 20	50 69	••••••••	25 66 12 45	35 36 37 38
	1,897 55 7,053 31 3,269 06	219 08 685 91 365 29		633 40			39 40 41
	4,823 15 16,241 11	263 12 1,978 49	65 79			11 02	42
	4,377 06 44,184 21 3,883 12 3,022 43	1,522 26 7,983 91 1,557 24 2,986 34	6,316 48 2,514 89	162 77	320 80 242 50	100 12 502 00 136 65 14 90	45 46
	1,682 65 1,946 37 4,357 10	7 71 278 16 1,765 14	1,075 43		• • • • • • • • • • • • • • • • • • • •	443 64 136 34	48 49 50 51
	5,831 63 1,990 40 3,052 34	453 63		13 45			52 53

1 GEORGE V., A. 1911 TABLE 8.—SUMMARY of Operating Expenses

	107	108	109	110	111
				T	RANSPORTATION
Number.	Name of Railway.	Fuel for Road Locomotives	Water for Road Locomotives	Lubricants for Road Locomotives.	Other Supplies for Road Locomotives.
		\$ ets.	\$ cts.	\$ cts.	\$ cts.
59 60 61 62 63 64 65 66 67 68	New Westminster Southern. North Shore Railway Co. Nova Scotia Steel and Coal Co. Orford Mountain Ottawa and New York Pére Marquette. Phillipsburg Railway and Quarry Co. Princeton Branch of Washington Co. Quebec Central Quebec Central Quebec Railway, Light and Power Co. Quebec, Montreal and Southern. Red Mountain. Rutland and Noyan. Salisbury and Albert. Schomberg and Aurora Stanstead, Shefford and Chambly. St. Clair Tunnel. St. Lawrence and Adirondack St. Martins Sydney and Louisburg. Spokane and British Columbia. Temiscouata Temiskaming and Northern Ontario. Thousand Islands. Toronto, Hamilton and Buffalo. Vancouver, Victoria and Eastern Victoria Terminal Railway and Ferry Co. Victoria and Sidney, B.C. Walbash Railroad Co. in Canada.	1,616 59 833 94 1,683 33 4,822 92 13,767 66 237,324 73 140,055 65 113,630 07 5,744 50 40,216 00 3,962 05 1,130 78 7,289 18 2,208 47 11,656 37 2,457 09 24,764 86 29,817 25 189,111 06 6,926 42 90,118 31 75,411 53 346 93 4,616 77 185,743 00	79 25 946 04 9,268 22 129 16 2,247 61 197 59 52 53 362 59 654 81 3,763 45 18 70 1,633 10 9,998 92 3,534 19 2,835 51 12 55 168 25	436 26 3,491 27 106 19 1,651 67 1,180 75	2,547 76  18 62 263 80 2,013 73 64 49 493 83 45 15 17 41  240 37 167 46  1,970 00 4 25 281 97 1,902 88 69 16 1,019 00 867 50 1 30 17 31
86	Wellington Colliery Co	450 00		60 00	
	Final total	10,002,011 10	768,167 84	270,872 01	306,586 55

112	113	114	115	116	117	118	
Expenses-C	ontinued.						
Operating Power Plants	on Plants Twainnan		rain Supplies and Expenses.  Interlockers, Block and other Signals—Operation.		Drawbridge Operation.	Clearing Wrecks.	Number.
\$ cts.	\$ cts.	\$ cts	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
	3,118 05	374 58				184 53	55 56
	1,220 70 1,900 46	81 00 75 07					57 58
	7,224 73 88,675 14	1,128 28 25,611 71	3,232 91 4,447 65	845 15	714 00 354 00	1,353 09	59 60
	979 47 42,253 50	187 20 8,408 96				183 18	61 62 63
	29,486 89 4,069 60	9,689 20	17 88 0 30	1,001 13	416 22	1,077 36 8 52	
	10,912 09 $2,062 45$	10,496 56 339 85	2,421 01	110 01	573 37	263 72 7 95	66 67
	689 08 1,945 00	164 90 92 07	4 87			14 00 f 162 S0	68
	3,449 12	2,831 82	949 00			190 63	70
	21,502 55	7,380 85	1,607 88	8 86		70 92	72
	1,945 37 24,022 76	266 12					74 75
	145 67 9,030 30	13 11 1,621 65				1,623 47	76 77
175 48	58,589 67 1,118 00	16,955 50 133 43				4,613 15 62 75	78
	37,992 80 37,691 99	18,084 17 9,278 36	2,098 37		2,908 36	$\begin{array}{r} 616 & 20 \\ 5,779 & 44 \end{array}$	80
	139 70 1,856 60	23 69 319 73			2,308 50	4 27	82 83
	91,330 24	36.885 88		10 19		935 03	
	600 00	5 00					86
175 48	7,247,121 40	2,428,155 75	230,629 58	128,315 59	41,167 50	314,005 59	

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

-=					
	120	121	122	123	124
				TRA	NSPORTATION
Number.	Name of Railway.	Telegragh and Telephone— Operation.	Operating Floating Equipment.	Express Service.	Stationery and Printing.
		\$ cts.	\$ cts.	8 cts.	\$ ets.
$\frac{1}{2}$	Alberta Railway and Irrigation Co	1,383 01 989 69			3,769 30 673 41
3 4 5 6	Atlantic and Lake Superior Atlantic, Quebec and Western Bay of Quinté Bedlington and Nelson	46 27			53 79 1,336 61
7 8 9	Bessenier and Barry's Bay Brandon, Saskatchewan and Hudson Bay British Yukon	208 38 1,371 25			268 83 529 10
10 11 12 13	Brockville, Westport and Northwestern.  Canada Southern  Canadian Government Railways—Intercolonial.  P. E. Islaud	21,348 25 10,758 53 7,051 57	139,807 05 42,223 71 223 88		25,079 37 56,166 27 6,135 03
14 15 16 17	Canadian Northern Canadian Northern, Ontario Canadian Northern, Quebec Canadian Pacific	1 60			57,813 30 3,921 96 5,778 05 233,063 98
18 19	Cape Breton	588 45			
20 21 22	Carillon and Grenville Central Outario Crowsnest Southern.	4 70			597 70 463 76
23 24	Dominion Atlantic.	30 59			3,657 30
25 26 27	Elgm and Havelock Eastern British Columbia Grand Trunk	29,562 14	126,087 02		$\begin{array}{c} 10 \ 00 \\ 251 \ 02 \\ 107.915 \ 34 \end{array}$
28 29	Grand Trunk (Canada Atlantic). Halifax and Southwestern.	878 21 207 87		5,637 11	7,404 14 2,873 93
30 31 32	Elgin and Havelock Eastern British Columbia Grand Trunk Grand Trunk (Canada Atlantic) Halifax and Southwestern Hereford Inverness Railway and Coal Co Irondale, Bancroft and Ottawa Kaslo and Slocan Kent Northern Kettle River Valley Kingston and Pembroke	78 14 1 75			207 95 216 87 85 27
33 34 35	Kaslo and Slocan	158 38 100 00		120 00	68 58
36 37	Klondike Mines				1,140 11 167 45
38 39 40	Liverpool and Milton Lotbinière and Mégantic London and Port Stanley Manitoulin and North Shore	409.78			181 49 735 07
41 42	Maritime Coal Railway and Power Co				5 90
43 44	Massawippi Valley.  Midland Railway Co, of Manitoba now Manitoba Great Northern	106 32			506 26 190 73
45 46 47	Montreal and Atlantic.  Montreal and Province Line.  Montreal and Vermout Junction	134 82 118 18 230 65			4.117 13 294 36 816 94
48 49 50 51	Morrissey, Fernie and Michel	372 54 668 98			273 45 217 30
52 53 54	New Brunswick Coal and Ry. Co.  New Brunswick and P.E. Island  New Brunswick Southern				1.000 47
55 56	New Westminster Southern North Shore Railway Co	31 49			57 97

SESSIONAL PAPER No. 20b

126	127	128	129	130	131	132	
Expenses—	Continued.	<u> </u>		·			
Other Expenses.	Loss and Damage —Freight.	Loss and Damage— Baggage,	Damage to Property.	Damage to Stock on Right of Way.	Injuries to Persons.	Total of Last Twenty-six Accounts.	Number.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ ets.	
5 00 820 35 <b>1,</b> 386 85 91 90	386 06 1 68 222 75 29 05		2,143 78 148 30	270 00 23 95	62 50	68,516 51 69,055 58 27,075 16	
7,219 20	2 35 1 88		900.15	24 00	11 25 0 89	10,666 26 52,233 30 594 88	5
1,503 63 1,753 41	149 80 58 92	Cr. 5 01	300 17	29 53	18 41 0 96 77 80	3,634 06 35,453 81 23,555 24	8
237 79 20,378 22 4 54	48,468 85 25,994 39 235 26	578 94 131 76	4,923 73 5,007 49 50 88	2,734 41 2,309 74 24 50	14,791 02 7,662 45	$\begin{array}{r} 14,702 \ 83 \\ 1,689,667 \ 78 \\ 3,341,821 \ 31 \\ 138,970 \ 62 \end{array}$	$     \begin{array}{c c}         & 10 \\         & 11 \\         & 12 \\         & 13     \end{array} $
3,784 96 258 83 2,082 00 58,397 61	47,441 37 565 41 3,801 73	217 56 103 14 298 57	300 17 4,923 73 5,007 49 50 88 21,162 62 2,565 79 2,320 10 67,274 10 15 00	3,040 43 597 50 493 98	31,558 07 1,296 35 5,642 35	3,557,866 06 189,643 25 354,950 48	$14 \\ 15 \\ 16$
00,087 01	11 25 259 04	5,012 04	15 00	36 50	0(1,000 00	$\begin{array}{c} 19,050,891 \ 88 \\ 4,595 \ 07 \\ 16,071 \ 70 \end{array}$	17 18 19
4,821 49 2,518 83 2,019 24	64-74 509-77	Cr. 5 02	57 00 27 56 438 50	95 00 1,076 77	811 62	16,071 70 1,009 00 68,172 59 62,284 38	20 21 22
360 50 41 78	113 01	307 95	438 50	308 60	125 20	184,706 43 4,412 26	24 24 25
98,257 57 1,287 62	171,992 91 13,552 46 538 35	Cr. 2,840 46 338 41 42 50	24,596 10 2,378 67	$\begin{array}{r} 13,169 \ 60 \\ 761 \ 47 \\ 28 \ 00 \end{array}$	124,088 92 1,236 81 208 13	7,539 68 7,349,720 63 589,557 47 134,339 46	26 27 28 29
51 30. 5 30	346 95 31 67 11 63	5 75	24,596 10 2,378 67 150 24	25 44 62 00 11 00	284 05	28,812 70 31,890 09 8,121 16	$\frac{30}{31}$
8 08 607 35	19 40		* 1 * * * * * * * * * * * * * * .	******		1,526 70	33 34 35
553 50 1,169 38	135 75	32 21	960 49 20 00 193 68 4 18 807 77	55 50	27 00	46,823 62 16,880 87 4,022 23	
1,165 58 8 40 1,868 58 99 37	1,198 80		193 68 4 18 807 77	21 47	1,961 63	9,241 73 47,723 22 18,170 60	39 40 41
	786 77	Cr. 3 52				25,680 69 64,050 88	
1,049 62 126 29	1.203 13	Cr. 3 52 134 85 28 00	$\begin{array}{r} 47 \ 99 \\ 8,682 \ 43 \\ 229 \ 50 \\ 141 \ 50 \end{array}$	$\begin{array}{r} 324 & 00 \\ 70 & 00 \\ 24 & 27 \end{array}$	16 00 19,182 04 27 00	$\begin{array}{r} 24,511 & 45 \\ 269,628 & 94 \\ 24,399 & 47 \\ 31,068 & 22 \end{array}$	44 45 46 47
1,543 98 305 20 11 24	42 94	Cr. 2 70	3 05 8 28	9 00 10 00	13 40	$\begin{array}{r} + & 1,560 & 23 \\ - & 7,315 & 66 \\ - & 17,075 & 19 \end{array}$	$\frac{48}{49}$ $\frac{50}{2}$
1,239 51	81 19 22 40  19 21			396 53 25 00 20 00	288 29	23,548 83 9,144 62	
92 00	19 21 361 47	1 08	302 80 7 95	528 89	51 02	$\begin{array}{c} 16,761 & 91 \\ 8,830 & 03 \\ 1,920 & 27 \end{array}$	55

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

_			1		
	120	121	122	123	124
				TRA	NSPORTATION
Number.	Name of Railway.	Transporta- tion and Telephone— Operations.	Operating Floating Equipment.	Express Service.	Stationery and Printing.
		\$ cts.	\$ cts.	\$ ·cts.	\$ ets.
57 58 59 60 61	Nova Scotia Steel and Coal Co. Orford Mountain Ottawa and New York Père Marquette. Phillipsburg Ry. and Quarry Co.	1.665 75			227 40 1,056 52 7,819 33
62 63 64 65	Princeton Branch of Washington Co Quebec Central Quebec and Lake St. John Ouebec Ry. Light and Power Co.	2,903 17			0 97 4,405 46 2,391 57 495 18
66 67 68 69	Quebce, Montreal and Southern Red Mountain Rutland and Noyan Salisbury and Albert	61 13 32 48 14 79			2,553 23 69 76 63 52 36 13
70 71 72	Schomberg and Aurora. Stanstead, Shefford and Chambly. St. Clair Tuunel	140 52			328 12
73 74 75	St. Lawrence and Adirondack St. Martins Sydney and Louisburg.	98 50			596 98
76 77 78	Spokane and British Columbia	16,193 64			$\begin{array}{r} 24 & 22 \\ 1,900 & 11 \\ 11,722 & 23 \end{array}$
79 80 81	Thousand Islands. Toronto, Hamilton and Buffalo Vancouver, Victoria and Eastern. Victoria Terminal Ry, and Ferry Co.	425 25 2,380 40	11,712 81	305 02	279 39 6,356 05 1,204 14
82 83 84 85	Victoria Terminal Ry, and Ferry Co. Victoria and Sidney, B.C. Wabash (in Canada). Wellington Colliery Co.	1,435 86			5,298 12
86	York and Carleton				• • • • • • • • • • • • • • • • • • • •
	Final total	237,189 55	390,301 92	6,717 25	575,269 34

SESSIONAL PAPER No. 20b

126	127	128	129	130	131	132	
Expenses—	Continued.						
	Loss and Damage —Freight.	Loss and Damage Baggage,	Damage to Property.	Damage to Stock on Right of Way.	Injuries to Persons.	Total of Last Twenty-six Accounts.	Number.
\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
229 07 20 90 3,080 26	12 63 254 61 22,735 77		3,744 02 4,028 79	25 00 110 00 1,205 36	2,034 55 20,744 38	4,679 78 10,185 35 43,717 16 563,301 83	58 59 60
28,813 63 337 22 15 29 230 31 438 37 1 70 6 00	47 58 1,146 08 808 32 72 04 885 85 184 21 73 39	1 18 190 07 78 75	86 94 247 81 158 98 7,879 19	740 00 21 00 96 25 5 45 1 28 6 33	217 75 4 95 Cr. 55 35 124 31	291,865 16 213,673 21 14,666 94 87,229 90 17,508 61 3,153 33 12,830 20	63 64 65 66 67 68 69
87 00	806 34		948 87	66 00	6,110 40	3,484 84 32,557 29 44,153 83	72
126 24	1,201 56	17 28	109 29	143 72	33 63 5,975 62	$ \begin{array}{r} 128,457 \ 37 \\ 6,102 \ 46 \\ 99,881 \ 43 \\ 99,87 \ 96 \\ 55 \ 970 \ 15 \end{array} $	75 76
389 25 2,753 62 339 50	1,369 49	168 46	671 60 247 09 1,148 21	63 50 890 65		55,270 17 394,805 35 14,065 63 217,427 08	79
7,361 95 0 30	846 46 3 37 50 02	1 21	$\begin{array}{c} 1,148 & 21 \\ 1,678 & 77 \\ 2 & 45 \\ 32 & 66 \\ 6,475 & 47, \end{array}$	1,890 68 14 86	$\begin{array}{c} 1,658 \ 88 \\ 23,985 \ 87 \\ 1 \ 78 \\ 24 \ 22 \\ 3,293 \ 35 \end{array}$	235,856 66 767 99 10,227 76	81 82
10,219 79	44,843 25	163 41	6,475 47	1,111 98	3,293 35	513,638 92 2,195 00	84
270,420 72	865,688 58	15,007 36	172,429 79	57,281 26	658,205 05	40,877,262 71	

1 GEORGE V., A. 1911
TABLE 8.—SUMMARY of Operating Expenses

Name of Railway.							
Name of Railway.		133	134	135	136	138	139
Department   Canada Southern			TRAN	SSPORTATION 1	Expenses—Con	tinued.	
S cts.   S	mber.	Name of Railway.	Joint	Joint Tracks.	Movement	Transporta- tion	and Expenses
Alberta Ry, and Irrigation Co.   101,981 62   105,470 28   9,270 00	ž		Dr.	Cr.	23xpetisee.	Expenses.	
2   Algoma Central and Hudson Bay   142,158 67   148,683 73   3,368 44   2,529 10			\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ cts.
3 Atlantic and Lake Superior   33,203 09   33,200 44   2,529 16   5 Bay of Quinte.   5,200 00   71,138 00   73,518 79   4,688 13   6 Bedlington and Nestorn   608 21   648 17   52 03   6 Bedlington and Barry's Bay   4,204 69   4,204 69   125 00   8 Brandon, Saskatchewan and Hudson Bay.   44,804 43   46,662 41   496 29   8 Brandon, Saskatchewan and Hudson Bay.   44,804 43   44,007 57   3,876 44   9 British Yukon.   30,965 61   44,007 57   3,876 44   44,007 57   44,007	1	Alberta Ry. and Irrigation Co					
5   5   5   5   6   5   6   6   6   6	3	Atlantic and Lake Superior			32,723 09	33,200 44	2,529 16
6 Bedington and Nelson.  7 Bessener and Barry's Bay  8 Brandon, Saskatchewan and Hudson Say.  9 British Yukon.  10 Brockville, Westport and North western  11 Canada Southern.  23,671 64  28,507 79  2,616,206 07  2,684,089 55  33,766 44  24,702 93  27,711 75  28,684,089 55  29,2771 37  211,698 56  10,885 69  20,771 37  211,698 56  20,462 83  202,771 37  211,698 56  15 Canadian Northern.  10,885 69  10 Canadian Northern.  10 Canadian North	5	Atlantic, Quebec and Western Bay of Quinte	5 200 00				
Son Bay.	- 6	Bedlington and Nelson			608 21	648 17	52 03
Son Bay.	$-\frac{7}{8}$	Bessemer and Barry's Bay Brandon, Saskatchewan and Hud-			4,204 69	4,204 69	125 00
western   Canada Southern   23,671 64   28,507 79   2,616,206 67   26,86,989 85   33,561 40   20,462 83   20,462	9	son Bay. British Yukon.					
12   Intercolonial   10,885 69   4,883,032 22   4,802,924 06   20,482 83   2		western		28,507 79			
15 Canadian Northern, Ontario   12,508 of   25,017 89   262,117 72   4,028 34   16 Canadian Northern, Quebec   625 00   125 00   475,562 59   490,428 89   4,159 47   17 Canadian Pacific   30,360 00   5,701 25   18 Cape Breton   26,299,521 50   27,425,187 61   285,035 26   18 Cape Breton   21,377 50   21,377 50   21,377 50   3,700 00   19 Caraquet   1,209 00   1,769 00   1,769 00   1,769 00   20 Carrillon and Grenville   1,209 00   1,769 00   1,7		Intercolonial.	10,885 69				
20 Carillon and Grenville	13	Canadian Northern.					
20 Carillon and Grenville	15	Canadian Northern, Ontario	12,508 07		250,175 89	262,117 72	4,028 34
20 Carillon and Grenville	16	Canadian Northern, Quebec	625 00 30,360 00	$125 00 \\ 5.701 25$			
20 Carillon and Grenville	18	Cape Breton			6,982 52	7,372 52	1,846 98
21 Central Ontario	13	Caraquet			1,209 00		3,700 00
23 Cumberland Ry, and Coal Co. 24 Dominion Atlantic 25 Elgin and Havelock 25 Elgin and Havelock 26 Eastern British Columbia 27 Grand Trunk 28 Grand Trunk 29 Halifax and Southwestern 29 Halifax and Southwestern 20 Halifax and Southwestern 21 Crand Trunk 22 Quarter Average Av	21	Central Outario			85,042 53	87 113 48	
25   190mmon Atlantic.   253, 191   79   259, 366   66   15, 225   29	23	Cumberland Ry, and Coal Co				27,224 49	959 40
26 Eastern British Columbia       8,957 72       12,276 28         27 Grand Trunk       10,181 97       126,355 93       10,315,618 06       10,576,862 25       164,116 83         28 Grand Trunk (Canada Atlantic)       1,196 34       1,582 63       872,033 56       906,833 82       8,178 82         29 Halifax and Southwestern       172,438 78       181,344 31       5,829 89         30 Hereford       27 20       40,721 81       41,771 17       678 63         31 Inverness Ry, and Coal Co.       43,335 06       43,935 06       1,758 91         21 Irondale, Bancroft and Ottawa.       9,772 57       11,152 91       2,040 00         33 Kaslo and Slocan.       11,218 32       12,938 96       9.66         34 Kent Northeru       5,525 00       5,525 00       1,200 00         35 Kingston and Pembroke       67,089 72       69,698 28       3,792 14         37 Klondike Mines       20,046 53       20,046 53       20,046 53       6,900 00         38 Liverpool and Milton       4,413 73       4,413 73       300 00         39 Lotbinière and Megantic       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24       10,386 24	24	Dominion Atlantic	1		253,191 79	259,366 66	15,225 29
12,488 / 8   181,344 31   3,829 89   30   Herreford.	26 26	Eastern British Columbia			4,820 26) 8,957 72		998 10
12,488 / 8   181,344 31   3,829 89   30   Herreford.	27	Grand Trunk	10,181 97	126,355 93	10,315,618 06		
30   Hereford.   27   20   49,721   81   41,771   17   678   633   Inverness Ry. and Coal Co.   43,335   66   43,935   66   1,758   91   2,040   60   32   Irondale, Bancroft and Ottawa.   9,772   57   11,152   91   2,040   60   34   Kaslo and Slocan.   11,218   32   12,938   96   96   66   34   Kent Northeru   5,525   60   5,525   60   1,200   60   63   64   67,089   72   69,698   28   3,792   14   67,089   72   69,698   28   3,792   14   67,089   72   69,698   28   3,792   14   67,089   72   69,698   28   3,792   14   67,089   72   69,698   28   3,792   14   67,089   72   69,698   28   3,792   14   67,089   72   69,698   28   3,792   14   67,089   73   14   17,719   17   17   17   17   17   17   17	29	Halifax and Southwestern	1,196 34	1,382 63	172,438 78		
32   Irondale, Bancroft and Ottawa.	30	Hereford		27 20			
34 Kent Northeru       5,525 00       5,525 00       1,200 00         35 Kettle River Valley       1,649 37       1,719 87       253 93         36 Kingston and Pembroke       67,089 72       60,698 28       3,792 14         37 Klondike Mines       20,046 53       20,046 53       6,900 00         38 Liverpool and Milton       4,413 73       4,413 73       300 00         39 Lotbiniere and Megantic       10,386 24       10,386 24       10,386 24         40 London and Port Stanley       2,336 98       77,906 41       79,818 89       565 60         41 Manitoulin and North Shore       19,171 19       21,399 98       1,696 73       23,800       43,878 40         43 Massawippi Valley       525 00       90,478 07       90,703 07       599 11       44 Midland Ry. Co. of Manitoba, now Manitoba Great Northern       32,659 73       33,666 54       324 22         45 Montreal and Atlantic       611 73       377,384 55       389,997 73          46 Montreal, Vermont Junction       35,298 23       37,119 32       1,081 72         48 Morrissey, Fernie and Michel       33,493 29       35,413 29       2,068 13         49 Montreal and Buctouche       8,519 17       8,519 17       1,800 00         50 Napierville Junction       20,	32	Irondale, Bancroft and Ottawa				11,152 91	
35 Kettle River Valley	33	Kaslo and Slocan					
36 Kingston and Pembroke       67,089 72       69,698 28       3,792 14         37 Klondike Mines       20,046 53       20,046 53       6,900 00         38 Liverpool and Milton       4,413 73       4,413 73       300 00         39 Lotbinière and Megantic       10,386 24       10,386 24       3,878 40         40 London and Port Stanley       2,336 98       77,906 41       79,818 89       565 60         41 Manitoulin and North Shore       19,171 19       21,339 98       1,696 73         42 Maritime Coal, Ry. & Power Co.       27,018 94       27,018 94       27,018 94         43 Massawippi Valley       525 00       90,478 07       90,703 07       599 11         44 Midland Ry. Co. of Manitoba, now Manitoba Great Northern       32,659 73       33,686 54       324 22         45 Montreal and Atlantic       611 73       377,384 55       389,997 73          46 Montreal, Vermont Junction       35,298 23       37,119 32       1,081 72         48 Morrissey, Fernie and Michel       33,493 29       35,413 29       2,068 13         49 Montreal and Buctouche       8,519 17       8,519 17       8,519 17       1,800 00         50 Napierville Junction       20,481 67       20,708 56       507 26         51 Neison and Fort Shepp	35	Kettle River Valley				1,719 87	253 93
38 Liverpool and Milton       4,413 73       4,413 73       300 00         39 Lotbinière and Megantic.       10,386 24       10,386 24       3,878 40         40 London and Port Stanley.       2,336 98       77,906 41       79,818 89       565 60         41 Manitoulin and North Shore       19,171 19       21,399 98       1,696 73         42 Maritime Coal, Ry. & Power Co.       27,018 94       27,018 94       27,018 94       2,380 00         43 Massawippi Valley.       525 00       90,478 07       90,703 07       599 11         44 Midland Ry. Co. of Manitoba, now Manitoba Great Northern       32,659 73       33,686 54       324 22         45 Montreal and Atlantic.       611 73       377,384 55       389,997 73          46 Montreal and Province Line       165 00       30,498 33       31,304 02       381 36         47 Montreal, Vermont Junction       35,298 23       37,119 32       1,081 72         48 Mortrissey, Fernie and Michel       33,493 29       35,143 29       2,068 13         49 Montreal and Buctouche.       8,519 17       8,519 17       1,800 00         50 Napierville Junction       20,481 67       20,708 56       507 26         51 Neison and Fort Sheppard       34,849 49       36,967 94       574 24 </td <td>- 36</td> <td>Kingston and Pembroke</td> <td></td> <td></td> <td></td> <td></td> <td></td>	- 36	Kingston and Pembroke					
39 Lotolinere and Megantic.   10,386 24   10,386 24   3,878 40   10 London and Port Stanley.   2,336 98   77,906 41   79,818 89   565 60   10 Manitoulin and North Shore   19,171 19   21,399 98   1,696 73   1	38	Liverpool and Milton					
19,171 19   21,399 98   1,696 73   22,7018 94   27,0	39	Lot biniere and Megantic					
42 Marktime Coal, Ry, & Power Co.     21,018 94     21,0	41	Manitoulin and North Shore		2,000 00	19,171 19	21,399 98	1,696 73
now Manitoba Great Northern     32,659 73     33,686 54     324 22       45 Montreal and Atlantic.     611 73     377,384 55     389,997 73     389,997 73       46 Montreal and Province Line     165 00     30,498 33     31,304 02     381 36       47 Montreal, Vermont Junction     35,298 23     37,119 32     1,081 72       48 Morrissey, Fernie and Michel     33,493 29     35,413 29     2,068 13       49 Montreal and Buctouche     8,519 17     8,519 17     1,800 00       50 Napierville Junction     20,481 67     20,708 56     507 26       51 Neison and Fort Sheppard     34,849 49     36,967 94     574 24	43	Massawippi Valley				27,018 94	
46 Montreal and Province Line     165 00     30,498 33     31,304 02     381 36       47 Montreal, Vermont Junction     35,298 23     37,119 32     1,081 72       48 Morrissey, Fernie and Michel     33,493 29     35,413 29     2,068 13       49 Montreal and Buctouche     8,519 17     8,519 17     1,800 00       50 Napierville Junction     20,481 67     20,708 56     507 26       51 Neison and Fort Sheupard     34,849 49     36,967 94     574 24		now Manitoba Great Northern	044 =0	,			324 22
47 Montreal, Vermont Junction     35,298 23     37,119 32     1,081 72       48 Morrissey, Fernie and Michel     33,493 29     35,413 29     2,068 13       49 Montreal and Buctouche     8,519 17     8,519 17     1,800 00       50 Napierville Junction     20,481 67     20,708 56     507 26       51 Nelson and Fort Sheppard     34,849 49     36,967 94     574 24	45	Montreal and Atlantic	E11 73 165 00			389,997 73 31.304 02	381 36
49 Montreal and Buctouche.     8,519 17     8,519 17     1,800 00       50 Napierville Junction.     20,481 67     20,708 56      507 26       51 Nelson and Fort Sheppard     34,849 49     36,967 94     574 24	47	Montreal, Vermont Junction			35,298 23	37,119 32	1,081 72
50 Napierville Junction. 20,481 67 20,708 56 507 26 51 Nelson and Fort Sheppard 34 849 49 36,967 94 574 24	48	Morrissey, Fernie and Michel Montreal and Buctouche.					
52 New Brunswick Coal and Rv. Co. 34,849 49 30,907 94 574 21 52 New Brunswick Coal and Rv. Co. 22 144 32 32 144 32 2. 337 41	-50	Napierville Junction	1		20,481 67	20,708 56	507 26
DESCRIPTION OF THE CONTRACT OF THE PROPERTY OF	52	New Brunswick Coal and Rv. Co.			34,849 49 32,144 32	36,967 94 32,144 32	2,337 41

for the Year ending June 30, 1910—Continued.

140	141	142	143	144	145	146	

#### GENERAL EXPENSES.

Salaries and Expenses of Clerks and Attendants.	General Office Supplies and Expenses.	Law Expenses.	Insurance.	Relief Department Expenses.	Pensions.	Stationery and Printing.	Number.
\$ ets.	\$ ets.	\$ ets	\$ cts.	\$ cts.	\$ ets.	\$ cts.	
4,579 20 2,778 01 1,554 65 720 12 22 37	2,326 02 653 48 463 88 518 09	517 50 1,454 57 2,622 71 316 31 40 00	3,567 61 435 10 223 83 2,663 13 138 32	415 27	2,352 21	270 93 50 50 31 60	5 2 3 4 5 5
1,026 21 3,486 24	70 90 1,843 37	760 48 605 73	1,156 64 1,432 65				
435 00 56,179 33		625 00 30,570 49	178 50 2,756 44		3,619 83	54 15 7,149 66	
85,495 17 5,723 86 113,529 19 9,646 25 10,037 11 459,612 19	21,371 17 1,460 44 1,812 33 74,617 39 55 93 105 00 15 00	73 35 45,138 23 2,579 33 5,856 96 270,743 42 	101,088 68 8,452 57 11,548 73 307,280 00 313 62 191 75	8,349 98 6,273 29	62,859 50	12,912 42 1,136 43 15,734 65 661 60 1,179 23 86,844 09 81 78 101 00	3 13 5 14 0 15 3 16 0 17 8 18 0 19 0 20
1,285 68 1,897 99	1,277 71 106 45		1 005 70			150 00	23
8,410 58 624 06 226,581 07 19,055 30 8,293 57 1,260 66 3,086 70 1,414 10 366 43 390 00 28 19 1,116 69 1,641 25	867 01 99 08: 605 80 49 80 24 68 10 00 58 88; 58 25 728 99	78,862 02 6,465 79 593 34 454 77	101,555 94 18,728 60 2,715 43 811 20 959 94 25 94 274 37 120 00	11,869-87	105,312 22 978 93 29 53	28,236 06 1,729 03 643 94 166 62 416 33 88 35 13 33 50 00 4 50 95 30 165 00	24 25 26 27 28 29 30 31 32 33 34 35 36 37
1,232 85 2,302 76 1,414 02 51 75 1,731 65	71 77 61 84 143 15 771 45	514 78	616 00 764 79 522 08 460 72	190 12		76 92 193 15 240 59 252 28	38 39 40 41 42 43
766 61 18,604 02 832 03 2,046 94 1,750 25	284 47		1,110 11 3,776 56 207 03 517 52 294 51	1,369 90		72 52 111 47 278 84 411 35 198 29 101 57	44 45 46 47 48 49 50
889 27 1,140 00	56 05	1,364 11	404 42			83 25 274 78	

1 GEORGE V., A. 1911
TABLE S.—SUMMARY of Operating Expenses for

	133	134	135	136	138	139
		Tran	SPORTATION I	Expenses—Con	tinued.	
Number.	Name of Railway.	Operating Joint Tracks. Dr.	Operating Joint Tracks.	Total Movement Expenses.	Total Transporta- tion Expenses.	Salaries and Expenses of General Officers.
		\$ cts.	\$ ets.	\$ cts.	\$ ets.	\$ cts.
544 555 566 577 588 599 600 616 626 636 646 656 667 688	New Westminster Southern	1,250 86 23,827 39	2,424 20	10,227 62 27,314 14 8,873 69 1,920 27 5,765 78 14,623 68 71,414 07 772,969 91 5,501 61 359,034 48 251,972 36 24,587 57 115,040 04 21,358 17 5,376 27 14,134 24 3,484 84	74,381 38 794,046 85 5,759 00 3661,992 19 264,996 91 25,596 96 117,697 51 21,902 10 5,566 61 14,134 42	15,771 95 6,683 50 1,117 32 4,842 00 194 53 179 74 1,514 20
71 72 73	Stanstead, Shefford & Chambly. St. Clair Tunnel. St. Lawrence and Adirondack. St. Martins	127 79 36.324 99		42,130 43 48,097 14 178,545 63 7,019 21	43,046 00 54,565 30 179,372 41	387 56 1,116 82
76 76 77 78 79 80	Sydney and Louisburg Spokane and British Columbia Temiscouata Temiskaming & Northern Ontario Thousand Islands Toronto, Hamilton and Buffalo	532 90	298 50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	131,230 29 1,172 10 71,928 79 580,596 00 18,831 67 340,049 01	256 29 5,839 55 16,727 56 2,798 25 10,126 63
81 82 83 84 85	Vancouver, Victoria and Eastern Victoria Terminal Ry. and Ferry Co. Victoria and Sidney, B.C. Wabash in Canada Wellington Colliery Co. York and Carleton	98,070 14	141 43	1,052 33 14,043 47	1,080 89 14,426 87 938,059 85 17,347 71	9,995 42
	Final total	256,064 51	167,602 48	56,803,322 81	58,928,170 74	754,158 00

		-,						-
	140	141	142	143	141	145	146	
			Gen	ERAL EXPENS	es.			
of	Salaries and Expenses Clerks and ttendants.	General Office Supplies and Expenses.	Law Expenses.	Insurance.	Relief Department Expenses.	Pensions.	Stationery and Printing.	Number.
	\$ ets.	\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	
	250 00 882 83 280 08	50 00 322 12 11 94 64 96	75 50 498 32	180 53	 		35 05	$\frac{54}{55}$
	2,165 64 26,598 09 600 00	161 64 362 32 1,523 96 10 00	1,580 41 5,464 50				28 78 263 34 2,050 41	60
	184 15 7,915 30 8,400 43 1,629 91 6,731 09 335 28 158 82	1,893 74 2,190 72 331 30 1,296 85 21 85 23 69 1 00	99 41 342 20 1,850 71 119 96 47 14 1,120 71 62 56	$\begin{array}{c} 7,200 \ 00 \\ 4,313 \ 65 \\ 1,178 \ 71 \\ 1,948 \ 00 \\ 220 \ 48 \\ \end{array}$		5,786 56	1,207 96 699 95 121 59 607 42 31 61 25 38 48 60	63 64 65 66 67 68 69
	\$24 25 3,625 97 300 00	50 72 61 21 593 65	263 88 941 89	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		13 10	111 80 422 08 132 30	$71 \\ 72 \\ 73 \\ 74$
	3,856 44 23 38 636 65 20,584 38 301 85 8,207 11 4,796 76	110 54 909 82 5,319 71 39 19 841 35 298 76	268 35 5,024 20 157 10 2,735 77 3,638 80	$\begin{array}{c} 237\ 90 \\ 1,699\ 41 \\ 19,160\ 76 \\ 232\ 08 \\ 1,940\ 00 \\ 5,649\ 12 \end{array}$			389 53 2,317 97	76 77 78 79 80
	147 72 1,540 53 33,117 01	19 32 174 63 6,046 91	185 20 469 65 14,067 14		 		47 69 646 89	82 83 84
• • • •				35 00			15 00	
1	,197,850 70	193,026 52	511,659 98	654,633 93	28,558 43	181,255 41	177,661 48	

1 GEORGE V., A. 1911
TABLE 8.—Summary of Operating Expenses

	147	148	149	150	151
		GE	NERAL EXPEN	ses—Continu	ted.
Number.	Name of Railway.	Other Expenses.	Total of Foregoing Accounts.	General Administra- tion, Joint Tracks Yards and Terminals. Dr.	General Administration, Joint Tracks, Yards and Terminals. Cr.
		\$ cts.	\$ cts.	\$ ets.	S ets.
2 3 4. 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Algoma Central and Hudson Bay Atlantic and Lake Superior Atlantic, Quebec and Western Bay of Quinté Bedlington and Nelson Bessemer and Barry's Bay. Brandon, Saskatchewan and Hudson Bay. British Yukon Brockville, Westport aud Northwestern Canadian Government Railways—Intercolonial.  " " P. E. Island. Canadian Northern.  " " Quebec Canadian Pacific. Cape Breton. Caraquet Carillou and Grenville. Central Ontario. Crowsnest Southern. Cumberland Railway and Coal Co. Dominion Atlantic.	1,178 03 1,949 20 1,590 04 114 10 17 69 99 71 118 58 31 88 277 50 876 17 5,057 37 228 17 27,747 38 270 09 2,908 13 200,137 39 103 97 304 00 10 21	$\begin{array}{c} 11,357\ 88\\ 546\ 72\\ 264\ 71\\ 3,732\ 86\\ 11,483\ 74\\ 6,645\ 43\\ 137,178\ 56\\ 206,718\ 24\\ 15,415\ 85\\ 362,671\ 75\\ 27,101\ 62\\ 37,501\ 62\\ 37,501\ 62\\ 4,463\ 70\\ 2,402\ 28\\ 4,463\ 70\\ 4,221\\ 7,911\ 44\\ \end{array}$	320 60	
25 26 27	Elgin and Havelock Eastern British Columbia	31 20 24,408 80	$\begin{array}{c} 1,017 & 01 \\ 784,818 & 26 \end{array}$	2,080 61	15,064 56
28 29 30 31	" " —Cauada Atlantic.  Halifax and Southwestern.  Hereford.  Inverness Railway and Coal Co.	575 79 186 98 108 13 216 25	19,130 16 3,608 62		
32 33 34 35	Irondale, Bancroft and Ottawa Ka-lo and Slocan Kent Northern Kettle River Valley.	5 10 10 03 20 00 100 32	3,623 29 698 50 1,790 00 676 14		
36 37 38 39	Kingston and Pembroke. Klondike Mines. Liverpool and Milton Lotbinière and Megantic.	$\begin{array}{r} 1,809\ 76 \\ 787\ 98 \\ 161\ 09 \\ 3,907\ 01 \\ \end{array}$	$ \begin{array}{r} 10,767 \ 72 \\ 595 \ 64 \\ 9,773 \ 02 \end{array} $		
40 41 42 43	London and Port Stanley Manitoulin and North Shore. Maritime Coal, Railway and Power Co. Massawippi Valley. Midland Railway Co. of Mauitoba (now Mani-	226 26 1,609 39 57 48	2,741 51		
45 46 47 48 49	toba Great Northern).  Montreal and Atlantic  Montreal and Province I ine.  Montreal and Vermont Junction.  Morrissey, Fernie and Michel.  Moncton and Buctouche.	304 00 25 21 63 14 484 09	26,479 82 1,903 34 4,313 26 6,378 23	96 87	
50 51 52 53 54	Napierville Junction. Nelson and Fort Sheppard. New Brunswick Coal and Coke Co. New Brunswick and Prince Edward Island. New Brunswick Southérn.	208 84 107 14 5,756 93	1,655 98 3,478 48 9,610 36		

SESSIONAL PAPER No. 20b

153	154	155	156	157	158	160	
		R:	ECAPITULATION	v of Expenses			
Total General Expenses.	Maintenance of Way and Structures.	Maintenance of Equipment.	Traffic Expenses.	Transporta- tion Expenses.	General Expenses.	Total Operating Expenses.	Number.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	8 ets.	\$ ets.	
22,517 09 18,037 39 7,392 52 4,608 25 4,608 25 11,357 88 546 72 264 71 3,732 86 11,483 74 6,645 43 137,499 16 206,718 24 15,415 85 362,671 75 27,101 62 37,501 96 1,684,269 65 2,402 28 4,463 70 4,2 21 7,911 44 6,943 81	74,957 19 77,420 98 27,922 46 5,906 34 24,138 69 4,464 46 2,092 88 33,189 79 40,543 40 10,533 55 1,045,650 76 1,755,106 06 121,811 38 2,047,830 97 101,880 82 233,408 28 13,653,938 04 5,522 02 19,136 90 1,857 00 54,889 68 89,308 40 12,793 74 113,007 33 5,765 87 10,319 71 4,292,685 11 382,558 76 87,100 39 34,102 22 30,278 80 12,269 42 16,248 39 3,625 00 2,499 22 55,084 89 17,217 72 1,360 60 7,793 10 18,827 59 11,214 08 7,930 38 3,510 05	37,508 65 41,712 18 16,653 16 2,634 84 20,253 17 316 40 432 07 8,614 60 14,048 80 2,855 47 1,007,292 62 1,887,711 90 79,120 03 1,761,641 69 73,568 20 110,697 11 12,567,493 86 1,096 54 7,422 78 1,033 00 16,854 57 23,276 95 3,365 30 61,529 12 371 96 5,407 00 5,985,397 13 253,289 80 47,913 66 16,127 27 22,845 04 3,255 11 5,072 33 250 00 901 56 24,084 55 4,564 74 877 75 4,540 64 17,139 32 8,564 59 6,131 46 20,468 20	2,143 45 3,379 92 2,885 78 6,491 86 291 92 238,655 45 182,807 86 1,168 05 153,512 02	105,470 28 148 683 73 33,200 44 13,294 51 73,518 79 648 17 4,204 69 46,652 41 44,097 57 17,585 12 2,684,089 85 4,802,924 06 211,698 56 4,868,853 36 262,117 72 490,428 89 27,425,187 61 7,372 52 21,377 50 1,769 00 87,113 48 72,278 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 21,377 52 31,769 00 1,719 87 43,935 06 11,152 91 12,938 96 5,525 00 1,719 87 69,698 28 20,046 53 4,413 73 10,386 24 79,818 89 21,399 89 27,018 94 90,703 07	22,517 09 18,037 39 7,592 52 4,608 25 11,357 88 546 72 264 71 3,732 86 11,483 74 6,615 43 137,499 16 206,718 24 15,415 85 362,671 75 27,101 62 37,501 96 1,684,269 65 2,402 28 4,463 70 4,2 21 7,911 44 6,943 81 802 92 1,017 01 771,834 31 58,653 00 19,130 16 3,608 62 7,303 24 3,623 29 698 50 1,790 00 676 14 9,5745 22 10,767 72 595 64 9,773 02 4,604 75 7,326 05 2,741 51 4,346 96	240,453 21 287,997 73 85,168 52 26,443 94 132,688 45 5,975 75 6,994 37 95,075 44 116,665 37 37,911 49 5,113,187 84 8,815,268 12 429,213 87 9,194,509 79 477,224 26 87,289 52 57,767,540 42 16,818 36 53,240 21 16,818 36 53,240 21 16,818 36 53,240 21 16,818 36 53,240 21 16,818 36 53,240 21 16,818 36 53,240 22 16,818 36 53,240 22 17,761 01 29,020 00 22,535,496 06 1,667,433 46 34,5317 38 96,904 28 104,630 20 30,402 40 34,958 18 11,290 00 5,907 65 159,968 40 5,907 67 17,245 72 22,493 00 125,924 24 48,772 86 43,822 29 148,481 57	10 11 12 12 12 12 12 12 12 12 12 12 12 12
3,620 97 26,479 82 1,903 34 4,313 26 18,224 51 2,282 76 1,655 98 3,478 48 9,610 36 1,353 83 4,906 32	37,216 06 261,453 12 28,612 40 12,211 28 10,825 52 10,203 25 5,340 24 69,716 64 20,166 57 9,548 80 33,975 89	8,612 36 132,954 90 1,002 41 8×9 54 14,381 98 1,813 52 6,697 91 7,698 03	1,969 15 9,321 54 1,492 09 6,115 41 	33,686 54 889,997 73 31,304 02 37,119 32 35,413 29 8,519 17 20,708 56 36,967 94 32,144 32 10,327 62 27,365 02	3,620 97 26,479 82 1,903 34 4,313 26 18,224 51 2,282 76 1,655 98 3,478 48 9,610 36 1,353 83 4,906 32	85,105 08 820,207 11 64,314 26 60,648 81 78,845 30 22,818 70 34,821 38 120,203 21 77,841 00 26,120 58 76,738 60	44 45 46 47 48 49 50 51 52 53

1 GEORGE V., A. 1911
TABEL 8.—Summary of Operating Expenses

	147	148	149	150	151
			GENER.	al Expenses	-Continued.
Number.	Name of Railway.	Other Expenses.	Total of Foregoing Accounts.	General Administra- tion Joint Tracks, Yards, and Terminals. Dr.	General Administra- tion Joint Tracks, Yards, and Terminals. Cr.
		s ets.	8 ets.	s ets.	\$ cts.
59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	New Westminster Southern. North Shore Railway Co. Nova Scotia Steel and Coal Co. Orford Mountain. Ottawa and New York Père Marquette. Phillipsburg Railway and Quarry Co. Princeton Branch of Washington Co. Quebec Central. Quebec and Lake St. John. Quebec Railway Light and Power Co. Quebec, Montreal and Southern. Red Mountain. Rutland and Noyan. Salisbury and Albert. Schomberg and Anrora. Stanstead, Shefford and Chambly. St. Clair Tunnel. St. Lawrence and Adirondack. St. Martins. Sydney and Louisburg. Spokane and British Columbia. Temiscouata Temiskaming and Northern Ontario. Thousand Islands. Foronto, Hamilton and Buffalo Vancouver, Victoria and Eastern Victoria, Terminal Railway and Ferry Co. Victoria and Sidney, B.C. Wabash in Canada. Wellington Colliery Co. York and Carleton.	72 50 212 85 12,214 15 9 91 4,375 02 500 16 21 27 154 64 504 90 1 00 628 34	2,532 57 6,790 49 50,885 18 3,110 00 367 44 68,914 26 32,455 26 10,061 04 15,760 76 1,969 63 459 31 1,670 47 348 27 1,875 31 7,095 86 1,083 40 16,070 59 639 27 11,118 33 69,634 74 3,549 65 24,554 53 17,862 99 400 93	540 00	104 42
		360,756 97	4,059,561 42	28,911 90	15,285 32

-							
153	154	155	156	157	158	160	
		Ri	CAPITULATION	N OF EXPENSES			
Total General Expenses.	Maintenance of Way and Structures.	Maintenance of Equipment.	Traffic Expenses.	Tcansportation Expenses.	General Expenses,	Total Operating Expenses.	Number.
\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ ets.	\$ cts.	s ets.	
1,222 22 64 96	12,438 92 949 65 3,692 85 13,415 66 45,867 98 273,589 68 273,589 68 273,589 68 18,416 66 118,416 66 118,416 66 118,416 67 118,377 27 22,368 94 42,051 04 68,516 48 61,50 32 58,885 74 2,508 26 51,936 41 337,001 74 5,270 91 122,993 04 265,739 38 7,236 59 202,768 10 9,893 01 1,455 00	2,925 46 120 60 1,037 86 3,068 29 17,151 45 322,842 63 	228 46 6,456 54 59,219 83 172 84 24,154 62 12,512 53 1,401 38 4,489 97 498 28 381 12 55 99 2,101 95 4,949 97 395 06 66 67 3,358 73 14,231 45 354 44 14,490 44 12,744 54 69 62 930 38 88,056 06	9,242 02 2,220 27 5,765 78 14,623 68 74,381 38 794,046 85	1,222 22 64 96 2,532 57 6,798 23 50,885 18 3,110 00 367 44 68,914 26 32,455 26 10,061 04 15,760 76 1,969 63 459 31 1,670 47 348 27 1,875 31 3,197 11 7,095 86 1,083 40 16,076 59 639 27 14,638 33 69,634 74 3,549 65 24,554 53 17,862 99 400 93 2,832 70 89,445 31	26,332 45 3,355 48 10,496 49 33,868 66 150,655 58 1,500,554 17 3,110 00 10,767 19 759,555 75 546,917 09 48,299 43 255,304 31 42,730 11 9,418 58 34,544 09 12,964 33 71,966 48 113,199 79 293,986 66 15,673 06 293,806 36 5,162 39 168,877 02 1,142,210 16 30,910 76 588,572 49 665,085 92 2,226 42 27,267 22 1,792,579 29 63,488 26 63,498 26 63,498 26 63,498 26	556575859606165668667707127374475576677889818828838485586
4,073,188 00	27,035,603 46	26,002,301 30	4,366,176 92	58,928,170 74	4,073,188 00	120,405,440 42	

1 GEORGE V., A. 1911

Table 9.—Summary of Passengers and Tons Carried, Earnings, Expenses, Train Mileage and Mileage Operated for the Year ending June 30, 1910.

	other ngs.	ets.	92 86 27 99			:						32 59 05 19		21 81		7,652 77		6 679 94		61 17	75 173 173 173 173 173 173 173 173 173 173	3 33 3 33	40 75 40 75	06 56 31 30	or 10
В	Total other Earnings.	60	21,292	884,4	5,854	:		4,213	32,081	966,996	1.095.861	17,832	1,516,009			7,6	1,3	G	100	-	326,2	7,7	1.1	1,306	
t-	Total Passenger Earnings.	s cts.	11,202 78 20,605 18	33,626 78	10,088 31	160 81		32,199 80				151,944 29			18,309 S4			16,207 12						22,487 59	
			===		- <del></del>		. 86 E	~ #6	2,63	8,5 8,5 8,5	2.63	15	27,55		~	36	÷1	100			10,77	3	- F	91,	
9	assenger nne.	s cts.	99,050 12 26,597 03				,558 04	,619 56 ,169 78	1,844 54	,156 87 ,005 17		160 86	, <del>1</del> 33 83 82 82 82 82 82 82 82 82 82 82 82 82 82	1,741 55	15,417 24	506 72				3,842 10				21,096 42	
	Total Passenger Revenue.	9.	88		ೌಣ		29,558	27	2,114	2,633	2.320,520	138,160	25,428	7	<u> </u>	7.2	21	25	7+0	- 60	9,034	560	14	23.	
5	Mileage of Revenue ixed Trains.	Miles.	44,880	93,900	158,428	1,421	2006	22,620 27,880	132,817	379,237	198 988 198 988	133,051	70,682	19,468	43,241	45,072	:	36, 132	18,540	7,584	522, 467	136,610	91,412	42.660	31,814
	Mileage of Revenue Mixed Trains	Mi					:			***							:		_		-				_
-1-	Mileage of Revenue Passenger Trains.	Miles.	44,750 1,453	:			43,970	28,956	1,674,207	596,804	192,500	198,071	267,003			104,440	46,104		100),COG		,679,627	602,554	23,027 23,720 20,021		
	Mile Rev Pass Tr	M		:		:	:		•••	ວໂ			: 16.	:	:	:		:		:	1-			:	
62	assengers Carried One Mile.	No.	3,641,180	1,363,498	1,483,422	3,033	125,777	1.851.630	298, 437	156,861,219	106 917 494	6,280,602	13,808,889 341,255,609	166,660	576,216	3,431,460	558,711	457,019	10,317,032	71,128	511,285,206	901,491	7,227,160	817,082	T08,807
	Passenger Carried One Mile	Z	ත්	1,			 	_	<b>.</b>	156,	106,	် မာ် ရ	1.341			ಣ		*	é T		511,	17,	Ţ.		
24	ngers ied.	·	$\begin{array}{c c} 87,619 & 16,206 & 1\end{array}$	25,836	12,546 93,071	138	35,850	11,015	1,164,119	76,154	968 996	136,275	050,924	7,339	15,632	17,588	22,528	28,102	5, 0,843	6,309	75,609	44.323	77,644	34,597	11,392
	Passengers Carried.	No.							1,1	, x, 1, c	9 6	; ·	11.0						×:		10,4		_		
			•															:					:		
			Co.			:	ludson Bay	weetern	Tancara.	lonial	ısland							Ço				:	:		
	Name of Railway		igation dson Ba	rior	estern	:	and Hu	A Korth		Interco		ıtario.			:					c		tlantic	rn	Zoal Co	Ottawa,
	ame of		and Irr	e Super	and w	Velson.	chewan	nourt an	1	ment-		ern, Ont	ern, Que			nville	eri.	lway an	tic	ock.		anada A	thweste	y and	oft and
- Opposite the state of the sta	74		Railway	and Lal	Luebec	on and	Saskat	ukon	outher	Gover	Nowth	North	North Pacific	ton		and Gre Intario	it South	and Rai	n Atlan	British (	runk.	runk, C	and Sou	s Railw	, bancr
			Alberta Railway and Irrigation Co. Algona Central and Hudson Bay	Atlantic and Lake Superior	Atlantic, Quebec and Western. Bay of Quinte	Bedlington and Nelson	Besselner and Darry's Day.  Brandon, Saskatchewan and Hudson Ba	Sritish Y	Canada Southern	Canadian Government—Intercolonial	Canadian Northam	Canadian Northern, Ontario	Canadian Northern, Quebec Canadian Pacific	Cape Breton	Caraquet.	Carillon and Grenville Central Ontario	Crowsnest Southern.	Cumberland Railway and Coal	Dominion Atlantic	Eastern British Columbia	Grand Trunk.	Grand Trunk, Canada Atlantic	Halifax and Southwestern Hereford	Inverness Railway and Coal Co	Irondale, Bancroft and Ottawa
	Number,		- 31 - 44		+ 70			9 C		_		123		_		_							_		35

	2,708 55 76,700 35 2,886 97 5,253 00 5,261 09
	76,646 39 63,657 98 11,913 83 290,014 80 196,433 96
\$25.50	636,613 61 8388 46 271,645 55 179,809 37 20,370 06
16, 903 16, 903 16, 903 17, 503 18, 136 19,	33,312 (6,755 15,834
30,382 30,382 254 80,984 5,480 11,240 37,157 11,240 37,157 11,240 37,157 11,327 12,327	75,248 355,446 282,623 134,282 6,822
1, 96, 128 1, 96, 129 1, 96, 129 1, 96, 129 1, 96, 129 1, 10,	2,755,791 25,609,325 183,858 13,970,010 6,023,850 880,576
	28, 087 771, 220 30, 643 480, 909 213, 554 67, 498
Kaslo and Slocan	77 Temisconata 78 Temiskaming and Northern Ontario 79 Thousand Islands. 80 Poronto, Hamilton and Buffalo 81 Vancouver, Victoria and Eastern 82 Victoria and Sidney, B.C.

Table 9.—Summary of Passengers and Tons Carried, Earnings, Expenses, Train Mileage, and Mileage Operated, for the Year ending June 30, 1910—Continued.

2	Fotal other Earnings.	S. cts.	5,589 72	3,502,394 50
t-	Total Passenger Karnings,	· s cts.	2,034 32 667,447 54 3,245 65 2,419 70	52,956,218 51
9	Total Passenger Revenue.	& cts.	2,002 74 630,216 04 2,976 65 2,159 00	46,018,879 56
kG.	Mileage of Revenue Mixed Trains.	Miles.	1,010	6,441,440
77	Mileage of Revenuc Passenger Trains.	Miles.	713,586	35,022,541
ಣ	Passengers Carried one mile	No.	64,534 36,562,834 55,738 38,200	2,466,729,664
οı	Passengers Carried.	No.	56,609 574,785 5,185 6,950	35,804,575
1	Name of Railway.		<ul> <li>83 Victoria Terminal and Ferry Co.</li> <li>84 Wabash Railway Co. (in Canada).</li> <li>85 Wellington Colliery Co.</li> <li>86 York and Carleton.</li> </ul>	Total
	Zumber.		88 88 85 4 86	

SESSIONAL PAPER No. 20b Table 9.—Summary of Passengers and Tons Carried, Earnings, Expenses, Train Mileage and Mileage Operated for the Year ending June 30, 1910—Continued.

1	15	Mileage Operated on June 30	Miles.		89.37				:	: :	90 12		149.73	32, 90	28.00			
	17	Total Operating Expenses.	S. cts.	240,453 21 287,997 73 85,168 59	26,443 94 132,688 45	5,975 75 6,994 35	95,075 44 116,665 37	37,911 49 5,113,187 84		9,194,509 79 477,224 26 267,950 89	57,767,540 42					23, 535, 496 06	1,66,433 46	96,904,28
	16	Total Gross Earnings.	\$ cts.	377, 452-28 396,079-75 85-991-00				59,863 65 \$,833,944 02	515,554 318,031	13,833,061 63 510,989 72				48,937 08			2,055,805 94 412,013 85	66,802 07 192,602 88
	15	Total Revenue Train Mileage.	Miles.	129,116 53,424 93,900	17,044	1,452	68,976 58,288	57,330	6,781,677	5,814,446	38,397,562	43,241	199,378	36,132	18,720	17,250,320	1,412,947	75,066 105,707
	14	Total Freight Earnings.	s cts.	244,956 64 234,546 58 47 806 07	10,887 12	1,050 07 3,710 59	41,990 75 246,507 73	27,653 S5 6,167,553 49		10,105,206 93 341,212 84	59,243,881 59		209,761 16	32,729 96	9,805 92			47,055 66 168,808 751
	13	Total Freight Revenue.	S cts.	244,531 64 114,720 54 47,806 07				27,653 85 6,117,596 94	6,120,691 51	9,955,2%9 93	58,904,060 20		209,761 16	22,729 32,729 36,000 36	9,805 92		373 066	47,054 16 168,592 10
	15	Mileage of Revenue Freight Trains.	Miles.	39,486 15,726		31	25,096 $1,112$	370	3,805,646	3,370,992	20,574,576		49,866	63,274	65,166	9,044,555	673,680 28,414	24,125 63,047
	11	Mileage of Revenue Mixed Trains.	Miles.	44,880 36,245 93,900	17,044	1,421	55,620	27,880 132,817	379,227		1,672,983		45,072	: '	18,720	7,584	136,610 227,537	21,415
	10	Tons Carried One Mile.	Number.	8,727,325 6,341,160 1,199,084	5.807,252	19,741	2,881,863	673,680 1,084,838,260	1,106,777,165	1,356,351,140	7,569,824,332	28,032 1,179,810	9,941,384	10,906,894	17,112,850	1,306,063 2,972,874,528	216,811,025 10,701,093	$\frac{4,505,633}{16,202,735}$
	6	Tons Carried.	Number.	178,090 277,946 31,169	14,974	6,600	66,623 23,744	22,456 6,752,247	3,981,054	3,809,856	20,551,368	26,218	273,143	92,764	13,531	16	1,534,984	165,22× 290,658
	∞	Name of Railway.		Alberta Ry. and Irrigation Co. AlgomaCentral and HudsonBay	Atlantic, Quebec and Western.	6 Bedlington and Nelson.	8 Brandon, Sask., & Hudson Bay 9 British Yukon	O Brockville, Westport and Northwestern Canada Southern	Canadian Government— Intercolonial. P. E. Island	14 Canadian Northern. 15 Canadian Northern, Ontario	17 Canadian Pacific	19 Caraquet	21 Central Ontario.	Cumberland Ky, and Coal Co		Eastern British Columbia	28 Grand Trunk, Canada Atlantic 29 Halifax and Southwestern	30 Hereford 31 Inverness Ry. and Coul Co
1		Number.		F 61 m	<del>ज</del> ारत	91-	တတ	2 =	13	1122	172	19	និន្ន	3, 23	420	27.6	20 00	30

Table 9.—Summary of Passengers and Tons Carried, Earnings, Expenses, Train Mileage and Mileage Operated for the Year ending June 30, 1910—Concluded.

																	1 (	ЭE	0	RO	àΕ	٧	., /	۹.	1911
19	Mileage Operated on June 30	Miles.		:	109.80	90.9								10.85	:				:	:	:			:	5 10
21	Total Operating Expenses.	& cts.	30,402 40		159,968 40																		1,500,584 17	3,110 00	10,767 19 759,555 75
16	Total Gross Earnings.	& cts.	27,990 53 17,991 (0																			152,150 69	_	5,492 97	22,467 29 1,104,682 84
15	Total Revenue Train Mileage.	Miles.	32,120 7,033	17,010	131,850	9,886	121,568	25,719	28,755	38,480	21,390	544,004	99,354	35,424	20,699	20,721	53,380	58,685	10,744	17,500	21,023	113.877	1,290,387	5,988	10,632
14	Total Freight Earnings.	& cts.	20,449 15 14,964 66	9,043 32	130,940 17	41,806 1X 10,179 64	83,995 21	76,432 10	58,017 46	128,667 77	18,430 43	712,832 21	39,835,96	99,841 15	57,234 88	42,055 48	21,046 63	20,939 80	24,922 00	3,203 21	9,000 00	76,462,25	2,295,157 55	5,492.97	15,038 00 729,873 54
13	Total Freight Revenue.	& cts.	20,449 15 14,964 66																					5,492 97	15,038 00
12	Mileage of Revenue Freight Trains.	Miles.			3,099		41,202	11,852	7,575	30,868		243,893	36,188		, y 797	13,444	27,530	6,577			:	37.278	1,008,897	5,988	562 62, 400
11	Mileage of Revenue Mixed Trains.	Miles.	31,814	16,902	97,884	9,785	15,500	13,613	21,180	0,768	21,390	163,166	In, (30	35,424	16,902	70.326	24,610	52,105	10,680	4,500	17,020	170 120	4,890	:	6,316 238,609
10	Tous Carried One Mile.	Number.	910,300	187,947	5,242,167	202,000	8,238,062	3,307,418	1,795,151	14,413,793	618,188	59,614,174	1,808,402	3,438,894	6,485,250	3,069,033	538,588	1,256,443	424,890	60,360	439 006	5.506,691	433,963,951	79,686	818,417 48,562,639
5.	Tons Carried.	Number.	29,107	6,961	106,983	14,961	186,302	412,486	199,300	493,719 109,436	29,255	1,110,564	94,915	573,149	228,879	67,637	36,300	20,562	40,644	\$ I.50	6,103	141,486	2,162,247	13,281	160,474
$\infty$	Name of Railway.		32 Irondale, Bancroft and Ottawa 33 Kaslo and Slocan.	Kent Northern	Kingston and Pembroke.	Klondike Mines.	39 London and Port Stanley.	Lotbiniere and Megantic Manitoulin and North Shore	Maritine Coal, Ry. & Power Co	Massawippi Valley.	Moneton and Buctouche	Montreal and Atlantic.	Montreal and Province Line	Morrissey, Fernie and Michel.	Napierville Junction Kailway.	Nelson and Fort Sheppard New Brinswick Coal and Ry Co	New Brunswick and P. E. Island	New Brunswick Southern	55 New Westminster Southern	North Shore	Nova Scotia Steel and Coal Co.	59 Ottawa and New York	60 Pere Marquette-in Canada	61 Phillipsburg Ry. & Quarry Co	

c	Ee	Q1	ON	ΔE	DΛ	DER	No	20b
-	E 33	OI.	UIV	AL	FA	PFR	INO.	200

SESSIC	NAL	PAPE	H N	0. 2	:0b:				
				:::			01016	VICEO C	
546,917 09 48,299 43 255,304 31 49,730 11	844 544 844 844 844 844 844 844 844 844	96.68	673	806 162	877	910	267 267 267	2,220 42 1,792,579 29 63,498 26 3,865 00	120,405,440 42
581,061 25 62,787 85 278,471 48 15,446 78	587 476	1885 1885 1885 1885 1885 1885 1885 1885	333	± ₹	353 365	361	932	4,220 73 2,399,685 27 73,498 26 5,868 00	173,956,217 13
391,104 31,429 217,937	6,732 38,366 21,843	90,546	18,020	196,715	161,316 752,370	,33,312 473,392	291,865 22,656	1,622,206 35,704 8,502	85,409,241
335,350 17 44,028 02 158,123 33	9212	86.5	69	133 157	707	090	237	2,163 53 1,726,648 01 70,252 61 3,448 30	117, 497, 604 03
333,912 55 43,058 22 156,460 99	166 471 597	1986	69	562 g	870 149	332 6	952	2, 163 53 1,717,099 59 70,252 61 3,448 30	116,229,894 06
20,053 20,096 7,082 8,480		28,158		160,020	15,398 366,909	188,850	87,071	907,776	43,742,668
41,107 6 143,980 6,559			18,020	1.144	70,670	33,312	69,755 15,834	1,010	6,447,440
22,615,614 1,147,060 12,230,497 15,986	579,500 1,638,000	1,379,299	330,746	41,203,162	5,903,922	207,078	32,800,719 495,843	39,047 324,598,514 4,069,520 46,756	15.712,127,701
260,134 111,317 273,046			18,715	,660, 15,				34,252 1,366,666 378,560 8,501	74,482,866
64 Quebec and Lake St. John 65 Quebec Ry., Lightand PowerCo. 66 Quebec, Montreal and Southern	68 Rutland and Noyan.	71 Stanstead, Sheffordand Chambly 72 St. Clair Tunnel Adjunded	74 St. Martins.	Coal Co).	77 Temisconata.	79 Thousand Islands.	81 Vancouver, Victoria and Eastern 82 Victoria & Sydney, B.C.	83 Victoria Terminal and Ferry Co. 84 Wabash Railway Co. (in Can.). 85 Wellington Colliery Co. 86 York and Carleton.	Final total

TABLE 10.—SUMMARY of Train Mileage for the Year ending June 30, 1910.

		1 GEORGE V., A. 1911
11	Milcage of Non-Revenue Trains.	Miles, 1,341
10	Total Revenue Train Mileage.	Miles. 129, 116 189, 116 189, 116 189, 116 189, 116 189, 1189 189,
<b>5</b> .	Special Train- Mileage.	Mbles, 90 2, 863 3, 671 103 2, 154 108 3, 677 108 3, 677 108 3, 677 108 4,885 1168
9	Mileage of Revenue Freight Trains.	99,486 15,726 3,735 3,736 1,888,435 3,805,646 14,938 106,183 1
æ	Mileage of Revenue Mixed Trains.	Miles. 44,880 8,829,245 11,228,880 11,228,881 11,28,881 11,28,881 11,28,881 11,28,881 11,28,881 11,2
67	Mileage of Revenue Passenger Trains.	Miles.  44,760 1,457 1,457 1,506 2,590 1,674,297 2,590 1,191,582 1912,582 192,582 194,440 46,104 46,104 305,061 83,382 83,382 64,881
	Name of Railway.	Alberta Railway and Irrigation Co.  Adamtic and Larke Superior.  Adamtic and Hudson Bay.  Adamtic and Harke Superior.  Adamtic of Quinte.  Bay of Quinte.  Bedington and Rarry's Bay  Brandon Saskatchewan and Hudson Bay.  British Yukon.  Canadian Northern.  Carallon and Grenville.  Caraquet.  Caraquet.  Caraquet.  Caraquet.  Caraquet.  Covernest Southern.  Caraquet.  Car

S	ESS	ION	IAL	PA	PE	R I	Vo.	20b
---	-----	-----	-----	----	----	-----	-----	-----

1,489		4,755 10.080		:			5,363	157,206	29,171	4,581,534
19,636 25,719 28,755 177,620 38,489	21,350 544,004 96,890 89,354	20,000 10	10,741 17,528 17,528 34,043	113,577 1,290,387 5,988 10,632	617,609 391,104 31,429	13,079 13,079 6,732 6,732 1,843 91,843	287,116 18,020 196,715 1,144	152,370 153,312 173,392 191,863	1,489 1,622,206 35,704 8,502	85,409,241
856	131	120	92	06 143 	103,321	06	105	30,015 1,919 757	<u>x</u>	202,592
11.852 7,575 90,868	243,893 25,645 36,188	3,797 18,444 27,530	?? ??	34,248 1,008,897 5,988 563	62, 400 158,053 20,096 7,089	6, 489 6, 489 28, 158	160,020	366,909 188,850 87,071	307,776 31,200	43,742,668
18,780 13,613 21,180 5,768 27,539	21,390 163,166 16,786 35,424	16,902 70,326 24,610	10,680 4,800 17,528 34,027	4,890	238,609 41,107 6 6	6,552 6,552 4,614 38,276 21.843 17,811	18,020	33,312 69,755 15,834	1,010	6,441,440
25.4 80,954 5,480	136,814 54,395 63,166	37,157	33	276,457	213,279 213,279 189,088 11,327 66,875	2,118	182,052 36,695	355,446 282,623 134,282 6,822	713,586	35,022,541
Lotbinière and Megantic. Manitoulin and North Shore. Maritume Coal, Railway and Power Co. Massawippi Valley. Manitoba Great Northern.	Moncton and Buctouche.  Moutreal and Atlantic.  Montreal and Province Line.  Montreal and Vermont Junction.	Napierville Junction Railway. Nelson and Fort Sheppard. New Brunswick Coal and Railway Co. New Brunswick and Prince Edward Island.	New Westminster Southern North Shore Nova Scotia Steel and Coal Co. Orford Mountain.	Ottawa and New York Pere Marquette (in Canada). Philipsburg Railway and Quarry Co. Princeton Branch of Washington County Railway	Ouebec Central. Quebec and Lake St. John. Quebec and Lake St. John. Ouebec Asilway, Light and Power Co. Ouebec Montreal and Southern	Red Mountain Red Mountain Rutland and Noyan Salisbury and Harvey Schomberg and Andred Chambly	St. Clair Tunnel. St. Lawrence and Adirondack. St. Lawrence and Adirondack. St. Martins Sydney and Louisburg (Dominion Coal Co.) Temiconate and British Columbia.	Temiskanning and Northern Ontario. Thousand Islands. Toronto, Hamilton and Buffalo. Vancouver, Victoria and Eastern.	Victoria Terminal and Ferry Co Wabash Railway Co. (in Canada) Welington Colliery Co. York and Carleton	Total.

1 GEORGE V., A. 1911
Table 11 - Summary of Freight Traffic Movement.

-	1.4	ABLE 11	- SUMMAR	of Fr	eight T	raffic Mo	vement
~	1	2	3	4	5	6	7
						PRODU	CTS OF
	-		GRAIN.			FLOUR.	
Number.	Name of Railway.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Ton- nage.	Tonnage Origi- nating on Road	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Ton- nage.
4 6	Atlantic and Lake Superior Atlantic, Quebec and Western Bay of Quinte Bedlington and Nelson	8,267 925 81 4 1,175	$\begin{array}{c} 42 \\ 128 \\ 703 \\ 327 \\ 640 \\ 25 \end{array}$	8,309 1,053 784 . 331 1,815 25	611 162 248 114 123	29 57 1,610 858 2,046	640 219 1,858 972 2,169
10 11 12 13	British Yukou. Brockville, Westport and Northwestern. Canada Southern. Canadian Government—Intercolonial P. E. Island	46,004 2,182 140 21,892 16,499 12,758	3,087 652,788 140,802	157,301 12,758	54 966 1,440 24,902 27,980 4,431	1,303 140,929 135,335	54 966 2,743 165,831 163,315 4,431
18 16 17 18 19 20	Cape Breton Caraquet Carillon and Grenville	1,047,172 5,437 1,121 2,546,892 80	712 16,885 396,657	1,079,122 6,149 18,006 2,943,549	58,898 888 982 595,473 4	3,018 462 15,318 153,508 283 2,060 2,297	61,916 1,350 16,300 748,981 287 2,060
22 23 23 23 24 25 26 27	Central Ontario Crowsnest Southern Cumberland Ry. and Coal Co. Dominion Atlantic Elgın and Havelock Eastern British Columbia Grand Trunk	1,952 130 290,288	3,458 648 756 1,919 50 92 1,400,263	3,871 180 92	186	2,257 20 867 660 37 243,442	2,313 106 867 846 37 470,614
29 30 31 33 33	Grand Trunk, Canada Atlantic	3,138 32 64	2,065 622 638 227 40	$\begin{bmatrix} 234,460 \\ 1,109 \\ 3,776 \\ 259 \end{bmatrix}$	33,686 3,369 439 175	93 5,205 347 2,787 203	33,779 8,574 786 2,962 203
38 30 37	Kent Northern Kettle River Valley Kingston and Pembroke Klondike Mines	31 6,035	4,353	31 10,388	2,029		4,402
39 40 41 41	Liverpool and Milton. London and Port Stanley. Lotbinière and Megantic. Manitoulin and North Shore. Maritime Coal, Railway aud Power Co. Massawippi Valley,	14,146 99 137 76 670	9,561 172 123 8,193	137 199		3,555 582 143 1,978	61
4: 4: 4: 4: 4: 4:	Manitoba Great Northern   Moncton and Buctouche   Montreal and Atlantic   Montreal and Province Line   Montreal and Vermont Junction	26,845 1,012 191 12	40,791 63,853 1,082 14,861	67,636 64,865 1,273	335 779 30	183 103,222 1,566	
50	Morrissey, Fernie and Michel.  Napierville Junction Railway.  Nelson and Fort Sheppard.	900	570 182		148	411 20	411 168

for the Year ending June 30, 1910.

8	9	10	11	12	13	14	15	16
AGRICUI	LTURE.			ę			6	
Отне	R MILL PROI	oucts,		HAY.			Товассо.	
Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.
1,359 21 2 46	16 47 35 40		1,187 1,317 726	195 60 495 44	786 495		12	14
			58	33	33 58			
$\begin{array}{c} 212 \\ 275 \\ 10.843 \\ 11,235 \end{array}$	$   \begin{array}{r}     360 \\     179,724 \\     22.543   \end{array} $	$\frac{190,567}{33,778}$	48 11,347 65,758	85,329 10,381	76,139	756	′	
1,536 24,393 703	3,180 677	1,536 27,573 1,380	3,213 $22,410$ $2,338$ $4,600$	2.042	3,213 24,452 2,968 24,08a	1,107	776	1,883
287,310	41,948	329,258	268,341 29 75	1,480	314,949 51 1,555		40	18,730
36 10	1,435 50 555	1,471 60 555		275	835			2
14,377 155 103,883	13,569 492 20 93,521	$\begin{array}{r} 27,946 \\ 647 \\ 20 \\ 197,404 \end{array}$	2,943 96 78,954	1,145 122 117,605	122 $196,559$		7,852 28	
58,516 3,033 122 71	2,056 543 40 32	$60,572 \\ 3,576 \\ 162 \\ 103$	37,272 2,041 583 59	1,409 1,297	37,272 3,450 583 1,356	6		
	263	263	45	171 24 450	171 69 450			
1,031	929	1,960	50 415		50 690	262	7	269
307	3,061 8	3,368 8 21	9,287 156 221	2,966 56	12,253 212 221	31 7	209	240 7
103 633 410	6,471 18	$\begin{array}{c} 222 \\ 7,104 \\ 428 \end{array}$	390 33 20	2,807	1,075 2,840 20	6	4	25 
1,795 80	73,147 705 6,278	$74,942 \\ 785 \\ 6,278$	31,381 4,137 416	17,069 1,850 2,896	48,450 5,987 3,312	15	890	905
97	25	25 97	3,341 851	489 47	3,830 898			• • • • • • • • • • • • • • • • • • • •

1 GEORGE V., A. 1911 Table 11.—Summary of Freight Traffic Movement

_							
	1	•)	3	4	ð	6	7
						PRODU	CTS OF
			GRAIN.			FLOUR.	
Number.	Name of Railway.	Tonnage originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Origi- nating on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Ton- nage.
53 54	New Brunswick Coal and Railway Co New Brunswick and Prince Edward Island New Brunswick Southern New Westminster Southern	317	467 805 65	467 805 382 1,512		612 1,114 25	1,114
57 58 59 60	North Shore Nova Scotia Steel and Coal Co. Orford Mountain. Ottawa and New York Père Marquette in Canada. Phillipsburg Railway and Quarry Co.	$\begin{bmatrix} 2\\13\\711\\78,010 \end{bmatrix}$	208 741 452 23,458 80	210 754 1,163 101,468 80	200 4,070		524 1,578
62 63 64 65 66	Princeton Br. of Washington County Ry. Quebec Central Quebec and Lake St. John. Quebec Railway, Light and Power Co Quebec, Montreal and Southern Red Mountain	732 1,952 4,126 1,173	10,543 3,858 3,051 1,110	732 10,543 5,810 7,177 2,283	1,912 302 46	204 4,433	5,738 506
68 69 70	Rutland and Noyan. Salisbury and Harvey. Schomberg and Aurora. Stanstead. Shefford and Chambly. St. Clair Tunuel.	79 2,396 23	981 400 27,840	40 981 479 2,396 27,863	25	960 774 3,934	925 774
74 75 76	St. Lawrence and Adirondack. St. Martins Sydney and Louisburg (Dom. Coal Co.) Spokane and British Columbia. Temiscouata	349 62 34	1,183 220 1,260 2,050	1,532 220 1,322 34		935 280 3,120 90	280 3,120 90
78 79 80 81	Temiscaming and Northern Ontario	6,189 8,907 6,455	3,942 208 5,979 105	2,439 $10,131$ $208$ $14,886$ $6,560$	4,030 147 1,640 1,626	1,575 2,049 807 4,133 290	6,079 954 5,773 1,916
83 84 85	Victoria and Sidney, B.C. Victoria Terminal and Ferry Co. Wabash Railway Co. (in Canada). Wellington Colliery Co. York and Carleton.	970	813 449 279	870 827 137,658 279	▶ 251	311 23 63	274 $24,671$
	Final total	4,545,761	2,889,812	7,435,573	1.027.534	889,400	1,916,934

for the Year ending June 30, 1910-Continued.

									_
8	9	10	11	12	13	14	15	16	

## AGRICULTURE-Continued.

Отне	R MILL PROI	OUCTS.	·	Нау,			Товассо.	
Tonnage Originating on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roods and other Carriers.	Total Freight Tonnage.
307	501	501 307 346	4,260 288	261 41				4
	220	$\frac{407}{220}$		14	14	.:		1
226 1,696	\$58 1,025 7,508	858 1,251 9,204	$\begin{array}{c} 10 \\ 2,558 \\ 51,216 \end{array}$	$\begin{array}{r} 428 \\ 1,085 \\ 7,275 \end{array}$	438 3,643 58,491	7 170	513	2 7 683
125		125			12 05			
532 122	$1,479 \\ 20$	2,011 142	660 244	3,328 75	3,988 319	6		
15 63	155	170 63	33,449 205 143		205			
			$1,\overline{214}$ $50$		1,214		13	13
953	10,187	10,203 2,659	l		97 169		191	101
	110			$\frac{70}{2.170}$	$\begin{array}{c} 70 \\ 2,170 \\ \end{array}$		2	2
507 495		800 681	453 881 2,939	134 10,995	1,015 $13,934$	11	37	48
48 1,237 1,198	1,850		$   \begin{array}{c}     13 \\     1,179 \\     8,452   \end{array} $	437	193 1,616 8,452		315	
1,669	1,855 100	1,855 1,769	849	833	833 849			
24,550	145	24,550 145		520	13,010			
557,120	480,162	1,037,282		397,816		16,724		

1 GEORGE V., A. 1911
TABLE 11.—SUMMARY of Freight Traffic Movement

Name of Railway.								
Name of Railway.		17	18	19	20	21	22	23
Name of Railway.   Tompage							PRODUC	CTS OF
Alberta Railway and Irrigation Co.				Cotton.		FRUIT AND VEGETABLES.		
2 Algoma Ceutral and Hudson Bay   272   85   357	Number.	Name of Railway.	Originat- ing on	Tonnage Received from Connecting Roads and Other Carriers.	Freight Ton-	Origi- nating on	Tonnage Received from Connecting Roads and Other Carriers.	Freight Ton-
10   10   10   10   10   10   10   10	- 2	Algoma Central and Hudson Bay				279		
10   10   10   10   10   10   10   10	4 5	Atlantic and Lake Superior		3	3	8		19
9 British Yukon	- 6	Bedlington and Nelson				15		15
11   Canada Southern.	8	Brandon, Saskatchewan and Hudson Bay British Yukou				1,467 $1,251$		1,251
20   Carillon and Grenville   21   Central Ontario   10,560   352   10,912   22   Crowsnest Southern   624   624   624   23   Cumberland Railway and Coal Co   1,359   275   1,634   88,090   202   88,292   25   Elgin and Havelock   40   40   26   Eastern British Columbia   1,619   12,797   14,416   139,666   95,237   234,843   27   Grand Trunk (Canada Atlantic)   10,026   5,926   15,952   833   5,851   6,864   29   Halifax and Southwestern   2,988   581   3,569   30   Hereford   4   181   6   187   31   Inverness Railway and Coal Co   26   151   177   32   Irondale, Bancroft and Ottawa   18   18   38   38   Kaslo and Slocan   38   Kettle River Valley   36   Kingston and Pembroke   10   403   413   254   95   349   38   Civerpool and Milton   228   228   11,224   3,042   14,266   40   Lottonière and Megantic   62   16   78   41   Manitoulin and North Shore   103   103   103   42   Maritime Coal, Railway and Power Co   103   103   103   43   Massawippi Valley   44   Manitoba Great Northern   271   271   271   45   Moncton and Buctouche   46   Montreal and Proviuce Line   48   Montreal and Proviuce Line   48   Montreal and Vermont Junction   60   147   207   49   Morrissey, Fernie and Milchel   40   40   40   40   40   40   40   4	10 11 12 13	Brockville, Westport and Northwestern Canada Southern Canadian Government—Intercolonial P. E. Island	2,661 45	16,304 1,198	16,304 3,859 45	26 14,297 21,799 4,051	63,066 15,017	77,363 36,816
20   Carillon and Grenville   21   Central Ontario   10,560   352   10,912   22   Crowsnest Southern   624   624   624   23   Cumberland Railway and Coal Co   24   Dominion Atlantic   1,359   275   1,634   88,090   202   88,292   25   Elgin and Havelock   40   40   26   Eastern British Columbia   1,619   12,797   14,416   139,666   95,237   234,843   27   Grand Trunk (Canada Atlantic)   10,026   5,926   15,952   833   5,851   6,684   29   Halifax and Southwestern   4   4   181   6   187   30   Hereford   4   4   181   6   187   31   Inverness Railway and Coal Co   26   151   177   32   Irondale, Bancroft and Ottawa   18   18   38   Kaslo and Slocan   38   Kent Northern   35   Kettle River Valley   36   Kingston and Pembroke   10   403   413   254   95   349   38   Candon and Port Stanley   228   228   11,224   3,042   14,266   40   40   40   40   40   40   40	14 15	Canadian Northern, Ontario				15,693 1,217	13,274 $202$	1,419
20   Carillon and Grenville   21   Central Ontario   10,560   352   10,912   22   Crowsnest Southern   624   624   624   23   Cumberland Railway and Coal Co   24   Dominion Atlantic   1,359   275   1,634   88,090   202   88,292   25   Elgin and Havelock   40   40   26   Eastern British Columbia   1,619   12,797   14,416   139,666   95,237   234,843   27   Grand Trunk (Canada Atlantic)   10,026   5,926   15,952   833   5,851   6,684   29   Halifax and Southwestern   4   4   181   6   187   30   Hereford   4   4   181   6   187   31   Inverness Railway and Coal Co   26   151   177   32   Irondale, Bancroft and Ottawa   18   18   38   Kaslo and Slocan   38   Kent Northern   35   Kettle River Valley   36   Kingston and Pembroke   10   403   413   254   95   349   38   Candon and Port Stanley   228   228   11,224   3,042   14,266   40   40   40   40   40   40   40	16 17	Canadian Northern, Quebec	1,195	13,746	14,941	386 195,089		
10,300   302   10,302   202   202   202   202   202   203	19 20	Caraquet				525	210	735
20   Bastern British Columbia   1,619   12,797   14,416   139,606   95,237   234,843   28   Grand Trunk (Canada Atlantic)   10,026   5,926   15,952   833   5,851   6,684   29   Halifax and Southwestern   4   181   6   187   181   181   6   187   181	211	Central Untario				10.560		
20   Bastern British Columbia   1,619   12,797   14,416   139,606   95,237   234,843   28   Grand Trunk (Canada Atlantic)   10,026   5,926   15,952   833   5,851   6,684   29   Halifax and Southwestern   4   181   6   187   181   181   6   187   181	23 24	Cumberland Railway and Coal Co  Dominion Atlantic.	1,359	275	1,634	88,090		
Mereford	26 27 28 29	Grand Trunk Grand Trunk (Canada Atlantic)	1,619 10,026	12,797 5,926	14,416 15,952	139,606 833 2.988	54 95,237 5,851 581	54 234,843 6,684 3,569
34 Kent Northern	30 31	Hereford Inverness Railway and Coal Co	4		4	181 26	6 151	187 177
36 Kingston and Pembroke       10       403       413       254       95       349         7 Klondike Mines.       38 Liverpool and Milton       228       228       11,224       3,042       14,266         40 Lotbinière and Megantic.       62       16       78         41 Manitoulin and North Shore.       103       103         42 Maritime Coal, Railway and Power Co.       103       103         43 Massawippi Valley.       271       271         44 Manitoba Great Northern.       271       271         45 Monotron and Buctouche.       27       294       5,884       6,178         46 Montreal and Atlantic.       7,769       7,769       294       5,884       6,178         48 Montreal and Vermont Junction.       60       147       207         49 Morrissey, Fernie and Michel       60       147       207	33	Kaslo and Slocan						
14,266	35 36	Kettle River Valley	10	403	413	254	95	349
39   London and Port Stanley.   228   228   11,224   3,042   14,266   46   Lotbinière and Megantic.   62   16   78   18   16   16   16   16   16   16   1	38.	Laverpool and Milton						
42 Maritime Coal, Railway and Power Co.       103       103         43 Massawippi Valley.       271       271         44 Manitoba Great Northern.       271       271         45 Moneton and Buctouche.       271       271         46 Montreal and Atlantic.       7,769       7,769       294       5,884       6,178         47 Montreal and Province Line.       60       147       207         48 Montreal and Vermont Junction.       60       147       207         49 Morrissey. Fernie and Michel       207	39 40	London and Port Stanley		228	228	11,224 62	3,042	14,266 78
44 Manitoba Great Northern       271       271         45 Moneton and Buctouche       271       271         46 Montreal and Atlantic       7,769       7,769       294       5,884       6,178         47 Montreal and Proviuce Line       207       60       147       207         48 Montreal and Vermont Junction       60       147       207         49 Morrissey, Fernie and Michel       207	42	Maritime Coal, Railway and Power Co			1		103	103
46 Montreal and Atlantic	44	Manitoba Great Northern						271
48 Montreal and Vermont Junction. 60 147 207 49 Morrissey, Fernie and Michel	46	Montreal and Atlantic		7,769			5,884	6,178
	48	Montreal and Vermont Junction					1	207
50 Napierville Junction Railway.       27       27       24       1,439       1,463         51 Nelson and Fort Sheppard.       498       20       518	50	Napierville Junction Railway		27		24	1,439	

SESSIONAL PAPER No. 20b

for the Year ending June 30, 1910-Continued.

24	25	26	27	28	29	30	31	32
AGRICU	JLTURE-C	ontinued.		PROI	oucts of	FANIMA	LS.	
OTHER PRO	DUCTS OF AG	RICULTURE.		Live Stock.		Dr	essed Mea	TS.
Tonnage Originat- ing on Road,	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage,	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.
67 2,074	6 105	73 2,179	5,633 693 20 143 3,094	755 150 187 3 27	6,388 843 207 146 3,121	105 118 54 1 244		205 130 57 65 252
20,212	87,893	108,105	147 2,297 2,122	74 222,055 5,755 3,688 245 447	147 2,297 2,196 244,548 21,184 3,611 41,126 4,666 2,058 392,133	2,939 3,192 2,300 3,005 185	103,199 15,218	75 72 1 106,138 1 18,410 1 2,300 1 3,637 1 197 1
7,988 144		7,988	$\begin{matrix} & & 1\\ & 35\\ & 6\\ & 4,265\\ & 68\\ & 10\\ & 1,993\\ \end{matrix}$	1 24	$\begin{array}{c} 2\\ 35\\ 30\\ 4,384\\ 128\\ 17 \end{array}$	78 14	7 20	$egin{array}{cccccccccccccccccccccccccccccccccccc$
297 25,447	165 24,546	49,993	86 274,296 8,813 382 462	64	96 14 442,594 12,079 446 462	34,878 89	57,639	$92,517$ $\begin{vmatrix} 2 \\ 2 \end{vmatrix}$
			405 241	13	418 241 100	17 25		24   30   3 30   3 3 25   3 3
20,265			4,520	429 475 10	2,485 4,995 10	523		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
528		794 3,921	693 671	$\begin{array}{c} 22\\ 856\\ 20 \end{array}$	691	30		15 4 41 4 32 4 196 4 30 4 109,399 4
***********	2,970	2,970	3,237 806 31	1,000				
25 2	0в—-81	25	808		931 55			12 5

1 GEORGE V., A. 1911 Table 11.—Summary of Freight Traffic

-								
	17	18	19	20	21	22	23	
						PRODUC	CTS OF	
			COTTON.		Fruit and Vegetables.			
ler.	Name of Railway.	Tonnage Originat- ing on Road.	Founage Received from Connecting Roads and Other Carriers.	Total Freight Ton- nage.	Tonnage Origin- ating on Road.	Tonnage Received from connecting Roads and Other Carriers.	Total Freight Ton- nage.	
Number.			Tourn fron Ros Can		Ttoad.	Tonnag from Road Carri		
52	New Brunswick Coal and Railway Co	<b>'</b>						
53 54 55	New Brunswick and Prince Edward Island New Brunswick Southern New Westminster Southern North Shore				176	2	178 1,436	
56 57	North Shore.  Nova Scotia Steel and Coal Co.  Orford Mountain.	11	8	· · · · · i9	i1	1	12	
58 59	Ortord Mountain Ottawa and New York	345	684	1.029	16 172	513	685	
61	Ottawa and New York. Pére Marquette—in Canada Phillipsburg Railway and Quarry Co Princeton Branch of Washington Co. Ry	1	360	500	87,678	13,198	1,326	
63	Quebec Central						1,422	
65 66 67	Quebec and Lake St. John	13	3,036 26	3,049 26	146 315 217	102 229	248 544 217	
69	Rutland aud Noyan							
70 71 70	Salisbury and Harvey Schomberg and Aurora Stanstead, Shefford and Chambly St. Clair Tunnel.	• • • • • • • • • • • • • • • • • • • •			182	388	396	
73 74	St. Lawrence and Adirondack St. Martins.	126	1,880	2,066	87	3,756	3,843	
75 76	Spokane and British Columbia				10 160	212	222 160	
77 78	Temiscouata Temiskaming and Northern Outario	1	4	5	3,386 1,709	5,880	3,511 7,589	
81 81	Thousand Islands Thousand Islands Vancouver, Victoria and Eastern Victoria and Sidney, B. C.	240	<del></del>	761 240	455	4,400	10,756 4,361 693	
83	Victoria Terminal and Ferry Co. Wabash Railway Co. (in Canada). Wellington Colliery Co. York and Carleton.				27,263	713 1 96	730 27,263 96	
80						974.900	000 100	
	Totals	19,292	65,636	84,928	650.760	318, 362	969,122	

SESSIONAL PAPER No. 20b

Movement for the Year ending June 30, 1910—Continued.

24	25	26	27	28	29	30	31	32
AGRICUI	LTURE—Co.	ntinued.		PRODUCT	S OF AN	IMALS	Continued,	
OTHER PRO	ODUCTS OF AG	RICULTURE.		Live Stock.		DE	ESSED MEA	Ts.
Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road	Tounage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.
			176 175 487		176 175 487	73		73
492 23 85,982	168 4,430	90,412	341 1,508 24,931	37		1	6 32	6
	414	171	749 433	2,250 151	5,751 2,999 584	98	198	198
60		60	1,203 11 76 148 797	12	1,535			
53	5,732 2,932	5,732 2,985	55 689		1,678	19	274	293
120	300	420	61		471	40	3,220	3,260
201		1,035	304 3,995 823	178 3,294 20	482 7,289 843			291
1,233	3,721 87 23	$\begin{array}{r} 4,675 \\ 1,233 \\ 87 \\ 40 \\ 5,966 \end{array}$	3,388 3,091 97 49 35,289	5,411 107 162	8,799 3,091 204 211 35,289	5 301 60 64	269	$\begin{array}{c} 158 \\ 3018 \\ 3298 \end{array}$
				108	108			
182,830	138,836	321,666	821,866	492,915	1,314,781	110,051	436,740	546,791

1 GEORGE V., A. 1911 Table No. 11.—Summary of Freight Traffic

=		ł					
	33	34	35	36	37	38	39
						PRODU	CTS OF
			Packing H Products.	louse	POULTRY	r, Game an	р Fish.
Number.	Name of Railway.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Origin- ating on Road.	Tounage received from connecting Roads and other Carriers.	Total Freight Ton- nage.
2	Alberta Railway and Irrigation Co	8	12	20	277	5 499	690
4 5 6	Bay of Quinte	75		75	890		896
8 9 10	Brandon, Saskatchewan and Hudson Bay. British Yukon Brockville, Westport and Northeastern	473	36	473 36	27 48	12	27 €0
11 12 13	Bessemer and Barry's Bay. Brandon, Saskatchewan and Hudson Bay. British Yukon.  Brockville, Westport and Northeastern. Canada Southern Canadian Government—Intercolonial.  "P. E. Island Canadian Northern Canadian Northern, Ontario. Canadian Northern, Quebec. Canadian Pacific Cape Breton Caraquet	9,309 2,657	41,179	2,657	1,781 19,415 3,271	13,637 11,851	15,418 31,266 3,271
14 15 16 17	Canadian Northern Canadian Northern, Ontario	11,992 627 28 485	1,803 115 2,849 50,657	13,795 742 2,849 79,142	4,331 11 927 31.886	254 56 3,751 17,102	4,585 67 4,678 48 988
18 19 29	Cape Breton Caraquet Carillon and Grenville.				24 42	2	26 42
21 22 23	Caraquet Carillon and Grenville. Central Ontario Crowsnest Southern Cumberland Railway and Coal Co.	985		985	1,485		1,485 57 2,023
25, 26	Elgin and Havelock	10.548	22 37.743	22 48.291	1.424	11.831	10
28 29 30	Grand Trunk (Canada Atlantic) Halifax and Southwestern Hereford	23 58 22	831	854 58 22	1,365 $4,430$ $10$	25 2	1,365 4,455 12
31 32 33	Crowsnest Southern Cumberland Railway and Coal Co. Dominion Atlantic Elgin and Havelock Eastern British Columbia Grand Trunk Grand Trunk Grand Trunk (Canada Atlantic) Halifax and Southwestern Hereford Inverness Railway and Coal Co. Irondale, Bancroft and Ottawa Kaslo and Slocan Kent Northern	18	6 10	$\begin{array}{c} 24 \\ 10 \\ \end{array}$	516	161	677 4 750
35 36 37	Kent Northern Kettle River Valley Kingston and Pembroke Klondike Mines Liverpool and Milton	93	19	112	21	28	49
40	Lotbinière and Mégantic	1,415	1,111	5,120	123	152	210
42 43	Manitoulin and North Shore	203	45 68	3 46 271	6 <sub> </sub>	7 49	2 7 55
$\frac{45}{46}$	Moncton and Buctouche	32	21,291	21,323	6	6,465	6,471
48	Montreal and Province Line Montreal and Vermont Junction. Morrissey, Fernie and Michel.		3,897	3,897		1,423	1,423
50 51	Napierville Junction Railway		90	90 56	9		9
52	New Brunswick Coal and Railway Co						

SESSIONAL PAPER No. 20b

Movement for the Year ending June 30, 1910-Continued.

40	41	42	43	44	45	46	47	48
ANIMAL	${f S}-Continued$							
	Wool.		Hin	ES AND LEAT	нев.	OTHER PR	ODUCTS OF	Animals.
Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tounage.	Tennage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.
1	1	3 2 26	49 3 52 19 12	13 1 10 22	62 4 62 41 12	20		
$\begin{array}{c} 205 \\ 794 \\ 50 \end{array}$	8,883 788	9,088 1,582 50	152 1,858 3,445 438	33 28,728 3,170	185 30,586 6,615 438	81 706 711 7,349	1,229 47,665	81 706 1,940
2,083 4	4,751	6,834 4	4,776 246 125 24,263 18	115 43 569 31,142	4,891 289 694 55,405 18			
		5 4	385 517 29	105 44 45	591 74	653 123 40		670 123 59
1,362 67  1 26	4,307 98	5,669 165 1 28	11 103	35,255	56,106 948 147 11 103 6	51,615 4,641 193	\$4,859 212	136,474 4,853 193
27	46	73	25	778	25 944			
31	57 1 61	88 1 69	184 41 8 211	1,445	1,629 41 8 1,173	1,845 209	304 32	2,149 241
21 33	2,867 180	2,888 33 180	1,064 139 66	16,805 777 2,013	17,869 916 2,079		882	882
			31	89	89 31	70		70

1 GEORGE V., A. 1911 TABLE 11.—Summary of Freight Traffic

	33	34	35	36	37	38	39	
						PRODUC	CTS OF	
			PACKING-H PRODUCTS.	OUSE .	POULTRY, GAME AND FISH.			
Number.	Name of Railway.	Tounage Originat- ing on Road	Tonnago received from connecting Koach and other Carriers.	Total Freight Ton- nage.	Tonuage Origi- nating on Road.	Tonnage received from connecting Roads and other Carriers.	Toral Freight Ton- nage.	
53 54 55	New Brunswick and Prince Edward Island. New Brunswick Southern	18		18	169		344 169	
56	North Shore			9	1.		6 19	
59 60 61 62	Ottawa and New York	7,801	4,197	119 11,998	678	5 373		
63 64 65 66 67	Quebec Central. Quebec and Lake St. John. Quebec Railway, Light and Power Co. Quebec, Montreal and Southern. Red Mountain	408 90	766 64 26	766 472 116	20 75	i	21 75	
$-68 \\ -69$	Rutland and Noyan					18	18	
71	Schomberg and Aurora. Stanstead, Shefford and Chambly St. Clair Tunnel.		6,831	6,831	316	1,046	1,362	
73	St. Lawrence and Adirondack	9	325	334		4,608	4,608	
75 76	Sydney and Louisburg (Dom. Coal Co.) Spokane and British Columbia.		260	260	22	18	40	
77	Sydney and Louisburg (Dom. Coal Co.) Spokane and British Columbia. Temiscouata. Temiskaming and Northern Ontario	121	30	151	42	41	83	
					59 1,367	63	1,367	
82 83 84 85	Torouto, Hamilton and Buffalo. Vancouver, Victoria and Eastern. Victoria and Sidney, B.C. Victoria Terminal and Ferry Co. Wabash Railway Co. (in Canada). Wellington Colliery Co.	31 21,884	175	206 21,884	17	90		
86	York and Carleton				109		141	
	Final total	100,890	176,849	277,739	81,178	73,642	154,820	

Movement for the Year ending June 30, 1910-Continued.

40	41	42	43	44	45	46	47	48				

#### ANIMALS-Continued.

	WOOL.		Hib	es and Leat	HER.	OTHER PRODUCTS OF ANIMALS.			
Tonnage Originat- ing on Road.	Tonnage · received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	
				. 125	125				
2		2							
4	1	5	3	1	4				
170	26 140		-,	107 3,544	$154 \\ 4,561$	10,175	209 746	10,921	
2		2	58 144		172 144	1.894		1,894 129	
		• • • • • • • • • • • • • • • • • • • •	22 6	101	123 6	·····i7		17	
		••••	1,500	31	34 1,500				
	463	463	304	969	1,273	172	2,362	2,362	
	33	33	97	1,497	1,594	256	1,998	2,254	
				1	4				
3	i	4	44	13					
31		31							
80 26	167 37	247 63	297 21	983	$\frac{1,280}{21}$	888 2,266	5,023 188	5,911 2,454	
22 35	44 32	66 67	20 3	39 131	59 134	495 1	115 514	610 515	
699		699	6,000		6,000	8,761	140		
5,828	22,986	28,814	70,033	129,820	199,853	95,663	146,545	242,208	

1 GEORGE V., A. 1911 Table 11.—Summary of Freight Traffic Movement

		_						
	49	50	51	52	53	54	55	
						PI	ODUCTS	
		Ant	нкасіте Со	OAL.	BITUMINOUS COAL.			
Number.	Name of Railway.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tounage.	Tonnage Originat- ing on Road,	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	
1 2 3 4 5	Alberta Railway and Irrigation Co. Algoma Central and Hudson Bay Atlantic and Lake Superior Atlantic, Quebec and Western Bay of Oninta	54 1	2718	54' 1	34, 434 212 2	4,126 6,124 2,573 1,062 22,153	38,560 6,336 2,573 1,064 22,153	
	Atlantic, Quebec and Western. Bay of Quinte Bedlington and Nelson Bessemer and Barry's Bay				359	22,100	359	
8	Brandon, Saskatchewan and Hudson Bay	6,910		6,910	1,878		1,878 266	
10	Brockville, Westport and North- western		664 1,151,649	664 1,151,649		$\frac{123}{462,092}$	123 462,092	
12 13 14	Canadian Govt.—Intercolonial P. E. Island Canadian Northern	340° 33.514	59.770	340 93.284	690,403 7,534 49,795	126 528	1,047,685 7,534 186,333	
15 16 17	British Yukon Brockville, Westport and Northwestern Canada Southern Canadian Govt.—Intercolonial P. E. Island Canadian Northern Canadian Northern, Ontario Canadian Northern, Quebec Canadian Pacific Cape Breton Capaquet	299	5,892 5,265 712,753	6,191 5,265 847,648	1,950 1,950	10,956 31,590 848,469	12,906 31,590 2,040,206	
						$262 \\ 2,100$	302 2,100	
21 22	Central Ontario Crowsnest Southern.	706	2,712	3,418	6,173 8,304 53,533	25,600 26,625 5 273	31,773 34,929 58,806	
24 25	Dominion Atlantic  Elgin and Havelock				3,049	17,228 346	20,277	
26 27 28 29	Carillon and Grenville Central Ontario Crowsnest Southern. Cumberland Railway and Coal Co. Dominion Atlantic Elgin and Havelock Eastern British Columbia. Grand Trunk Grand Trunk, (Canada Atlantic). Halifax and Southwestern Hereford. Inverness Railway and Coal Co. Irondale, Bancroft and Ottawa. Kaslo and Slocan Kent Northern Kettle River Valley	75,649 55	1,840,594 89,489	1,916,243 89,544	$ \begin{array}{r} 106,732 \\ 55,104 \\ 162 \\ 1.013 \end{array} $	1,787,823 83,468 7,277	106,732 1,842,927 83,630 8,290	
30 21 42	Hereford Inverness Railway and Coal Co Irondale, Bancroft and Ottawa	30	39 31 24	69 31 24	25) 273,949	610	25 273,949 610	
33 34	Kaslo and Slocan				35	500	35 500	
$\frac{36}{37}$	Kingston and Pembroke Klondike Mines	162		162	33	41	74	
39	Liverpool and MiltonLondon and Port StanleyLotbinière and Megantic	1,876	14,258	16,134	36,871	62,657 78	99,528 78	
$\frac{41}{42}$	Manitoulin and North Shore Maritime Coal, Railway & Power Co.	21	7,860	7,860	1,142 188,154	1,516	1,142 188,154 1,516	
44 45	Massawippi Valley	3,252		3,252	11,504	20 4,403	11,524 4,403	
47 48	Montreal and Atlantic  Montreal and Province Line  Montreal and Vermont Junction  Morrissey, Fernie and Michel	123	6,820 937 3,896	6,943 937 3,896	26 548, 197	5,337 16,963 8,293	5,363 16,963 8,293 548,197	

SESSIONAL PAPER No. 20b

for the Year ending June 30, 1910—Continued.

56	57	58	59	60	61	62	63	64		
OF MINE	s.									
	Соке.			ORES.		STONE, SAND AND OTHER LIKE ARTICLES.				
Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originating on Road.	Tounage received from connecting Roads and other Carriers.	Total Freight Tonnage.		
	41,190	41,190	122,022		122,022	384 105,780	1,358	1,742 105,780		
	1,427	1,427	6 470	92	562	6,117	47	6,164		
101		101	373		20,332	129		129		
						171 199,684 180,750	143,966 4,116	171 343,650 184,866 3,244		
2,546	555 18	3,101 18	17,104 108,833 233	12,061 2,111 233 8 189,976 2,833	17,337 180,841 233	3,244 $163,752$ $5,141$ $2,450$	44,604 40 8 226	3,244 $208,356$ $5,181$ $10,676$		
219,696	129,786	349,482	1,342,241	189,976	1,532,217	1,192,873 1,250	254,822	1,447,695		
1,058 14,285	1,905 117,517	2,963 131,802	18,925	2,833	21,758	1,576	758	2,334		
			265	185	450	28,522 500	2,636	31,158 500		
18,965 43 15	215,566 514	234,531 557	32,398 1,733 6	288,105 1,386	320,503 3,119 6	813,025 27,283 29 89	263,095 16,161	1,076,120 43,444 29 90		
		1	13,442		13,442	104		$\begin{array}{c} 1\\104\\\\\hline 700\end{array}$		
			481 19,292	5	481 19,297	3,311	34	3,345		
1,333	551	1,904	246 4 370,779 31,888	87 <u>4</u> 9	13 370,779	25,037 78 1 10,100	6,026	78 10,100		
55	69		31,888			266	[, ,	727 33,170 57		
. 11	2,740	2,751		6,525 23		847 4,003	34,013 60 1,183	34,860 4,063		

1 GEORGE V., A. 1911 Table 11.—Summary of Freight Traffic Movement

	49	50	51	52	53	54	55	
						PR	ODUCTS	
		Ant	HRACITE CO	OAL.	BITUMINOUS COAL.			
Number.	Name of Railway.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	Napierville Junction Railway Nelson and Fort Sheppard. New Brunswick Coal and Ry. Co. New Brunswick and P. E. Island. New Brunswick Southern New Westminster Southern North Shore. Nova Scotia Steel and Coal Co. Orford Mountain. Ottawa and New York. Père Marquette (iu Canada). Phillipsburg Railway and Quarry Co. Princeton Branch Wash'n Co. Ry. Quebec Central. Quebec and Lake St. John. Quebec Ry., Light and Power Co. Quebec, Montreal and Southern Red Momtain. Rutland and Noyan. Salisbury and Harvey. Schomberg and Aurora. Stanstead, Shefford and Chambly. St. Clair Tumer St. Lawrence and Adirondack St. Martins. Sydney and Louisburg (Dom. Coal	10,345 16,345 202 167	1 31,336 34,977 2,600 2,400 20,857	1 31,336 45,322 16 2,600 2,400 2,400 202 21,024	43,718 100 304 7,211 203,338 41,239 10,833 176 2,432	2,910 30 235 13 19,279 153,710 4,617  8,300 8,569 20 6,346 1,108	10,051 505 43,718 2,910 1300 304 7,211 235 13 19,279 357,048 4,617 41,239 8,300 8,569 10,853 6,522 2,432 2,432 2,432 1,108 3,731 1,179 2,361	
75 76 77 78 79 80 81 82 83 84 85	Salisbury and Harvey. Schomberg and Aurora. Stanstead, Shefford and Chambly. St. Clair Tuunel. St. Lawrence and Adirondack. St. Martins. Sydney and Louisburg (Dom. Coal Co.). Spokane and British Columbia. Temiscouata. Timiskaming and Northern Ontario. Thonsand Islands Toronto, Hamilton and Buffalo. Vancouver, Victoria and Eastern Victoria and Sidney, B.C. Victoria Terminal and Ferry Co. Wabash Railway Co. (in Canada). Wellington Colliery Co. York and Carleton. Total.	2,526,255 843 39 46,675	1,892 19,173 68 359,309	2,526,255 2,735 10,212 8 359,309 46,675	704 12,292 52 323,113 375,231	443 115 174,045 848 381,581 13: 87	443 819 174,045 848 381,581 12,292 136 139 323,113 375,251	

for the Year ending June 30, 1910—Continued.

56	57	58	59	60	61	62	63	64
F MINE								
	Соке.			Ores		STONE, Li	Sand and ke Article	OTHER
Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tou- nage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonuage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.
	693	693	9,663	9,832	19,495	44	1,060	1,060 44
						620 1,439 155		1,439
7,462	365 <sub>1</sub> ,353	365 8,815	846 1,357	45 2,145	846 45 3,502	510 200,454	1 153 7,046 14,783 1 324	8 153 7,556 215,237 6,713
			1,204	90	1,204	0,100	37 6,162 10,314	0,100
59						2,011	10,314	10,314
				109	109	38	2,685 8,362	2,723
	22,921	22,921		109 287		5,300	8,362	8,387 5,300
			7,563		7,563 32,975	24	23	47
125,105	33	49 217,248 125,138 25	32,875 833,757	2,977	32,975 2,977 833,757	41,720 5,495 4.160	612 24,609	3,405 66,329 5,495 4,342
		2,813	24,533	90	24,533	49,369	4,271	4,273 49,369
393,567	990,687	1,384,254	3,102,779	533,828	3,636,607	3,212,113	872,855	4,084,968

1 GEORGE V., A. 1911 TABLE 11.—SUMMARY of Freight Traffic

	65	66	67	68	69	70	71
		PRODUC	TSOFMI	NES—Con.		PROD	UCTS OF
		OTHER F	RODUCTS O	F Mines.		Lumber.	
Number.	Name of Railway.	Tounage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriets.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.
2	Atlantic and Lake Superior	• • • • • • • • • •			4,221 17 8,427 2,065	17,807 801 383 3,783	22,028 818 8,810 5,848
Ų	Atlantic, Quebec and Westeru Bay of Quinte. Bedlington and Nelson. Bessemer and Barry's Bay			1	7,679 38 4,623	11,635	19,314 38 4,623
9	Bessemer and Barry's Bay				1,507 451		1,507 451
11 12	Canada Southern	63,516 8,457	47,052 3,756	110,568 12,213	604 7,211 425,663	$\begin{array}{r} 729 \\ 185,860 \\ 104,592 \end{array}$	1,333 193,071 530,255
13 14 15	" —P. E. Island Canadian Northern. Canadian Northern, Ontario Canadian Northern, Quebec. Canadian Pacific	4.000		51.950	13,414 574,562 57,357 60,175	97,295 1,614 18,718	13,414 671,857 58,971 78,893
-18	Cane Breton				1,642,798 275 11,697	504,454 158	2,147,252 433 11,697
$   \begin{array}{c}     20 \\     21 \\     22 \\     23 \\   \end{array} $	Caraquet Carillon and Grenville Central Ontario Crowsnest Southern Cumberland Railway and Coal Co	54	706	760	3 40,035 33,213 25,076	55	3 43,458 33,268 25,076
$\frac{21}{25}$	Elgin and Havelock				80,879 7,638	5,337 1	86,216 7,639 445
27 28 29 30	Eastern British Columbia Grand Trunk Grand Trunk (Canada Atlantic) Halifax and Southwestern	33,180 153	29,412 1,321	62,592 1,474	719,560 390,349 66,980 22,058	12,688 784	$1,382,566 \\ 403,037 \\ 67,764 \\ 22,060$
31 32 33	Hereford	604 40		604 40	286 5,782 275	1,152	1,438 5,782 27a
34 35 36	Kent Northern Kettle River Valley Kingston and Pembroke Klondike Mines				$\begin{array}{r} 750 \\ 102 \\ 22,541 \\ 311 \end{array}$		750 102 30,255 311
38	Liverpool and Milton	1 797	4 595	9,322 35	$\begin{array}{c} 13,250 \\ 14,053 \\ 17,008 \end{array}$	20,892	13,250 34,945 17,122
41 42 43 44	Lotbinière and Megantic. Manitoulin and North Shore. Maritime Coal, Ry. and Power Co. Massawippi Valley. Manitoba Great Northern				723 1,248 3,698 2,537	4,016	$\begin{array}{r} 723 \\ 5,264 \\ 107,971 \\ 2,631 \end{array}$
45	Moncton and Buctouche				75,914 781 63		161,542 15,834 12,896
49	Morrissey, Fernie and Michel					18,634	18,634

SESSIONAL PAPER No. 20b

Movement for the Year ending June 30, 1910-Continued.

72	73	74	75	76	77	78	79	80	
FORESTS	i.			Δ	IANUFAC	CTURES.			
Отнек Р	RODUCTS OF	Forests.	PETROLE	UM AND OTHE	ER OILS.	Sugar.			
Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tounage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	
361 34,353 2,164		1,231 34,353 2,190	381 20 27	380 28 68		1,159 57	1,136 33	2,295 90	
3,653 6,039		19,457 6,039	574	53 435	1,009		4		
1,385		1,385	17		17			249 270	
512 18,227 458,841	251 67,880 36,732	763, 86,107 495,573	6,466 16,801 772	208 48,643 14,258	208 $55,109$ $31,059$		232 36,756 1,647	59,169	
400,951 106,237 95,072	4,517 637 81,392	405,468 106,874 176,464	19,389 1,066	8,209 41	772 27,598 1,107 5,286	832 6,420 569	90	659	
1,086,103 $365$ $2,160$	197,750 14	1,283,853 379 2,160		96,466 1	154,579 1	120,469		176,447	
66,535 15,495	2,475	69,010 15,495	66		802 66		265	265	
3,9 <b>3</b> 8	15	8,064 100 3,953		207 28 14	1,264 $28$ $14$	10	61	71	
623,571 105,794 66,586 122,310	450,551 27,031	$\begin{array}{c c} 1,074,122\\ 132,825\\ 66,601\\ 122,310\\ 3,113 \end{array}$	82,467 1,399 1,210 102 52	71 24	137,891 6,495 1,281 126 296	$\begin{array}{c} 10,798 \\ 266 \\ 143 \end{array}$	54	12,628 320 177	
20,225		20,225		46	46		78	78	
1,038 12,867 25,395		1,038 12,867 25,395	115	1,044		783	2,278	3,061	
34,934 34,826 25,995	7,528	42,462 34,826 25,99f	1,476 $26$	214	4,042 214 26	95	2,319 15	$\begin{pmatrix} 4,595 \\ 15 \\ 25 \end{pmatrix}$	
33,919 4,589 14,247	172,309	206,228 4,589 14,247		155 1,219	155 1,219		53 735	735	
	316		127	1,308 33 107	1,435	559		24,624	

1 GEORGE V., A. 1911
Table 11.—Summary of Freight Traffic

65	66	67	68	69	70	71	
	PRODUC'	rsof MI2	XES-Con.		PROD	JCTS OF	
	OTHER P	RODUCTS OF	Mines.	LUMBER.			
Name of Railway.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	
50 Napierville Junction. 51 Nelson and Fort Sheppard 52 New Brunswick Coal and Ry. Co 53 New Brunswick and P. E. Island. 54 New Brunswick Southern 55 New Westminster Southern 56 North Shore 57 Nova Scotia Steel and Coal Co 58 Orford Mountain 59 Ottawa and New York 60 Pere Marquette (in Canada) 61 Phillipsburg Ry. and Quarry Co	725 59 26,456	12 578 11,099	80 12 725 637 37,555	156 4,499 8,338 17,680 9,554 22,665 555 5,894 9,199 2,049 77,503	40 204	5,587 4,571 8,338 17,980 9,572 22,665 5,934 9,403 10,290 128,755	
22 Princeton Branch of Washington Co Railway. 63 Quebec Central 64 Quebec and Lake St. John 65 Quebec, Montreal and Southern 66 Quebec, Montreal and Southern 67 Red Mountain 68 Rutland and Noyan 69 Salisbury and Harvey 70 Schomberg and Aurora 71 Stanstead, Shefford and Chambly. 72 St. Clair Tunnel	2,883 69,521	398	2,883 69,521 398	6,676 107,618 72,803 6,102 3,432 807  16,748 1,118 329	10,358 102 27,011 28,695	6,676 107,618 83,161 6,204 30,443 807 28,695 16,748 1,118 4,723	
72 St. Clair Tunnel		3,302	3,302	318 9,890	75,272	75,590 9,890	
76 Spokane and British Columbia. 77 Temiscouata 78 Temiskaming and Northern Ontario 79 Thousand Islands. 80 Toronto, Hamilton and Buffalo. 81 Vancouver, Victoria and Eastern. 82 Victoria and Sidney, B.C.	7,510 838 6,313	293 8,481	7,803 9,319 6,313	18,120 4,723 98,124 65,963 110 4,536 71.039 3,868 949	343 8,504 3,340 35,036 2,880 1,520	40,790 1,723 98,467 74,467 3,450 39,572 73,919 5,388 3,892	
84 Wabash Railway Co. (in Canada) 85 Wellington Colliery Co				82,331 341 6,875		82,331 341 6,908	
Final total	. 260,936	120,176	381,112	5,109,254	2,192,783	7,302,037	

SESSIONAL PAPER No. 20b

Movement for the Year ending June 30, 1910—Continued.

72	73	74	75	76	77	78	79	80
FOREST	8.			:	MANUFA	CTURES.		
OTHER :	Products of	Forests.	PETROL	EUM AND OTR	er Oils.		Sugar.	-
Tonnage Originat- ing on Road.	Tonnage received from connecting Roadsfand other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tomage received from connecting Roads and other Carriers.	Total Freight Ton- nage.
7,826 1,351 860		7.826 1,351 860	39	1,218	1.218 39 			710
4,201		4,201	106		106	15		91 15
10,465 1,086 192,653	10,030	10,505 11,116	228 8,140	20 44 693	20 44 921 14,436	5 43 12,550	28 95 117 5,690	28 100 160 18,240
44,351 12,988 2,507	15,532 60 111,507	13.048	113	5,012 457 140	359 5,012 457 253 1,009	204	3,645 830	830 204
10,261 5,803	117 869	10,261 $117,869$ $5,803$	38	114	114			
94	1,639	94 1.639		37 322	37 322		$\frac{69}{1,747}$	69
711 740		29,753	22	5,213	5,235	6		54,246
120 1,564	410	530 1,577		610	610		86	86
171,895	631 133	172,526 133	141 1,795	388 2,399	529 4,194	305 528	128 160	433 688
2,399 10,148	3,020 141	5,419 $10,289$	645 1,391		61 11,899 1,391 956	42 141	333	1.11
$   \begin{array}{r}     11,537 \\     30 \\     26,455   \end{array} $	11,853	$\begin{array}{c} 12,050 \\ 11.883 \\ 26,455 \end{array}$	2 531 15,447	954 467	956, 998 15,447	75 7,433	67	67 75 7,433
4,286,055	1,480,848	5,766,903	220,728	279,439	500,167	261,150	356,081	617,231

1 GEORGE V., A. 1911 No. 11.--Summary of Freight Traffic Movement

81	82	83	84	85	86	87
					МА	NUFAC-
	NA	VAL STORE	s.	Iron, I	Pig and B	LOOM.
Name of Railway.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Ton- nage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Ton- nage.
1 Alberta Ry. and Irrigation Co 2 Algoma Central and Hudson Bay	6	14	20	6	348	354
2 Argoma Central and Hudson Bay 3 Atlantic and Lake Superior 4 Atlantic, Quebec and Western 5 Bay of Quinte 6 Bedliugton and Nelson				114 1 6,687	1,063 47 25	1,177 48 6,712
8 Brandon, Sask, and Hudson Bay 9 British Yukon	388		388	209		209
western				7,497	43,533	65 51,030
nial	49		. 49	86,916 446 15.982	7 661	$\begin{array}{r} 110,716 \\ 446 \\ 23,643 \end{array}$
14 Canadian Northern, Ontario. 15 Canadian Northern, Quebec. 17 Canadian Pacific. 18 Cape Breton	74	148 28,952	222 28,952 497	1,629	22,338 123,138	23,967 215,478
19 Caraquet 20 Carillon and Grenville 21 Central Ontario 22 Crowsnest Southern.				2,063	:17	2.120
22 Crowsnest Southern. 23 Cumberland Ry. and Coal Co 24 Dominion Atlantic. 25 Elgin and Havelock.	62		62	252	148	400
26 Eastern British Columbia 27 Grand Trunk. 28 Grand Trunk, Canada Atlantic. 29 Halifax and Southwestern. 30 Hereford 31 Inverness Railway and Coal Co. 32 Irondale, Bancroft and Ottawa. 33 Kaslo and Slogan	47	1,069	1,069 47	130,164 1.902	239,357 5,580	369,521 7.485
29 Halifax and Southwestern 30 Hereford	10	35	45	43		43
32 Irondale, Bancroft and Ottawa. 33 Kaslo and Slocan 34 Kent Northern						
35 Kettle River Vallev 36 Kingston and Pembroke 37 Klondike Mines.				2	28	30
37 Klondike Mines. 38 Liverpool and Milton. 39 London and Port Stanley.					1	3,235
40 Lotbinière and Megantic				22	157	24 179
43 Massawippi Valley 44 Mauitoba Great Northern 45 Moncton and Buctouche		26	20	$i_1 = 103$	1,278	1,38
46 Montreal and Atlantic		134	13-			870
49 Morrissey, Fernie and Michel					1	

for the Year ending June 30, 1910-Continued.

88	89	90	91	92	93	91	95	96
URES.								
Iron	AND STEEL I	Rails.	OTHER CAS	rings and M	ACHINERY.	Bar as	ND SHEET	METAL.
Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.	Tounage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and other Carriers.	Total Freight Tonnage.
12/ 2/ 71	357 982 4 709	358 984 4 709 71	313 66 146 282 464 29	1,263 157 767 1,893 179	1,576 223 913 2,175 643 29		96 20	20
			1,167 2,625		$1,167 \\ 2,625$	57		
2,041	12,188	14,229	36,608	$170 \\ 190,059$	170 226,667	5,167	70 $170,325$	70 175,492
121,542 600 74,268 2,804 51,691	12,815 89,215 1,876 4,539 72,749	134,357 600 163,483 4,680 4,539 124,440	230,212 422 23,347 807 1,117 89,768	24,677 9,992 879 2,215 169,058	254,889 422 33,339 1,686 3,332 258,826	11,951 157 3,176 474 42,832	937 1,588 136 61,626	12,888 157 4,764 610 104,458
271 712	761	1,032 712	454 548	1,121 27	1,575 575	283 80	20	303 80
366 	44 76 113,732 3,965 1,019	366- 44 76- 178,211 €5,217 1,020 102 30	709 70 22 55,525 1,515 664 125 53 15	900 153,197 2,852 780 37 156 20 12	1,609 70 177 208,722 4,367 1,444 162 209 35; 22			
23	3	26	367 508	781	1,148 508		20	20
984 95 86	684 23 294 2,485	715 23 984 294 2,580 86	2,122 71 591 43 238 365	1,768 139 314 334 33	3,890 210 59 357 572 398	1,138 72 36 3,031	1,008 3 36 173	2.146 $72$ $36$ $209$ $3,031$
29	7,181	7,210	702	17,828 493	18,530 493	16	954	1,000

1 GEORGE V., A. 1911 Table 11.—Summary of Freight Traffic Movement

	81	82	83	84	85	86	87
						Ma	ANUFAC
		Nā	VAL STORE	s.	Iron,	Pig and B	LOOM.
Number.	Name of Railway.	Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.
51 52	Napierville Junction			• • • • • • • • • • • • • • • • • • • •	15	18	33
54 55 56	Island.  New Brunswick Sonthern  New Westminster Southern  North Shore.  Nova Scotia Steel and Coal Co	1					• • • • • • • • • • • • • • • • • • • •
8	Orford Mountain Ottawa and New York Père Marquette, in Canada Phillipsburg Ry, and Quarry Co		233 280	244 2,993	5 95 7,971	4,384	528 12,358
32	Onchor Control				645	3,190	648 3,196
35 36 37	Quebec and Lake St. John Quebec Railway, Light and Power Co Quebec, Montreal and Southern Red Mountain.	12 12	57	2 69		23 840	357 1,475
8. 9 0	Rutlaud and Noyan. Salisbury and Albert. Schomberg and Aurora. Stanstead, Shefford and Chambly					1,210	1,21
3	St. Clair Tunnel St. Lawrence and Adirondack St. Martins		1,411	1,411		1,234	1,23
8	Sydney and Louisburg, Dom. Coal Co Spokane and British Columbia Temiscouata Temiskaming and Northern Ontario				9	150	15
30 31	Thousand Islands				46 9,629 53	4,786 19,295	4,83 28,92 5
34	Victoria and Sidney, B.C	240		240	111 15,464		11 15,46
56	York and Carleton				383,066	506,815	889,88

SESSIONAL PAPER No. 20b

for the Year ending June 30, 1910.—Continued.

88	89	90	91	92	93	94	95	96
CURES-	Continued.							
Iron	AND STEEL I	RAILS.	OTHER CAS	STINGS AND M	ACHINERY.	BAR AN	SD SHEET A	METAL.
Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.
233 223		. 233 223	7 134	854	861 134	52	1,295	1,295 52
45	230	230 45	225 118	135 18	135 243 118	75 88	150 1	150 76 88
<b>3</b> 8	547 1,679	38 547 1,848	53 31 503 11,702	4 164 598 4,337 632	57 195 1,101 16,039 632	73 6,275	3 53 2,904 2,472	3 53 2,977 8,747
23	3,900 175	3,900 175 23 351	125 1,500 1,150 305	1,234 3,453 121	125 2,734 4 603	73	4,556	4,556
151 48	200	351 48 251	359 28	1,365 146	426 1,724 28 146	122 21	1,957	2,079 21
	863	869	466	8.380	8,846	1	2,940	2,941
610	280	890	80 40 4	8,380 100 120 17 713	180 160 21	8	160	168
37 325	8,138 30,112		608 50		1,321	24 1,578 1,097	1,382 3,504 2,972	1,406 5,082 4,069
131 1,599			9,245 4,990 13 107	53,421 265 170	62,666 4,990 278 277	5,470 2,263 78	55,286 102 14	60,756 2,263 102 92
15,986		15,986	42,802		42,802	48,310		48,310
341,080	376,001	717,081	526,735	662,479	1,189,214	170,107	398,794	568,901

1 GEORGE V., A. 1911
TABLE 11.—SUMMARY of Freight Traffic Movement

97	98	99	100	101	102	103
					MZ	ANUFAC
	CEMENT,	BRICK AND	LIME.	AGRICUL	TURAL IMPL	EMENTS.
Name of Railway.	Tonnage Originating on Road.	Tonnage Recrived from Connecting Roads and Other Chrriets.	Total Freight Tomage.	Tounage Originating on Road.	Tournage Received from Connecting Roads and Other Chariers.	Total Freight Toumge.
1 Alberta Railway and Irrigation Co.		1,832	3,360	679	1,008	1,687
2 Algoma Central and Hudson Bay 3 Atlantic and Lake Superior 4 Atlantic, Quebec and Western 5 Bay of Quinte 6 Bedlington and Nelson	46 113 28,365	109 455 336	155 568 28,701	13 140	25 10 300	38 10 440
Bessemer and Barry's Bay.  Brandon, Saskatchewan and Hudson Bay.			724	729	17	746
9 British Yukon	357		357			
western Canada Southern Canadian Government :—	826	228 78,857	1,054 87,517	9,404	158 39,864	158 49,268
12 Intercolonial	47,360 1.823	64,161	111,521 1,823	2,969 665	6,616	9,585 665
14 Canadian Northern 15 Canadian Northern, Ontario 16 Canadian Northern, Quebec	61,779	56,241 2,258 25,020	118,020 3,778 84,834	35,690 2.574	15,169 65 536	50,859 2,639 536
10 ('ane Breton				95,474	72,256 50	167,730
19 Caraquet 20 Carillon and Grenville. 21 Central Ontario 22 Crowsnest Southern	391	8,522	8,913	12	87	99
Chmherland Kallway and Coal Co			8,197	579	19	591
24 Dominion Atlantic. 25 Elgin and Havelock. 26 Eastern British Columbia	120	20 175	140 175		10	10
28 Grand Trunk, Canada Atlantic 29 Halifax and Southwestern	430,192 44,519 1,547	21,219 21,219 225	694,746 65,738 1,772	59,463 1,097 35	1,756 24	59
30 Hereford	11	185 31		57 3	13	70 3 15
34 Kent Northern 35 Kettle River Valley 36 Kingston and Pembroke	681	782	1,463	35	15	50
38 Liverpool and Milton 39 London and Port Stanley. 40 Lotbinière and Megantic.	9,379 279	6,311	15,690 327	123 6	723 47	846 58
41 Manitoulin and North Shore	128	960 487	124 9 6 615	34	30	1 64
44 Manitoba Great Northern		6,364	127	799 551	1,195	799 1,746
46 Montreal and Atlantic 47 Montreal and Province Line 48 Montreal and Vermont Junction 49 Morrissey. Fernie and Michel	594 15	1,579 112				79

SESSIONAL PAPER No. 20b

for the Year ending June 30, 1910—Continued.

104	105	106	107	108	109	110	111	112			
TURES.—Continued.											
Wagons, Carriages, Tools, &c. Wines, Liquors and Beers. Household Goods and "Furniture."											
Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carrers.	Total Freight Tonnage.	Tonnage Originating on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.			
99 59 25 39 635	334 19 50 34 465	433 78 75 73 1,100	4 10 37 11 7	65 1 146 32 63	69 11 183 43 70	1,774 5 118 103 373	1,460° 22° 31° 37° 40°	3,234 27 149 140 413			
276		276	$\frac{16}{507}$		16 507	151 39		151 39			
20,652	37 18,860	37 39,512	$\frac{35}{1,592}$	$\frac{60}{12,920}$	95 14,512	$\frac{106}{2,715}$	283 17,672	389 20,387			
7,988 219 24,767	4,440 140 1,194 19,113	212 12,428 359 1,194 43,880	263 12,441 695 850 61,314	2,485 327 17,083 32,434 2 2 75	263 14,926 1,022 17,933 93,748 2 75	3,492 445 50,049 1,016 926 110,934	6,407 19,294 173 1,244 36,174	9,899 445 69,343 1,189 2,169 147,168			
15 5	7	22 5	17	604	621	503 70	222				
333		333	142 250	28 10	170 260	1,551 16	171 16 18	725 70 1,722 32 18			
19,223 2,706 58 34 2	12,411 447 62 1 8 14	$\begin{array}{c} 31,634 \\ 3,153 \\ 120 \\ 35 \\ 10 \\ 14 \\ \end{array}$	31,197 1,537 1,080 32 28,	18,571 3,389 11 66 115 57	49,768 4,926 1,091 98 143 57	54,992 1,899 499 634 95 139		71,998 2,724 1,020 660 124 167			
15		15						12			
260	24	284	300	449	749	665	59	724			
2,675 5 4 1 255 394	1,198 13 15 131	3,873 18 4 16 386 394	1,353 40 1 119 30	342 11 71 133	$\begin{array}{c} 1,695 \\ 11 \\ 40 \\ 72 \\ 252 \\ 30 \end{array}$	1,353 90 36 50 385 143	608 53 86 5,729 10	1,961 143 36 136 6,114 153			
70	411	481	515	4,389 38 276	4,904 38 276	1,620 206 12	2,897 1,721	4,517 206 1,733			

1 GEORGE V., A. 1911
TABLE No. 11.—Summary of Freight Traffic Movement

Name of Railway.		97	98	99	100	101	102	103		
Name of Railway.			MANUFAC							
50         Napierville Junction         50         1,421         1,471         43           51         Nelson and Fort Sheppard         219         219         16            52         New Brunswick Coal and Ry. Co			CEMENT,	Brick an	D LIME.	AGRICULTURAL IMPLEMENTS,				
51 Nelson and Fort Sheppard.         219         16           52 New Brunswick Coal and Ry. Co.         400         4           53 New Brunswick and P. E. Island.         175         175         400         4           54 New Brunswick Southern.         528         528         15         1           55 New Westminster Southern.         471         471         471         1           56 North Shore.         10         10         8         58         58         0rford Mountain.         3         244         247         1         56         56         57         Nova Scotia Steel and Coal Co.         10         10         8         58         58         0rford Mountain.         3         244         247         1         56         57         Nova Scotia Steel and Coal Co.         10         10         8         58         58         0rford Mountain.         7,490         2,230         9,720         37         43         66         92         67         Mark         1,772         2,4         67         29         37         43         67         67         67         67         68         1,772         2,5         65         555         555         555         555         555	Number	Name of Railway.	Originat- ing on	Tonnage received from connecting Reads and other Carriers.	Freight	Originat- ing on	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.		
53 New Brunswick and P. E. Island         175         175         400         440         454         New Brunswick Southern         528         15         1         460         454         New Brunswick Southern         528         15         1         471         558         15         1         471         558         15         1         471         558         15         1         471         558         528         15         1         471         558         528         15         1         471         558         528         15         1         471         558         558         528         15         1         461         558         558         558         558         558         558         558         558         558         558         558         568         569         567         569         567         569         567         569         567         568         67,208         678         1,772         2,34         67,208         678         1,772         2,561         51,725         15,483         67,208         678         1,772         2,561         51,725         15,483         67,208         678         1,772         2,4386         24,386         6,837 </td <td>51</td> <td>Nelson and Fort Sheppard</td> <td></td> <td></td> <td>219</td> <td>16</td> <td></td> <td>43 16</td>	51	Nelson and Fort Sheppard			219	16		43 16		
Nova Scotia Steel and Coal Co.   10   10   10   58	53; 54 55	New Brunswick and P. E. Island New Brunswick Southern New Westminster Southern	528 471	175	175 528	15		400 16		
62 Princeton Branch Wash'n Co. Ry. 63 Quebec Central 7, 201 84 Quebec and Lake St. John. 7, 201 84,386 85 Quebec Ry., Light and Power Co. 85,573 86 Quebec, Montreal and Southern. 86 Quebec, Montreal and Southern. 87 Red Mountain 89 Salisbury and Albert. 80 Salisbury and Albert. 80 Salisbury and Albert. 81 Stanstead, Shefford and Chambly. 81 St. Lawrence and Adirondack. 82 September 19 St. Lawrence and Adirondack. 83 St. Lawrence and Adirondack. 84 September 19 Sydney and Louisburg (Dom. Coal Co.) 840 840 840 840 840 840 840 840 840 840	58 59 60	Nova Scotia Steel and Coal Co Orford Mountain Ottawa and New York Père Ma quette (in Canada)	3 7,490 51,725	244 2,230 15,483	$\begin{array}{c} 247 \\ 9,720 \\ 67,208 \end{array}$	$\frac{1}{37}$	56 43	8 57 80 2,450		
66 Quebec, Montreal and Southern       2,715       2,767       5,482       37         67 Red Mountain       222       222       363       363         67 Rutland and Noyan       363       363       12         69 Salisbury and Albert       283       283       12         70 Schomberg and Aurora       283       283       12         71 Stanstead, Shefford and Chambly       19       468       487       236       2         72 St. Clair Tunnel       28       8,825       8,853       1       525       5         74 St. Lawrence and Adirondack       28       8,825       8,853       1       525       5         75 Sydney and Louisburg (Dom. Coal Co.)       840       208       1,048       2       2         76 Spokane and British Columbia       272       771       1,043       169       119       5         78 Temiskaming and Northern Ontario.       11,198       14,423       25,621       2,083       3,154       5,5         79 Thousand Islands       106       581       687       21	62 63 64	Princeton Branch Wash'n Co. Ry Quebec Central	3,399 24,386 7,201 5,573	4,242 50	3,399 24,386 11,443 5,623		445 5	6,379 445 59		
70 Schomberg and Aurora. 283 283 127 18 tanstead, Shefford and Chambly. 19 468 487 236 236 27 28 t. Clair Tunnel. 28 8,825 8,853 1 525 57 28 t. Lawrence and Adirondack. 28 8,825 8,853 1 525 57 29 20 20 20 20 20 20 20 20 20 20 20 20 20	67 67 69	Red Mountain	222	363	222 363		37	37		
74 St. Martins 75 Sydney and Louisburg (Dom. Coal Co.). 840 208 1,048  Co.). 840 208 1,048  76 Spokane and British Columbia 77 Temiscouata. 840 272 771 1,043 169 119 2 87 Temiskaming and Northern Ontario. 840 208 1,048  272 771 1,043 169 119 2 88 Temiskaming and Northern Ontario. 840 208 1,048  272 771 1,043 169 119 2 88 Temiskaming and Northern Ontario. 840 208 1,048	70	Schomberg and Aurora		283 468	487			$\frac{12}{236}$		
To   Sydney and Louisburg (Dom. Coal   S40   208   1,048	10	St. Lawrence and Adirondack	20	8,825		1	525	526		
77 Temiscouata	75	Sydney and Louisburg (Dom. Coal Co.).	840	208	1,048					
The state of the s	77 78	Temiscouata	272 11,198	14,423	25,621		3,154	5,237		
81 Vancouver, Victoria and Eastern. 5,884 132 6,016 363	80 81	Toronto, Hamilton and Buffalo Vancouver, Victoria and Eastern	2,723 5,884	17,604 132	20,327 6,016		1,000	21 39,405 363 240		
83 Victoria Terminal and Ferry Co 55, 676 731 161 89 84 Wabash (in Canada). 60,770 . 60,770 5,224 . 5,85 Wellington Colliery Co. 55, 676 731 3 161 89 5,224	83 84 85	Victoria Terminal and Ferry Co Wabash (in Canada)	60,770	, 676	731 60,770			250 5,224		
86 York and Carleton. 100 577 677	86	York and Carleton				950 990	176 506	434,928		

for the Year ending June 30, 1910-Continued.

104	105	106	107	103	109	110	111	112	
TURES-	Continued.								
Wagons,	Carriages, T	Cooks, &c.	Wines,	Liquors and	Brers.	Носѕенов	ED GOODS A	ND FURNI-	
Tomage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freght Tonnage.	Number,
51	6	6 51	31	12	43	62 42	16 5	78 47	50 51 52
12	10	10 12	223	130	130 224	69 10	2	10	53 54 55 56
2 1 35 14,754	3 17 37 2,938	$ \begin{array}{r} 5\\18\\72\\17,692 \end{array} $	$\begin{array}{c} 22\\1,407\\7,462\end{array}$	2 56 98 839	78 1,505 8,301	2 58 1,268 7,462	4 51 222 1,492	6 109 1,490 8,954	57 58 59
10 69	1,823 232 1	1,823 232 11 168	3,418 97 1,832 56	1,367 198 3 172	4,785 295 1,835 228	6 2,848 223 164 197	5,468 110 66 129	8,316 8,316 333 230 326	62 63 64 65 66
			120		120		109		68 69
				111 641	111 641	23	11 193	216	70 71 72
	1,050	1,050	5	1,340	1,345	1,088	£56 10	1,7 <del>11</del> 10	73 74
87 373	238 2,151 28	325 2,524 28	11 217 312	605 921	11 822 1,233	140 196 882 32	160 12 150 1,505	300 12 346 2,387 32	76
2,350 865 79 4,733	333 169 90	2,683 865 169 169 4,733	313 663 271 12,426	813 504 251	1,126 663 504 522 12,426	455 3,512 59 83 8,170	586 255 205	1,041 3,512 314 288 8,170	80 81 82 83
1,100		1,100	15,120		12,120				85
104,454	68,683	173,137	143,309	102,317	245,626	264,326	. 124,305	388,631	

1 GEORGE V., A. 1911
TABLE 11.—Summary of Freight Traffic

	113	114	115	116	117	118	119	
	IIV				- 1			
		MANUFACTURES—Con. MERCHANDISE.						
		OTHER	Manufac	rures.				
Number.	Name of Railway.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originate ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	
$\frac{1}{2}$	Alberta Railway and Irrigation Co. Algonia Central and Hudson Bay				4,796 1,821	2.351 170	7,147 1,991	
3. 1.	Algoma Central and Hudson Bay Atlantic and Lake Superior Atlantic, Quebec and Western	86	76	162	249	392	641	
6	Bedlington and Nelson	192	512	1,00±	62		62	
8 9	Be-semer and Barry's Bay Branden, Sask, and Hudson Bay British Yukon	420	179		1,591 7,793	104	1,695 7,793	
10	Brockville, Westport and North- western. Canada Southern. Canadian Govt.—Intercolonial	1,010 100.234	2,528 929.126	3,538 1.029.360	570	934	1,504	
14 ( 15 (	Canadian Northern. Canadian Northern, Ontario Canadian Northern, Quebec Canadian Pacific	26,240 1,697	52,692 540	78,932 2,237	12,812 3,425	$\begin{array}{r} 67,531 \\ 286 \end{array}$		
16 (	Canadian Northern, Quebec	6,201	6,945	13,146	194,506	319,766	514,272 255	
10 (	Cape Breton,				520	2,460	2,980	
20 21 22	Carillon and Grenville Central Ontario Crowsnest Southern Cumberland Railway aud Coal Co	7,532 558	8,300	15,832 558	12,083 1,293	9,085 42	12 21,168 1,335	
.,1	Llominion Atlantic				4,004	4,560	9,130	
25 26	Elgin and Havelock Eastern British Columbia.	494	333	827	25	560 315	340	
28	Grand Trunk. Grand Trunk, Canada Atlantic	119,482 26,064	140,048 8,800	259,530 33,864	557,309 62,053	455,419 53,186		
29 30	Grand Trunk. Grand Trunk. Canada Atlantic. Halifax and Sonthwestern. Heteford Inverness Railway and Coal Co.	18,745 564	201 50	18,946 614	1,637	1,380	3,017 180	
0.0	frontine. Different and Ottawa				120 15 963	770 197	785 1,160	
34	Kaslo and Slocan	100		100		2,360	2,360 230	
36 37	Kettle River Valley				13,815.	3,410	17,225 1,275	
38	Klondike Mines Liverpool and Milton London and Port Stanley.	1,208 6,827	5,342	1,208 12,169	61,318	2,528	63,846	
41	Lotbinière and Mcgantic		71	83	148 720	764	912 720	
43	Maritime Coal Ry, and Power Co  Massawippi Valley  Manitoba Great Northern		1,086	17,438 2,472	1,148 675	4,550 57	5,698 732	
45	Moncton and Buctouche  Montreal and Atlantic	288	3,821	4,109		19,478	20,191	
-17	Montreal and Province Line Montreal and Vermont Junction				3,798 464	12,694 5,963	16,492 6,427	
	Morrissey, Fernie and Michel				6,318		6,318	

Movement for the Year ending June 30, 1910-Continued.

120	121	122	123	124	125	Λ	В	c ,
MIS	CELLANEC	ous.	REC	APITULAT	ION.			
OTII	er Commodi	TIES.	(	Frand Total	4.			
Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tounage received from connecting Roads and other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage received from connecting Roads and other Carriers.	Total Freight Tonnage.
2,730 621 3,110 14,859	28,180 279 6,958 561 21,451	/ . " !	72,170 $268,580$ $15,858$ $4,069$ $78,145$ $6,542$ $24,975$ $66,263$ $23,744$	105,920 9,366 15,311 10,905 80,952 58	178,090 277,946 31,169 14,974 159,097 6,600 24,975 66,623 23,744			
. 98 50,733 293,246 33,376 165,323 4,364 47,970 1,859,963 764	118 456,595 120,028 77,146 12,789 18,290 921,832 327 910	2167 507,328 413,274 33,376 242,469 17,153 66,260 2,781,795 1,091	8,959 692,134 2,838,061 103,100 2,987,236 389,194 292,213 14,456,851 1,543 16,384	13,497 6,060,113 1,145,993 	641,052 20,551,368 2,869 26,218			1
1,013 642 727 27,225 780,335 46,413 14,215	1,014 51 5,685 10,325 217 197 1,006,233 53,934 4,481	$\begin{array}{c} 2,027 \\ 693 \\ 6,412 \\ 37,550 \\ 217 \\ 197 \end{array}$	13 190,995 78,291 79,346 282,205 10,394 111,162 6,088,300 1,117,820 189,876	32 82,148 145,875 13,418 60,052 3,137 1,326 10,663,043 417,164 23,974	$\begin{array}{c c} 45 \\ 273,143 \\ 224,166 \\ 92,764 \\ 342,257 \\ 13,531 \\ 112,488 \end{array}$			200
141 559	3,473	141 4,032 79	163,202 280,365 26.679 14,834 2,701 2,104 79,134 14,961 40,503	3,026 10,293 2,428 247 4,260 27,849	165,228 290,658 29,107 15,081 6,961			9 9 9 9
$ \begin{array}{r} 20,388 \\ 57 \\ 450 \\ 146 \\ 7,824 \\ 2,507 \\ \\ 13,771 \end{array} $	13,383 71 825 21,090 5	33,771 128 450 971 28,914 2,512  313,629	296, 202 53, 275 412, 456 190, 566 125, 039 61, 205 21, 031 143, 048	190,100 2,599 30 8,734 368,680 41,231 8,224 967,516	486,302 55,874 412,486 199,300 493,719 102,436 29,255 1,110,564			
389 935	4,634 10,873	5,023 11,808	15,187 2,293 554,515	58,618 92,622 18,634	73,805 94,915 573,149			4

1 GEORGE V., A. 1911 TABLE 11.—SUMMARY of Freight Traffic

_								
	113	114	115	116	117	118	119	
		MANUI	ACTURE	S-Con.	MERCHANDISE.			
		OTHER	Manufac	rures.		_		
Number.	Name of Railway.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	
50° 51	Napierville Junction	466	462	462 466	163 2,082	745 52	908 2,134	
52 53 54 55	Nelson and Fort Sheppard New Brunswick Coal and Ry. Co New Brunswick and P. E. Island New Brunswick Southern New We-tminster Southern North Shore	3,560	9,330	12.890 10 113	73 3,612	1,640	1,640 73 3,612	
57	Nova Scotia Steel and Coal Co		85	85 71		85 281	95 326	
61	Orford Mountain. Ottawa and New York. Père Marquette (in Canada). Phillipsburg Ry, and Quarry Co		8,387 13,104	24,963 50,753	338,161	6,203 60	344,364 60	
63	Princeton Br'ch of Washington Co. Ry Quebec Central Quebec and Lake St. John	49,°84 24,232	7,491 8,837	49,884 31,723 10,604	4,789 13,670 2,613		4,789 57,450 5,500	
65 66 67	Quebec Ry., Light and Power Co Quebec, Montreal and Southern Red Monntain	259 67	370	7,403 12,447 67	7,054 632		16,050 632	
69 70	Rutland and Noyan. Salisbury and Albert. Schomberg and Aurora. Stanstead, Shefford and Chambly	156	1,835 1,200 106	1,356		216	285 9,647	
72 73 74	St. Clair Tunnel	767	46,415		145	1,700	1,845	
75 76 77	Sydney & Louisburg (Dom. Coal Co.) Spokane and British Columbia Temiscouata	20 50	300 20	320 70	41 573	37 939	78 1,512	
79	Temiskaming and Northern Ontario. Thousand 'Islands Toronto, Hamilton and Buffalo Vancouver, Victoria and Eastern	.,,,,,,	82,981	108,173		12,493	21,173	
82 83 84	Victoria and Sidney, B.C. Victoria Terminal and Ferry Co Wabash Railway Co. (in Canada)	258 93,832	1,121 1,129	1,207	60 183	177 677	237 860 96,952	
85	Wellington Colliery Co		2,157	2,157	26	25	51	
	Final total	619,931	1,377,610	1,997,541	1,455,802	1,062,388	2,518,190	

SESSIONAL PAPER No. 20b

Movement for the Year ending June 30, 1910—Concluded.

120	121	122	123	124	125	A	В	С	=
MISO	CELLANEO	US.	RECAPITULATION.			_			
Отн	ER COMMODIT	ies.	Grand Total.			•			
Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Totai Freight Tonnage.	Tonnage Originat- ing on Road.	Tonnage Received from Connecting Roads and Other Carriers.	Total Freight Tonnage.	Number.
26 437 2,935 5,902 74 103 1,162 112,437	457 20 240 455 1,447 32,831	483 457 2,935 6,142 74 558 2,609 145,268	5,910 28,220 56,967 26,875 20,108 40,644 8,173 6,039 22,472 40,821 1,695,893 5,401	222,969 10,274 10,670 9,425 454 1,070 4,534 100,665 466,354 7,880	S,173 7,109				52 53 54 55 56 57 58 59 60
151 3,418 18,640 852 276 99 173 115 1,386	336 1,916 1,434 700 28	151 17,088 43,597 1,188 2,192 99 1,434 873 143 13,578	160,474 545,913 160,206 103,248 62,238 19,570 222 47,358 5,349 2,996	142,238 99,928	160,474 688,151 260,134 111,317 273,046 19,722 170,944				62 63 64 65 66 67 68 69 70
191 17,120 3,389 6,049 9,871	5,452 8,118 4,620	8,841 14,167 14,491	10,237 16,155 2,563,591 14,603 112,029 367,056 15,179	659,327 2,560 97,053 632 26,225 325,331 19,334	2,660,644 15,235 138,254 692,387 34,513				73 74 75 76 77 78 79
18,974 8,773 643 611 36,928	139,139 102 2,114 1,636	158,113 8,875 2,757	190,902 1,153,398 22,297 7,022 1,366,666 375,572 7,285	1,452,817 4,340 13,469 27,230 2,988 1,216	$ \begin{vmatrix} 1,643,719\\1,157,738\\35,766\\34,252\\1,366,666\\378,560 \end{vmatrix}$	;			81 82
3,652,108	3,420,970	7,073,078	42,279,812	32,203,054	74,482,866				

Table 12.—Summary of Equipment for the Year ending June 30, 1910.

<u> </u>		Xumber,	-0004001-005H	2212212223338333536 <u>88</u>
116		Total.	0.00 mm m	\$\frac{8}{8} \frac{8}{8} \frac
15		Other cars in passeng e r service,		ia 61
14	ž.	Baggage, ex- press and postal.	61 - 8 - 61	261 15 1 15 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
13	Passenger Service.	Sleeping.		82 83 816
12	ENGER	Parlour.	_ : : : : : : : : : : : : : : : : : : :	⇒ 01 ± ∞ 01
1		Dining.		\$ 66 8 K
10	CARS IN	Insignant.		74 5 6 6 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
6		Combi- nation.	000000	% c 11 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 3 : 3 : 3
×		Second-class		48551255 1 1 65 c
1-		First-class.	A4   A4   WUTVZ	55.55.55.55.55.55.55.55.55.55.55.55.55.
9		Leased.		1 0 7
70	VES.	Total.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$\frac{1}{2}\frac{1}{2
-	Locomorives	Switching.	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3	$\Gamma_0$	Freight.	0000+-001H08	262 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
61		Passenger.		115 25 25 25 25 25 25 25 25 25 25 25 25 25
1		Name of Railway.	Alberta Railway and Irrigation Co. 2 Algoun Central and Hudson Bay. 3 Atlantic and Lake Superior. 4 Atlantic, Quebec and Western. 5 Bay of Quinte. 6 Bedlington and Nelson. 7 Bessenter and Barry's Bay. 8 Brandon, Saskatchewan and Hudson Bay. 9 British Yukon. 10 Brockville, Westport and Northwestern. 11 Canada Southern.	Canadian Overtiment Natiways  13. P. E. Island. 14 Canadian Northern. 15 Canadian Northern. 16 Canadian Northern. 17 Canadian Pacific. 18 Cape Breton 19 Carquet. 20 Carillon and Grenville. 21 Cavandast Southern. 22 Cumberland Kallway and Coal Co. 23 Dominion Atlantic. 25 Elgin and Havelock. 25 Elgin and Havelock. 26 Eastern British Columbia. 27 Grand Trunk (Canada Atlantic). 28 Grand Trunk (Canada Atlantic). 29 Haifax and Southwestern. 30 Hereford.

ᆽ롲죣첰킈뭙똮앫똮껿댴륟쥳잗뀰돧쥳잗쮼잗륟륟쫎칾뉡캶캶캶캶캶첉첉궦몍쿅뺚뺚퍞몆쁂훘첉뽏횂뱛횂뱛 21823862 - 31 E 32 Frondale, Bancroft and Ottawa
33 Kaslo and Slocan
34 Kent Northern
35 Kette River Valley
36 Kingston and Penbroke
37 Klondika Miros
38 Liverpool and Mitton
39 London and Port Stanley
40 Lotbinière and Megantic
41 Manitoulin and North Shore.
42 Maritime Coal, Railway and Power Co.
43 Massavipiy Valley
44 Manitoba Great Northen
45 Montreal and Atlantic
46 Montreal and Province Line
47 Montreal and Province Line
48 Montreal and Province Line
49 Montreal and Province Edward Island
40 Norrissey. Femie and Michel
50 Napieville Junction
51 Nelson and Fort Sheppard.
52 New Brunswick Coal and Railway Co.
53 New Brunswick Coal and Railway Co.
54 Nova Scotia Steel and Coal Co.
55 New Brunswick Southern
56 New Brunswick Southern
56 New Brunswick Southern
56 Nova Scotia Steel and Coal Co.
57 Princeton Branch of Washington County Ry
68 Cuebec Railway, Light and Power Co.
66 Quebec Railway, Light and Power Co.
66 Quebec Railway, Light and Chamibly
67 Schonberg and Aurora.
68 Rutland and Novan.
68 Shishuy and Adirondack
68 Rutland and Novan.
69 Shokane and British Columbia.
77 Temiscousta
77 Temiscousta
78 Temiscousta
78 Temiscousta
78 Temiscousta
78 Temiscousta
78 Varcoutc, Hamilton and Buffalon
89 Toronto, Hamilton and Buffalon
81 Vancouver, Victoria and Eastern

1 GEORGE V., A. 1911

Table 12.—Summary of Equipment for the Year ending June 30, 1910—Continued.

		Zumber.	38258	
16		Total.	SS 1 61	4,320
15		Other cars in passenger service,		37
#		Baggage, ex- press and postal.	: m ===	626
13	CARS IN PASSENGER SERVICE.	Sleeping		283
12	SNGER 5	Parlour.	8	83
11	Passi	.gainiG	ि इ	123
10	ARS IN	Emigrant.		318
6	_1	.noination.	1 16 116	435
00		Second-class.		512
2		First-class.	62 7 1	1,564
9		Геалед.		5
5	Es.	Total.	 83 2	4,079
<del>- 1</del>	LOCOMOTIVES.	Switching.	9 :	388
rs.	Loc	Freight.	6, 6,	2,601
©1	l.	Passenger.	: := :-	1,090
		Name of Railway.	Victoria and Sidney, B. C. 83 Victoria and Sidney, B. C. 84 Wabash (in Canada). 85 Wellington Colliery Co. 85 Wellington Colliery Co. 86 York and Carleton.	Totals
		Number,	88.2.888	

Table 12.—Summary of Equipment for the Year ending June 30, 1910.—Continued.

	(	Zumper-	<u> </u>
89	Cars	leased	<u> </u>
33	Total	in Service.	8. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
- F		Total.	24
30	SERVICE	Other Road.	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
20	ANY'S S	Caboose.	21 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
200	COMP.	Merrick	ψυ π π ±πο−ξ
27	CARN IN COMPANY'S SERVICE.	(†ravel.	200 200 200 200 200 200 200 200 200 200
96		Officers' and pay.	
22		Total.	670 141 143 177 1608 11,608 17,70 10,360 48,850 48,850 10,36
24		Other cars in freight service.	88 1 1 1 1 2 1 88 1 1 1 1 1 1 1 1 1 1 1
25	WICE.	Refri- ger- ator.	1 1 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
83	HT SER	Tank.	£ 9 111 111 111 111 111 111 111 111 111
21	FREIG		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
50	JAES IN FREIGHT SERVICE	Stock. Coal.	2, 2, 2, 2, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
19		Flat.	2
318		Box.	2.5
11		Name of Railway.	Alberta Railway and Irrigation Co 2 Algona Central and Hudson Bay 3 Atlantic and Lake Superior 4 Atlantic, Quebec and Western. 5 Bay of Quinte 5 Bay of Quinte 6 Bedlington and Nelson. 7 Bessener and Barry's Bay 8 Brandon, Saskatchewan and Hudson Bay 9 Britaly Vikon 10 Brockville, Westport and Northwestern 11 Canada Southern. 12 Intercolonial 13 P. E. Island 14 Canadian Northern. 15 Canadian Northern. 16 Canadian Northern. 16 Canadian Northern, Quebec. 17 Canadian Northern, Quebec. 18 Cape Breton. 19 Carequet. 19 Carequet. 22 Cumberland Railway and Coal Co. 23 Central Outario. 24 Common Atlantic 25 Cimberland Railway and Coal Co. 25 Eligin and Havelock. 26 Esstern British Columbia. 27 Frand Trunk, Canada Atlantic. 28 Grand Trunk, Canada Atlantic. 29 Halifax and Southwestern. 31 Inverness Railway and Coal Co. 31 Hereford.
		Number.	

Table 12.—Summary of Equipment for the Year ending June 30, 1910—Continued.

			1 GEORGE V., A. 1911
33	Cars	Sase Sase Muniper	892000000000000000000000000000000000000
32	7 2	nn service,	8 4 8 8 4 4 4 8 8 4 4 8 8 4 4 8 8 8 8 8
33		Total.	# 1
30	COMPANY'S SERVICE	Other road.	
29	ANY'S S	Caboose.	
28		Derrick.	:
27	CARS IN	.lever.	98
36	0 1.4	Officers'	
25		Total.	61.8858851866886688866888668866886688668866
24		Other car in freigh service,	2, 10, 11, 10, 10, 10, 10, 10, 10, 10, 10
23	RVICE.	Refri- ger- ator.	4 1
25	SHT SE	Tank.	
21	Paric	Stock, Coal. Tank	4
20	CARS IN PERIGHT SERVICE	Stock.	\$\frac{1}{4}\$
19		Flat.	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
18		Box.	38 888 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
17	Name of Railway.		2 Irondale, Bancroft and Ottawa 33 Kaslo and Slocan 34 Kent Northern 55 Kettle River Valley 56 Kingston and Pembroke 57 Klondke Mines 58 Liverpool and Milton 58 Liverpool and Milton 59 Loubinere and Megantic 51 Maritime Coal Railway and Power Co 51 Maritime Coal Railway and Power Co 52 Marsawhipi Valley 54 Maritoulin and North Shore 55 Montreal and Buctonele 56 Montreal and Province Line 56 Montreal and Province Line 57 Montreal and Vermont hunction 58 Montreal and Vermont hunction 59 Norpierville Junction 50 Napierville Junction 51 New Brunswick Coal and Railway Co 53 New Brunswick Coal and Railway Co 55 New Brunswick Southern 56 North Shore 57 Nova Scotia Steel and Coal Co 58 New Westminster Southern 56 North Shore 57 Nova Scotia Steel and Coal Co 58 Orford Montain. 59 Ottawa and New York 60 Pere Marquette (in Canada) 60 Pere Marquette (in Canada) 61 Perinceton Branch of Washington Co. Ry 62 Princeton Branch of Washington Co. Ry

#1091-200PHS	ရက္သည္ မွာ ႏုသည္။	000000000	,
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100	- 10 00 00 00 00 00 00	1,729
852 1,572 1,672 16 17 180	120 1,510 30 30 155 155	316 249 249 211 1,014	132,681
ॐ अध्यस्त : क			8,648
93.33	2		3,892
कन्तरमान े ∶ल	80 B	9 1 2	1,895
H H	<b>н</b> н		127
15			2,645
H	01		68
767 108 1,540 14 13 13 164	1,493 1,493 28 28 139 646	284 206 17 933 200 200	119,713
	10	506	2,019
10 10		172	2,539
			195
24 : :, s	1,413	94 172	12,680
8-8:8-1	10	86	5,528
186 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	30 64 61 61 61 61		20,769
1,395 1,395 50 50 102	150	185 559 255 559	75,983
64 Quebec and Lake St. John 65 Quebec Railway, Light and Power Co 66 Quebec Montreal and Southern 67 Red Mountain 78 Shutland and Noyan 70 Seltomberg and Albert 71 Stansteed, Shefford and Chambly 72 St. Clair, Tunnel	73 SE. Lawrence and Adiron/ack. 74 Sydney and L. nisburg (Doninion Coal Co.) 75 Shokane and British Columbia. 75 Section 27 Temisconata. 77 Temisconata. 78 Temisconata. 78 Temisconata. 79 Temisconata.	99 Troughton, Hamilton and Buffalo SI Vancouver, Victoria and Eastern SI Victoria and Sidney, B. C. SI Victoria Treminial Rallway and Ferry Co. SI Victoria Treminial Rallway and Ferry Co. SI Wabash (in Canada) Si Wellington Colliery Co.	Totals

1 GEORGE V., A. 1911

Table 13.—Summary of Cars in Freight Service for the Year

11	108	109	110	I11	112	113	114
		Box	Cars.	FLAT	Cars.	STOCE	CARS.
Number	Name of Railway.	Number:	Aggregate Capacity.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.
			Tons.		Tons.		Tons.
3	Alberta Railway and Irrigation Co. Algoma Central and Hndson Bay Atlantic and Lake Superior. Atlantic, Quebec and Western.	32 4	80 1,130 60	$376 \\ 10$	220 13,305 150		
- 5	Bay of Quinte Bedlington and Nelson	17	350	126	2,820		
- 7	Bessemer and Barry's Bay Brandon, Saskatchewan and Hudson Bay			1	15		
9 10 11 12 13 14 15 16 17 18 19 20	British Ynkon.  Brockvil e, Westport and Northwestern. Canada Southern. Canadian Govt. Ry.—Intercolonial.  "Prince Edward Island. Canadian Northern. Canadian Northern, Ontario Canadian Northern, Quebec. Canadian Northern, Quebec. Canadian Pacific Cape Breton Caraquet Carillon and Grenville. Crowsnest Southern.	97 8 1,412 6,784 313; 8,086 192 463 34,572	1,868 200 47,690 196,205 3,130 242,580 5,760 13,820 1,025,640	74 6 176 2,992 147 1,251 433 144 6,883 10 25	1,408 120 4,080 75,480 1,470 36,475 12,990 4,085 214,300 300 375 20	33 1 19 144 21 410 15 16 2,748	660 20 380 3,365 210 12,120 450 390 77,635
22 23 24	Cumberland Railway and Coal Co. Central Ontario. Dominion Atlantic Elgin and Havelock.	53 212	1,270 4,655	33 182 214 6	430 4,640 5,150 60	11 12 1	320 240 10
26 27 28 29 30 31	Eastern British Columbia Grand Trunk Grand Trunk, Canada Atlantic Halifax and Southwestern Hereford. Inverness Railway and Coal Co. Irondale, Bancroft and Ottawa.	9 16,054 1,689 94 60 8 2	360 445,320 46,990 2,630 1,800 160 40	10 4,427 326 211 10 29 28	400 114,290 8,650 5,630 200 870 560		43,630 1,440 40
33 34 35 36	Kaslo and Slocan Kent Northern Kettle River Valley Kingston and Pembroke	26 1 5 7	520 $10$ $125$ $140$	2 1 13 43	40, 10 325 860		
38 39 40	Klondike Mines Liverpool and Milton London and Port Stanley Lotbinière and Megantic Manitoulin and North Shore	6 1 30 2	90 10 810 45 40	17 14 3) 24 99		3	90
42	Maritime Coal, Railway and Power Co Massawippi Valley	350	6,9501	2 150	$\frac{40}{2,750}$		
44 45 46	Manitoba Great Northern Moncton and Buctouche Montreal and Atlantic	5 239	100 5,635	38 210	760 6,075		97.5
48	Montreal and Province Line.  Montreal and Vermont Junction.	43 264	745 7,790	22 134	380 3,920	4	80
-50	Morrissey, Fernie and Michel Napierville Junction Valson and East Shaypayd	7 20	280 600			5	150
52 53 54	Nelson and Fort Sheppard New Brunswick Coal and Railway Co New Brunswick and Prince Edward Island New Brunswick Southern New Westminster Southern	6 4 6	$\begin{array}{c} 160 \\ 70 \\ 120 \end{array}$	53 41 33	1,330 615 660		
	North Shore.	1	30	1	30		

SESSIONAL PAPER No. 20b ending June 30, 1910, showing Number and Aggregate Capacity.

115	116	117	118	119	120	121	122	123	124
Coai	L CARS.	Tani	k Cars.	Refri C.	GERATOR ARS.	Отне	c Cars.	Т	OTAL.
Number:	Aggregate Capacity.	Number.	Argregate Capacity.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.	Number:	Aggregate Capacity.
	Tons.		Tons.		Tons.		Tons.		Tons.
47 27	830					235	11,020	62 670 14	$\begin{array}{c} 1,240 \\ 26,285 \\ 210 \end{array}$
								143	3,170
2	40						20	1 3	20 55
12	240			4	80	177	3,549	$\frac{177}{220}$	3,540 $4,256$ $380$
$\begin{array}{c} 2\\36\end{array}$	850		tib0					$\begin{array}{c} 17 \\ 1,675 \end{array}$	53,650
$\frac{1,543}{22}$	26,338 330		1,000	143 3	3,950 30 2,940	52	1,560 40	$\frac{11,698}{510}$	307,898 $5,210$
515 60	$\frac{21,000}{3,000}$		 	98; 98; 9	$2,940 \ 60$	70	2,800	10,360 $772$	315,115 25,060
$\frac{34}{2,701}$	875 120,390	4	80	9 1,097	230 30,885	845	27,045	666 48,850	19,400 1,495,975
							<b></b>	10	300 450
						312	10 6,246	3 312	30 6,240
485 10	6,225							520 256	6,705 6,630
25	510							463	10,555
	100.010	110	0.100	0.45				19	70 760
4,344 80	186,010 2,900	-		947 25	750			27,549 $2,175$	819,722 60,730
7	70							317 70	$8,460 \\ 2,000$
148								155 30	5,470 600
						14	280	$\frac{42}{2}$	840 20
						$\frac{10}{2}$	$\begin{bmatrix} 250 \\ 40 \end{bmatrix}$	28 52	$700 \\ 1,040$
								23 15	345 150
45	1,290					]		81	2,265
· · · · · · · · ·								$\begin{array}{c} 26 \\ 100 \end{array}$	765 3,980
						6	120	500	$\frac{160}{9,700}$
								43	
4	60			1	36			488 69	12,715 1,185
23 50	460			4	120	1	15	430 57	12,385 1,780
(ان								25	750
10	250					21	420	21 69	$\frac{420}{1,740}$
						6	120	45 45	685 900
	75					37	740	37	740 135

1 GEORGE V., A. 1911
Table 13.—Summary of Cars in Freight Service for the Year ending

-							
	108	109	110	111	112	113	114
		Box	Cars.	FLAT	Cars.	STOCK CARS.	
Number.	Name of Railway.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.
-							
			Tons.		Tons.		Tons.
	Nova Scotia Steel and Coal Co	1	$\frac{40}{20}$	15 11	300 220		
59	Ottawa and New York	1 200	42 200	14	280 3,625	9.4	1.000
-61	Père Marquette, in Canada	1,322	43,300	132 1	25	34	1,000
62	Princeton Brauch of Washington County Ry	25	750	10	300	;	1 005
	Quebec Central	308 476	7,915 14,490	325 186	7,260 4,365	$\frac{74}{20}$	1,965 480
65	Quebec Railway, Light and Power Co	17	340	76	1,520	1	20
	Quebec, Montreal and Southern	1,395	41,850	45 7	1,125 $140$	90	2,700
68	Rutland and Noyan	50	1,500	5 29	150	2	40
	Salisbury and Albert Schomberg and Aurora	4	40	13	435 195	1	15
71	Stanstead, Shefford and Chambly	102	1,940	52	845	1	20
	St. Clair Tunnel	75	2,250	30	900		
74	Siduey and Louisburg (Dominion Coal Co.)	16	320	64	1,000		
	Spokane and British Columbia	5	$\frac{125}{20}$	13 6	$\frac{325}{120}$		
	Temiscouata	78	1,950	61	1,320	10	200
78 79	Temiskamiug and Northern Ontario	150	5,500	486 1	16,540 $20$		300
	Toronto, Hamilton and Buffalo,	185	5,550	89	2,470	10	300
82	Vancouver, Victoria and Eastern Victoria and Sidney, B.C.	2	40	15	300		
	Victoria Terminal Railway and Ferry Co Wabash (in Canada)	559	17,640	22	750	86	2,520
85	Wellington Colliery Co	5	70	14	190 60		
86	York and Carleton.			4			
	Final total	75,983	2,211,963	20,769	576,198	5,528	151,565
							1

June 30, 1910, showing Number and Aggregate Capacity—Continued.

115	116	117	118	119	120	121	122	123	124	
Coal	Cars.	TANE	c Cars.	Refri	GERATOR ARS.	Отне	R CARS.	T	OTAL.	
Number.	Aggregate Capacity.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.	Number.	Aggregate Capacity.	Number.
	Tons.		Tons.		Tons.		Tons.		Tons.	
26	520							43 12	860 240	58
610	21,360			11	325			2,109	320 69,610	60
								$\frac{1}{35}$	25 1,050	$\frac{61}{62}$
25	750	2	40	6	180 90			740 767	18,110 21,535	63
81 14								108	2,160	65
				10	300	¦		1,540 14	45,975 $280$	66667
2	80							59	1,770	68
								34 13	490 195	70
8	160			1	20			164	2,985	71
								105	3,150	73
1,413	25,725					10	250	1,4 '3 28	27,045 700	74
							200	7	140	76
				· · · · · · · · · · · ·	· · · · · · · · · · · · ·			139 646	$3,270 \\ 22,340$	77
								1	20	79
			• • • • • • • • •			206	4.120	984 206	8,320 4,120	
						200	4,120	17	340	82
94	3,720			172	5,160			933	29,790	83
172	4,410			1,2		9	90	200	4,760	185
								4	60	86
12,680	438,178	195	3,962	2,539	73,520	2,019	58,720	119,713	3,514,106	;

Table 14.—Summary of Bridges, Trestles and Tunnels for the Year ending June 30, 1910.

		Minimum Maximum Length.	Ft. In.			108 0	30 0 0					0 0
			_			-	# " 6		1,870	<u> </u>	25 18 18 18 18	: :
1	Wooden.	Minimum Length.	Ft. In.	80 80 80 80 80 80 80 80 80 80 80 80 80 8	0 %	9 6	223	) :			187	10.03
	Woo	Aggregate Length.	Jn.	615 0 60 0 125 0 852 0	306 0	11,7 6	2.0 2.0 2.0 2.0 2.0 2.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3				18 18 18 18 18 18 18 18 18 18 18 18 18 1	150 0
				The second secon	: - 55		3.71				c — x	: : : es
					0	: . o	<b>35</b>		: :		- 0	:
		Maximur Length.		510	8		1,785	670 1,416	3,654	- 067	1,207	
GES.	N.	finimum	ſij.	290 0	0 69	11 0			28	34 0	. :0 : :68 : :	
SRID	<u>=</u>	rte N			-	: :10				::0	: :	
		Aggrega	l·t. 1	1 1 1		6,379		_		1,134	:	
		No.		: : : : : : : : : : : : : : : : : : :		: <del>-</del>	1397	2 59 57	*974	= =	. <del>4</del> 8	
		mum gth.	Ĭï.		::	0 20			0 92			
		Maxi	弄		::	:						: :
	ONE.	Minimum Length.	Ft. In.			- x			16 0			
	S.		ln.			6 919			3,566 0			
		1	=		: :	32.	: :		:	: : :	: : :	: :
		N N			::	:	: :					:::
	Name of Railway.			Alberta Railway and Irrigation Co. Algona Central and Hudson Bay. Atlantic and Lake Superior Atlantic, Quebec and Western Bay of Quinte. Bedlington and Nelson. Pessenner and Barry's Bay. Brandon, Şaskatchewan and Hudson Bay.	Brothylle, Westport and Northwestern	Bruce Mines and Algoma		Canadian Northern. Canadian Northern, Ontario. Canadian Northern. Onelwo.	Canadian Pacific Cape Breton	Garaquet Carillon and Grenville Central Ontario	Crowsnest Southern Cumberland Railway and Coal Co. Dominion Atlantic.	26 Eastern British Columbia
	BRIDGES.	Name of Railway.	STONE.  STONE.  STONE.  No. Aggregate Minimum Maximum No. Length. Length. Length. Length.	Name of Railway.   Stone.	Name of Railway.   STONE.   IRON.   IRON.   IRON.   IRON.   Aggregate Minimum Maximum   No.   Length.   Length.	Name of Railway.   Stone.   Stone.	Name of Railway.   Stronk.   Itox.   Itox.   Itox.   Stronk.   Itox.   Itox.	Name of Railway,   Stone,   Inox.   Inox.	Name of Railway.   Stone.   Stone.	Name of Railway.   Stone   S	Name of Railway.   Stone.   Stone.	Stocker   Name of Railway.   Stocker   Stock

SES	SSIC	NAL P	AP	ER N	No. 2	20b.																	
00	:0	::	⇒ :	÷ •	ີ :	٠	. 9	0	000	: =	:	: :	==	=	: :			: "	:	÷ .	: :	:	. 0
560 373	90	318	988 	₩ ::	- CF			141					<u>R</u> R	246					:				: <del></del>
ào		00	; > :	0 3	= :			00	o (~ c				0 =	0	-								
55	: 21	: g = :	: ع	÷ :	: E :	: : :	: :	20:	814 621	9 : 9	. :	: :	들음	1-		: :	: :	: :	:		: :	:	15
	7	· ·			= :			37:	푸끔				- 163						:				: -
⊃ 61		.000	<u>-</u>	⇒ :	0 : 0	::	: : 9		O 1-3	000	= =	. 0	00	00		: :	: :	: .	:	. : :	: :	:	0
$\frac{16,329}{2,950}$	1,288		2,330	669	1,950 910			382	357	969	99 99 99 99	80	1,035	88.5					:			:	561
418	2.2	<u>.</u> च्याः	<del>I</del> :		; ;	1 : :	: :2	12	01 <u>-</u>	<u> </u>	10		७ हि	- 46	:		: :	::	:			12	9
50	. 0			0 =	-				10			5	0	. 5	•	<u></u>	• •		in c		:		· =
# 2	103	പ്രപ്പിട്ട		185 185	215	: 956 87	166		314			ි :	550	208		250		်တ္တ	9 9	988			112
6,594	# : :		: :		1,2]	- TG *** 	:	: :				•	či ,	ଦ୍ୟ		; ;	2,236					:	
00	: -	:000	: :	9 ==	: =	:00	. 33	: :	. 00	: :	: :	ີ :	=	=======================================	: :	: 0	=				: :	:	0
8 EI		:888 :		182	16	18 m	166		· 83			13 	100	23		150	: : :	253					112
$\infty$	. es	000	: :	110	:0	00	_ 03	: :	:90	00	: :	<b>0</b>		=		:=	:0	:0	ານີວ			0	0
57.5	:91	202 525 90	: :	448 185	,572	,751 34	166	: :	86	# <del>5</del> 5	: :;	9 00 8 00 8 00	<u>a</u>	1,029	: :	9	909	:51	S 8	853	: :	185	113
96,745 10,457	: :ç,	: : 1170	::	¬¬¬	1,5	1,7	-		2,698		: :			1,0	: :	7	ંજો :	:		18.4 19.75 19.75	::		
871	:ভ	: 90 m = 1	1.	10	. 9	: © ==	:-	: :	: ĝi		: : :	о —	<sup>ଜୀ</sup> :	Ξ.	:	. ca	1.0	: en	7	1287	: :	ទា	: -
	:	:			:		:	: :	:		: :		:			:	:	:			: :		
÷ :	:		:0	: :	: :	: : :	: ::	:	: .	: :	: :	: :	: :			: :	: :	: :			: :	:	: :
300	: R		: :	: :				:21 :														:	
G :	. 0	<del>- : : :</del>	-	. :	• •	: :	-	0		: :		: :			:	<del>: :</del> -	<del>: :</del>	:::	÷		•	:	:
<u>e</u> :	: 33	. : : :	. 08	: :				. 61	: :			: :	: :			: :	: :	: :	:		: :	:	
	:	: : : :	:	: :	: :		: :		: :		: :	: :	: :			: :	: :	: :	:	: : :	: :	:	: :
_ :	:		:	: :		: : :	: :	:	: :	: :	: :	: :			:	: :	: :	- :	:	: : :	: :	-	
5:	: _		:_	: :	: :			: [2]	: :	: :		: :	: :		:	: :	: :	: :	:		: :	:	: :
4,630	<u>:</u> ⊊		:@ :				::												:		: :	:	
92 :					· ·	. :	-	-				: :	: :		:	: :	: .	<del>: :</del>			: :	:	
					1												: :		:				
-					• 🙃	· ·								,									-:
: :	: :		: :	: :	aette	: :	: :	: -		: :									Ė,			:	: :
								:					ٽ :				: :	0.0	: Č				
: :	: :		:	: :	Ma	: : :	: :	: :	: :	E		: :	vay nd.	:		: :	: :	5 G	W	: :	: :	:	<u>.</u>
ntic	: :	: :Ö 🐉	: :	: :	: d.1.5	: : :	: 5	3 :	: ',	, ă,	<b>:</b>	: :	ail.	: _		:ဗီ		L Cal	: J	her:			nn.
tla:	1 8 3	Soa Otts	: :		(F)		hor	<u> </u>		in in	: :	rd.	ದ ಆಜ	n	:	cal cal		عادة الأرث	. pur	hn.			: Š
8	ste	1 ( ) ( ) ( ) ( )		oke	ive	ntie	28.	2 :	2	7 i	che	- edd	Eg.	hen		4 C	본	\an Wa	1	or T		. 61	nd
nad iso	Zwe Z	y 21	: :	nbr 	it H	Sta	ort	, al	ant	D G	ton	She	Coal	r S		an	Ÿ	way	1.19	St.	an.	Dert	rd a
	out!	lwa zrof	San 1	Per	etro Zio	N E	E E	alle.	Atl	- C	Buc	net ort:	* * *	13. 13. 13. 13. 13. 13. 13. 13. 13. 13.	:-	tee.	#III e≪	red neh		ike real	Voy	All	ffo
nk nk	Y X T		Slo	Min	Ţ,Č	and	an an	2.1	7 TE	E PE	1 P.	J.Z.	wic	wic	Œ	2 × 5	N N	Srai Grai	itra Iws	J K	tain d D	nd and	7
2 2	n ŭ °	: <u>"</u> = 1	E 6	z	2 8 5	E E	lin I	1 11	100	3 6	, E	ind	nns	arts.	IO.	oti	الا الا	1 1	E .c.	N N	an	re /	g,
	18	Q % 5	20	2 3 4	و ښود					2 00				- 1	**	n er -			-	- ಡ್ '	3		
13 J	fax a	forc rnes dale	S S	ston dike	e Krist	In the same	itou	sawi	la.nd trea	trea	ctor	on a	<b>五</b> 型	Br	th Co	SS	rd A Waa	lipst ceto	9 P	)ec a	Mou	bur	ste
rand T	falifax a famotom	fereforc nvernes rondale	cent No	Cingston Jondike	ake Eri Jyernoo	ondon a	Laganet Lanitou	lassawi	Indland fontrea	fontrea	Ioneton	dapierv Jelson a	Vew Bru Iew Bru	Jew Bri	Sorth S.	Tova Sc	rtord A	hillipst	guebec C	uebec a	ted Mou	alisbur	tanstea
29 Grand Trunk (Canada Atlantic)	31 Halifax a 32 Hampton	33] Hereford and So. And this 34] Invertees Railway and Coal Co	37 Kent Northern	38 Kingston and Pembroke 39 Klondike Mines	40 Kettle Kiver Valley 41 Lake Brie & Detroit River (Pere Marq 42 Livernool and Milton	44 Lotbinere and Megantic.	45 Maganetawan River. 46 Manitoulin and North Shore.	45 Massawippi Valley.	49 Mudland of Manitoba	52 Montrea 53 Montrea	54 Moneton	55 Nelson a	57 New Brt 58 New Brt	59 New Brunswick Southern. 60 New Westminister Southern	61 North S	63 Nova Scotia Steel and Coal Co	54 Ortord Mountain 65 Ottawa and New York	66 Phillipsburg Earlway and Quarry Co 67 Princeton Branch of Wash'n Co. Ry.	68 Quebec Central 69 Ouebec Bailway. Light and Power C	70 Quebec and Lake St. John. 71 Quebec, Montreal and Southern.	72 Red Mou 73 Rutland	74 Salisbury and Albert	76 Stanstead, Shefford and Chambly

\*Steel. †Concrete.

Table 14.—Summary of Bridges, Trestles and Tunnels for the Year ending June 30, 1910—Continued.

WOODEN.  WOODEN.  Length.  Length.  Rt. In.  0 13 0	0 09		- 1
5 ZH A : . : .			
11   12   13   13   14   15   15   15   15   15   15   15	3,196 0	144 0	
10 No. 1 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10	13	- C7	1,826
9  Maximum Length.  Ft. In.  830 0 2598 0 8600 0			
BRIDGES.			
BR BR Aggregate Length. Ft. In. 1,322 0 557 0 5300 6 725 0			
8 %			2,852
Maximum Length. Ft. In.			
STONE.  STONE.  Aggregate Minimum Maximum Length. Length. Ft. In. Ft. In.			
Sy Syregate Length. Ft. In.			
23 S. O. S.			180
Name of Railway.  St. Clair Tunnel.  St. Lawrence and Adirondack.  Schar Lawrence and Adirondack.  Schar Lawrence and Adirondack.  Schar Lawrence and Adirondack.  St. Tambeoutaa.  St. Tambsounaa.  St. Tambsounaa.  St. Tembsounaa.  St. Tembsounaa.  St. Tembsounaa.  St. Tembsounaa.  St. Tembsounaa.	84 Toronto, Hamilton and Buffalo 85 Vancouver Copper Co. 86 (Vancouver, Victoria and Eastern	or Victoria and Studey 89 Wellington Colliery Co. 99 York and Carleton	Final total

\* Steel.

TABLE 14.—SUMMARY of Bridges, Trestles and Tunnels for the Year ending June 30, 1910.—Continued.

26			Maxinun Length.	Ft. In.	1,624	12F	792	702	:	2,964	3,750		8,085	202	1,702	:	94
153	TRESTLES.		Minimum Length.	Ft. In.	96 96 96 96 96	210 0	65 0			41 0	15.					82	30
2.1	TRE	·	Aggregate Minimum Length.	Ft. In.	3,420 0 12,191 0	2,927 0	3,407 0	3,183 9,922 0,822 0,878		0 699'6	142,613 0		202,046 0		9,539 0	8,418	
23			No.		7 2	. 00	2	87 8° °	3 - 83 :	23	1,561	63	1,628	<del>-</del> :	3.5		9
65	-		Maximum Length.	Ft. In.	300 0 510 0	510 0				:	1,870 0	0.70	:	0 004	0 054	1,207 0	ලි දි
51		Total.		Ft. In.	80 0 290 0	21 0				:	30 08			2 G 2 G	0 ##	. 68 	0 00
20			Aggregate Minimum Length.	Ft. In.	615 0	0 707.6	1,000 1,000	1202			15,705	16.727 0		1,775 0	ିଲ୍ଗ :	6,338 0	150 0
19	GES.		No.		च चांद	12;	٠ 	<u>1</u>	7e : 88	161	X 33 6	9 68	1,827	<del>7</del> € +	न देश ७० ३	96	· m
18	BRIDGES		Maximum Length.	Ft. In.	510 0			150 0				348 5					
17		COMBINATION.		Ft. In.	481 0			150.0	a : :			140 0	40 0				
16		COMB	Aggregate Minimum Length.	Ft. In.	991			150 0	: :			9.183 0	17,731				
15			No.		©17				2 : :		:	155	38				
]4		Name of Railway.			1 Alberta Railway and Irrigation Co	Atlantic and Lake Superior	6 Bedlington and Nelson.	6 Brandon, Saskatchewan and Hudson Bay. 9 British Yukon.	10 Brockville, Westport and Northwestern 11 Bruce Mines and Algoma 12 Canada Southern	Ö	15 Frince Edward Island	17 Canadian Northern, Ontario	19 Canadian Pacific.	29 Cape Breton. 21 Caraquet.	22 Carillon and Arenville 23 Central Ontario. 24 Crowsnest Southern.	25 Cumberland Kailway and Coal Co 26 Dominion Atlantic.	28/Elgin and Havelock
1		•	пэдшиХ			.0 <del>-11</del> F	J & 1	~w & ;	377	<u> </u>	251	3.00	5.7	ಷನಾ	N K K	20 E	282

Table 14.—Summary of Bridges, Trestles and Tunne's for the Year ending June 30, 1910—Continued.

		<i>-</i>						<u>.</u>		GEC		- V.,	A. 1	-
		Maximun length	Ft.	133 627 6		922		<u></u>	25 55 85		585			200
STLES.	ii)	Minimum length.	Ft. In.	24 0 0	13 0	0 SF		32 0	g, 9		26 0			
TRE		Argregate length.	Pt. In.	1,634 0 5,619 0	6,245 0	478 0 2,139 0		2,965 6	1,031 0 350 0	:	:			2,290 0
		, oN		22 %	- 66 - 66 - 7	?\ <u>#</u>		2 :	10	:	GI	7-3		- <u>1</u> 2
		Maximum length.	Ft. In.	6,594 0	403 0	120 0	30 0	0 000			200 0		724 0 2<9 0	
	OTAL.	Minimum length.	Ft. In.	8 :	12 0		30 0	199	16	3 %	110 0		. 8 20 . 0 0	
in the state of th	1	Aggregate length.	Ft. In.	121,581 0 15,750 0	6,851 3		2,330 80 1,11	1,050	1,572	1,72 2,82 2,82 3,82 3,83 3,83 3,83 4,83 4,83 4,83 4,83 4,83	310 310	304 419	1,093 314	0 668
GES.	1	No.		1,446 130	139	141	77 - 5	<del>,</del> — m	9 -	<i>2</i>	61	= 7 5	: ::::::::::::::::::::::::::::::::::::	- 10
BRID		Maximum length	Ft. In.	539 0 1,053 0										
	INATION.	Minimum length.	Ft. In.	1100						215 0				
	Сомв	Aggregate length.	Ft. In.	3,877 0						245 0				
		1		71			: :		::			: :		:::
	Name of Railway.			Grand Trunk. (Can. Atlantic)	2 Halifas and Southwestern.	Hermond and Se Araches 5 Inverness Railway and Coal Co. 6 Irondale, Baneroft and Ottawa.	7 Kaslo and Slocan. 8 Kent Northern.	Noro Mon	quette) 3 Liverpool and Milton	5 Lotbinière and Megantic. 6 Maganetawan River.	Manitoulin and North Shore	9 Massawippi Valley. 0 Midland of Mantoba.	2 Montreal and Province Line. 3 Montreal and Verniont Junction	bel Morrissey, Fennie and Michel
	BRIDGES.  TRESTLES.	Name of Railway.  Combination.	Combination.  No. Aggregate Minimum Maximum Maximum No. Aggregate Minimum Maximum No. Aggregate Minimum Maximum No. Aggregate Minimum Maximum Maximu	Name of Railway.   Combination   Aggregate   Minimum   Maximum   No.   Aggregate   Minimum   Maximum   No.   Aggregate   Minimum   No.   Aggregate   Minimum   No.   Aggregate   Aggregate   In.   Ft. In.	Combination:   Toral.   Tora	Name of Railway.   Combination   No.   Aggregate   Italian   Ita	Name of Railway.   Combination   Aggregate   Minimum   Maximum   No.   Aggregate   Minimum   Maximum   Aggregate   Minimum   Maximum   Aggregate   Minimum   Maximum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Maximum   Aggregate   Minimum   Maximum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Aggregate   Minimum   Aggregate   Aggregate   Minimum   Aggregate   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Aggre	Combination   Maximum   Maximum   No.   Aggregate   Minimum   No.   Aggregate   Aggregate	Name of Railway.   Combination   Aggregate   Minimum   Maximum   No.   Aggregate   Minimum   No.   Aggregate   No.   No.	Name of Railway.   COMBINATION.   Aggregate Minimum Maximum Comman Maximum Maximum Maximum Maximum Maximum Maximum Maximum Comman Maximum Maximum Maximum Comman Maximum Maximum Maximum Comman Maximum Maximum Maximum Comman Maximum Maximum Comman Maximum Comman Maximum Maximum Comman Maximum Maximum Comman Maximum Maximum Comman Maximum Comman Maximum Comman Maximum Comman Maximum Maximum Comman Maximum Maximum Comman Maximum Comman Maximum Maximum Comman Maximum Maximum Maximum Maximum Comman Maximum Maxi	Name of Italiway   Combination   Maximum   Maximum   No.   Aggregate   Minimum   Maximum   Maximum   No.   Aggregate   Minimum   No.   Aggregate   Minimum   No.   Aggregate   Minimum   Maximum   No.   Aggregate   Minimum   No.   Aggregate   A	Name of Railway.   Command   Maximum   Maximum   No.   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   No.   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Aggregate   Minimum   Minimum   Aggregate   Minimum   Minimum	Name of Railway,   Commany   Commany   No.   Aggregate Minimum   Maximum   No.   Isogeth   Iso	Name of Railway.   Commany   Commany   No.   Aggregate   Minimum   Maximum   Max

		0.000	6.1	0.01
SESS	IONAL.	PAPER	No.	20b

	No.	200			
:00:::::::	:0	0000:::	: : : • • : : : :	:00:::::::	
312 300 500 107	27°	1,001	280	4, 255 520	
	0	0000 : :		.00 : : : :	-
15:	: 20	2887 : : :	1 : : : : : : : : : : : : : : : : : : :	[ ] : : : [ ] × [	
	:				
	87				
5,291	· <del></del>	50 1,139 3,890 1,521	4,556	935	
: ' : : : : : : : : : : : : : : : : : :	:		::: ::::		_ '
<u>:42</u> : : . : :	: -	-1283 x : : :	7 : : : : : : : : : : : : : : : : : : :	. E	
	:		_::::	: : :   -	
0:0::	==			:	
55.	 168	9639	# :286 : . : . : . : . : . : . : . : . : . :	418	
	:				
0 0 : : : :	0	000 1 1 1		<u>:= : : : : : : : : : : : : : : : : : : </u>	
13 17 17 18	253	ន្ទនាន : : : : :	300 : 18 : 5	:8 : : : : :	
	: 21				
900000	:		: : : : : :		-
		1 : :	0 31 GW46	ا و ا و	
255 580 1,113 1,035 1,938 1,998 70 100 2,606	722	1,230 3,727 4,745 1.55	580 580 580 2,545 11,401 795	3,196	
• : •	: _	_ : : '		1 1 1	
∞21∞r-21 : c1 : r3	:01	12871	- :0 :0 <u>:0 :0 :</u>	133	3
<u> </u>	:				2
	: :		0 : : :		.
	: :		:::::::::::::::::::::::::::::::::::::::		
	: :				
	: :				.
	: :				
	: :	. : : : : : : :		: . : . : . :	.
	: :				
	: :		· · · · · · · · · · · · · · · · · · ·	0 9	-
				26 0	
			3,041 0		
				1 56 0	
				000	
000	Co	°CO		000	
vay Co	ry Co	wer Co.	11 3,041	000	
ailway Co sland. Co.	uarry Co	Power Co.	11 3,041	000	
d. Railway Co. I. Island. I. sm.	1 Quarry Co	nd Power Co nn. outhern	11 3,041	000	
pard Island Island thern	and Quarry Co	tr and Power Co. John 1 Southern	11 3,041	000	
heppard heppard oal and Railway Co outhern Southern pissing and Coal Co	'ay and Quarry Co	ight and Power Co. St. John and Southern n. rt. rrora	11 3,041	000	
tetion  T. Sheppard.  C. Coal and Railway Co.  Southern  ter Southern  I. Nipissing.  el and Coal Co.  in N. W. York.	ollway and Quarry Co	y, Light and Power Co- ke St. John eal and Southern Oyan. Albert.	11 3,041	000	
Junction Fort Sheppard. Fort Sheppar	; Railway and Quarry Co	way, Light and Power Co. Lake St. John untreal and Southern un. I Noyan. d Albert. und Aurora.	11 3,041	000	
Ile Junction  and Fort Sheppard.  suswick Coal and Railway Co.  suswick and P. E. Island.  sunswick Southern  stuinsver Southern  orie.  stand Nipissing.  that Steel and Coal Co.  fountain.	nurg Railway and Quarry Co	Adilway, Light and Power Co. Ind Lake St. John Montreal and Southern mtain, and Abert. Fr and Abrora.	11 3,041	000	
rville Junction  n and Fort Sheppard.  Brunswick Coal and Railway Co.  Brunswick and P. E. Island.  Brunswick Southern  Westminster Southern  Shore.  Jishore.  Scotia Steel and Coal Co.  I Mountain.	psburg Railway and Quarry Co	ee Eailway, Light and Power Co. ee and Lake St. John Wontreal and Southern Wountain. nd and Nyan. nd Albert.	11 3,041	000	T COURTS.
apierville Junction  shon and Fort Sheppard  w Brunswick Coal and Railway Co.  w Brunswick and P. F. Island.  w Westminster Southern  reth Shore.  sebonsing and Nipissing.  ya Social Steel and Coul Co.  yar Scotial Steel and Coul Co.  ford Mountain.	illipsburg Railway and Quarry Co	abee Railway, Light and Power Conselve Railway, Light and Power Conselve and Lake St. John About and Montreal and Southern Atland and Noyan. Ilsbury and Albert. In Aurora.	11 3,041	000	
55 Napierville Junctiou  57 Nelson and Fort Sheppard 58 New Bennswick Cool and Railway Co 59 New Bennswick and P. E. Island. 60 New Bennswick Southern 61 New Vestminster Southern 62 Nove Shorie 63 Nosbonsing and Nipissing. 63 Nova Scotia Steel and Cool Co 65 Orford Mountain.	67 Phillipsburg Railway and Quarry Co	70 (Juchee Reinlay, Light and Power Co. 71 (Juchee and Lake St. John. 72 (Juchee, Montreal and Southern. 73 Ked Mountain. 75 Hed Mountain. 75 Salisbury and Albert. 75 Salisbury and Albert. 76 Schmiberg and Aurora.	Chambly. dack tumbia. 11 2,041 ern Ontario. Buffalo.	erry Co. 1	

TABLE 14.—Summary of Bridges, Trestles, and Tunnels for the Year ending June 30, 1910.—Continued.

33 34 35 36 37 38 39	Overhead Highway Crossings.	es. Conduits. Trestles. Total.	of lowest of lowest No. of lowest above rail.	t. In. Feet. In. Feet. In. Feet. In. Feet. In. 22 0 3 18 9 16 6 5 20 5 16 8 71 15 8 16 0 16 0 16 0 16 0 16 0 16 0 16 0 16
32		Bridges.	No.	Feet. 1 23 1 23 1 25 1 25 25 25 25 25 25 25 25 25 25 25 25 25
30	79		Un. Suarded.	63 61 61 71 71 71 71 71 71 71 71 71 71 71 71 71
ક્ષ	LYTH CROSSINGS		Guarded.	6. 6. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
28	74.1	٠	No.	65 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
57		Name of Railway.	Zumber.	1 Alberta Railway and Irrigation Co. 2 Algoma Central and Hudson Bay. 3 Atlautic and Lake Superior. 4 Atlantic, Quebee and Western. 5 Bay of Quinté. 6 Bachington and Nelson. 6 Bechington and Nelson. 7 Bessemer and Barry's Bay. 8 Brandon, Saskatedhewan and Hudson Bay. 9 British Yakon. 10 Brockville, Westport and Northwestern. 11 Bruce Mines and Algoma. 12 Canada Southern. 13 Intereloinal. 14 Prince Edward Island. 15 Canadian Northern, Quebee. 15 Canadian Northern, Quebee. 16 Canadian Northern, Quebee. 17 Canadian Northern, Quebee. 18 Canadian Northern, Quebee. 19 Caraquets. 20 Caraquets. 20 Caraquets. 21 Carrillon and Grenville. 22 Central Ontario. 23 Crowsnest Southern. 24 Cunherland Railway and Coal Co. 25 Dominion Adantic.

	AL PA															
: :99 :	٠: :	. : :	:::10	. =	۰.	::	÷1	::		? :		:	: :	= : .		۰
្ត ខ្លួន	2		]	: 8	9		17			2 :		: :		ିମ ମ		22:
	::	:::	: :			: :	:	: :								
150	- :	::		-	7		-	::	::0	1 :		::	: : :	-		्रा
												: :		: ::		
3 : :	<u>ء</u> : :	: : :		::		: :		: :	: :	::	: :	: :	: : :	: : :		
	23				1.9			: :	: :			: :				::2 :
						: :			: :			: :	: : .	: : : :		
180	- : :	: : :		::	7 :	: :	: :	: :	: :	: :	: :	: :	: : :	: : :		: : 21 :
: ::	:::	::::	: : :	::	: :	: :		: :	: :	: :	: :	: :	: : :	: :		
								::	: :							
						: :		: :	. :	: :	: : :	: :		: : :		
<u> </u>		: : :		::	• : :	::		: .	: :	: :	: : :	::	<u>: : : : : : : : : : : : : : : : : : : </u>	: : :		
					: : :			: :	: :-	i :	:	: :			· · · · · · · · · · · · · · · · · · ·	: : : :
		: : :				::		::	: :			1 1	: : :			: : : :
							: *1	::		:						
16 : 20 :			92	12	: : :		11			<u>ና</u> :			: : :	<u>୍</u> ଷ୍		
	: : :	: :		:	: : :	: :		::	: :			::	: : :	<u>::</u>	: : : :	: : : :
137				:								::				
:: :: ::	<u> </u>	<u> </u>	64.55.65	:	H 5. 1	::	- න භ	: : e : :	: : x •	<u> </u>		: : ++ · c	ਹ <del>ਜ</del> ਼			0 01 00
3,057 283	Star w	10	\$100 mg	21	: en	,-	-010	18	≎i : 6	:1 m =	- eo :	<u></u> :	:	9	:2723 :	61-
									:		:	:	:	:	:	
:			. 00	- च्या द	. 0	- 01	· ເວ -	00 01	:			:	<u>:</u> .			-01
30 30 30 30			: :	. ,		:				:						
			::			:				:		: :			: :	
:5:6:1	8 11 8 8 11 8	<u>.</u>		्र क्टूबर्ड	1 15 C.	<u>- 25</u>	- 23 23	68	<u>.</u>	761	227 :	- · ·	٠ <u>٠</u> ٠٠	. <u> </u>	:01:13°	07187
	29			53				= .	:		:		:			
<u> </u>											:	:				
		: :				: :			: :	::		::				
																* * * * * * * * * * * * * * * * * * * *
				,e)												
				uette).												
				arquette).											0	
				e Marquette).							by Co			00	r Co.	
(0)		30		Père Marquette).					ion		ilway Co.		0	wry Co	ower Co.	
antic).		val Cottawa		ver (Père Marquette).		ore	Sat Co.	ne	unction		Railway Co.	arn	sal Co.	Quarry Co	id Power Co.	
ibia Atlantic).	tern.	d Coal Cod Ottawa		River (Père Marquette).	nley.	Shore	T Cosat CO.	c e Line	tt Junction	De	and Railway Co.	uthern	sing. Coal Co.	k and Quarry Co	t and Power Co. John Southern	11.
olumbia. Sk. wda Atlantic). fic.	western Martins	r and Coal Co	y.	troit River (Père Marquette).	Stanley.	orth Shore	Authorities (Authorities (Autho	antic	mont Junction	Couche	orl and Railway Co	Southern	ipissing.	York vay and Quarry Co	Light and Power Co. St. John and Southern	m ert, urora.
n Columbia clock Canada Atlantic).	outhwestern. St. Martins.	way and Coal Coroft and Ottawa	r. Talley. Penhmoke	es. Detroit River (Père Marquette).	ort Stanley Megantic	River. 1 North Shore.	way and Coal Co	Atlantic Province Line	Vermont Junction	Suctouche	the Siller Petru. Record and Railway Co. Rend P. E. Island	k Southernster Southernster Southernster Southernster	d Nipissing teel and Coal Co	am York all Quarry Co	y, Light and Power Co- ke St. John	Voyan Albert 1 Aurora
itisil Columbia. Havelock. mk (Canada Atlantic). nk Pacific	d Southwestern and St. Martins	Railway and Coal Co Sancroft and Ottawa.	hern. er Valley. nd Pembroke	Mines. and Detroit River (Père Marquette).	d Port Stanley.	van River. Land North Shore.	is all coat co	and Atlantic and Province Line	and Vermont Junction	nd buckouche	swick Coval and Railway Co swick and P. E. Island	swick Southern minster Southern	g and Nipissing. Is Street and Coal Co.	d New York.  g. Railway and Quarry Co	ntral alway, Light and Power Co. 1 Lake St. John outreal and Southern	nd Noyan and Albert.
ı British Columbız. İnd Havelock. Trunk. (Canada Atlantic). Trunk Pacific.	c and Southwestern. on and St. Martins.	ess Railway and Coal Co le, Bancroft and Ottawa	forthern. Swer Valley. m and Penimike	ke Mines. rie and Detroit River (Père Marquette).	and Port Stanley.	etawan River.	the teahway and coad comments and the teahway and coad comments and coad coad coad coad coad coad coad coa	aal and Atlantic	al and Vermont Junction	on and Euctouche	and Folia Sur-pland, runswick Coal and Railway Co runswick and P. E. Island	runswick Southern Gestminster Southern	Shore- sing and Nipssing cobia Steel and Coal Co.	Mountain a and New York sburg Railway and Quarry Co	Central Railway, Light and Power Co. and Lake St. John Montreal and Southern	outrian. d and Mygan rry and Albert. berg and Aurora.
stern British Columbia.  rin and Havelock.  rin Canada Atlantic).  nd Trunk Pacific.	lifax and Southwestern inpton and St. Martins.	erness Railway and Coal Co indale, Baneroff and Ottawa.	nt Northern.  ttle River Valley.	nighte Mines.  Referend Detroit River (Pere Marquette).	of post and Megantic	ganetawan River. Initotlim and North Shore afting Deline and Coal Coal	seawipi Valley. Iland of Namioha	ntreal and Atlantic.	ntreal and Vermont Junction	necton and Euctouche.  piervills Juneton.	us and k of some plant.  W Brunswick and P. E. Island.	w Brunswick Southern w Westminster Southern	from Shoring and Nipissing va Scotia Steel and Coal Co.	ord Mountain  awa and New York  illipsag Railway and Quarry Co	process the state of the state	a Aroundan isbury and Albert ionberg and Aurora
26 Eastern British Columbia. 27 Elgin and Havelock 28 Grand Trunk 29 " (Canada Atlantic). 30 Grand Trunk		34 Inverness Railway and Coal Co 35 Frondale, Bancroft and Ottawa.	38 Kettle River Valley.	40 Klondike Mines. 41 Lake Eric and Detroit River (Père Marquette).	43 London and Ports Stanley. 44 Loubinière and Megantie.	45 Maganetawan River. 46 Manitoulin and North Shore. 17 Monthus Dethamad Coal Co.	48 Massawippi Valley 49 Midand of Mamtoha	50 Montreal and Atlantic 51 Montreal and Province Line	52 Montreal and Vermont Junction 53 Morrissry, Fernie and Michel	54 Moneton and Euchouche. 55 Napierville Junction. 75 Napier and Four the	oo seesmant een sneppart. 58 New Brunswick Coal and Railway Co. 58 New Brunswick and P. E. Island.	59 New Brunswick Southern 60 New Westminster Southern	M. North Shorts 62 Nosbonsing and Nipissing. 63 Nova Scotia Steel and Coal Co.	04 Orlord Mountain 65 Ottawa and New York Chillipsburg Railway and Quarry Co	68 Quebec Central 69 Quebec Railway, Light and Power Co. 70 Quebec and Lake St. John 71 Quebec, Montreal and Southern	Tal kuchand and Noyan Tal kuchand and Albert Schoniberg and Alvert

1 GEORGE V., A. 1911

Table 14.—Summary of Bridges and Trestles and Tunnels for the Year ending June 30, 1910 - Continued.

38		Total.	Height of lowest above rail.	Feet In.	1 18 0 20 0 0 17 1 2 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
37			N. O.	~	
36	CROSSINGS.	Trestles.	Height of lowest above rail.	Feet In.	S 6
35	WAY (		No.		1
34	Overhead Highway Crossings.	Conduits.	Height of lowest above rail.	Feet In.	
23	OVER	ට්	N S		
35		Bridges.	Height of lowest. above rail.	Fect In.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
32		<u> </u>	No.		
, e		i.	Un- guarded.		18, 88, 83, 93, 93, 93, 93, 93, 93, 93, 93, 93, 9
66		VEL CROSS	Guarded.		1,1399
	-	2	ė		55. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
10		Name of Railway.	Zumber.		76 Stanstead, Shefford and Chambly 77 St. Clair Tunnel. 78 Lawrence and Adirondack. 79 Stokane and Britch Columbia. 79 Shokane and Britch Columbia. 79 Stokane and Britch Columbia. 79 Strenskaming and Northern Ontario 78 Tennskaming and Northern Ontario 78 Tennskaming and Northern Ontario 78 Tencouver, Octoria and Buffalo 78 Vancouver, Octoria and Eastern. 78 Victoria and Sidney 78 Victor

SESSIONAL PAPER No. 20b

Table 14.—Summary of Bridges, Trestles and Tunnels for the Year ending June 30, 1910- Continued.

1											
201	40	#	-15	13	44	45	46	47	48	49	25
i—11				OVER	Overhead Railway Crossings.	WAY C	ROSSINGS.			Ě	
	5 6	   ਸ਼ੁ	Bridges.	Coi	Conduits.	Tr	Trestles.	<u> </u>	Totals.	<del>-</del>	SORES.
Zumber,	Name of Kallway.	No.	Height of lowest above rail.	No.	Height of lowest above rail.	No.	Height of lowest above rail.	No.	Height of lowest above rail.	No.	Height of lowest above rail.
			Ft. In.	•	Ft. In.	~ .	Ft. In.		Ft. In.		Ft. In.
	Alberta Railway and Irrigation Co 2 Algonia Central and Hudson Ray 3 Atlantic and Lake Superior 4 Atlantic and Lake Superior 5 Batlantic and Western 5 Bay of Quinte 6 Bedlington and Nerts Bay. 7 Bessener and Barry's Bay. 8 Brandon, Saskatchewan and Hudson Bay. 9 British Yukon. 10 Brocekville, Westport and Northwestern 11 Brocekville, Westport and Northwestern 12 Canada Southern 13 Canadian Government Railways—Intercolomal 14 Canadian Northern, Ontario. 15 Canadian Northern, Quebec 16 Canadian Pacific. 19 Carlon and Grenville 20 Cappe Breton 21 Caraquet 22 Central Ontario. 23 Crowsnest Southern 24 Cumberland Railway and Coal Co 25 Dominion Atlantic 25 Eastern British Columbia.	1 3 C1	8		21 0		· · · · · · · · · · · · · · · · · · ·	-t- :01 - :01-1 - :00 -	22 24 4 23 24 4 24 0 0 0 0 0 0 0		9 6 · · · · · · · · · · · · · · · · · ·

Table 14.—Summary of Bridges, Trestles and Tunnels for the Year ending June 30, 1910—Concluded.

20	Tunnels,		Height of lowest above rail.	Pt. In.	
49	T		No.		
84		Total.	Height of lowest above rail.	Ft. In.	19 0 23 0 30 0
t-			No.		. S. 7
46	ROSSINGS.	Trestles.	Height of lowest above rail.	Ft In.	13. 8.
45	VAY C	E	No.		ก
44	OVERHEAD RAILWAY CROSSINGS.	Conduits.	Height of lowest above rail.	Ft. In.	25 E
43	OVERI	ا ق 	No.		
42		Bridges.	Height of lowest above rail.	Ft. In.	୨୦ କ୍ରିଷ
11:		B	No.		5.4
40		Name of Railway.	Zumber.		27 Elgin and Havelock. 28 Grand Trunk. 29 Grand Trunk, (Canada Atlantic). 30 Grand Trunk Pacinic. 31 Halifax and Soulwestern. 32 Hampton and St. Martins. 34 Inverses Railway and Coal Co. 35 Trondale, Bancroft and Ottawa. 36 Kaslo and Slocan. 37 Kent Northern. 38 Kingston and Pembroke. 39 Kingston and Pembroke. 39 Kingston and Petroft River (Père Marquette). 41 Lake Erie and Detroft River (Père Marquette). 42 Liverpool and Milton. 43 London and Port Stanley. 44 Lotbinière and Megantic. 45 Magnetawan River. 46 Manitoulin and North Shore. 46 Manitoulin and North Shore. 46 Manitoulin and Atlantic). 48 Massiwippi Valley. 49 Markinghi Valley. 40 Mantical and Atlantic. 51 Montreal and Province Line. 51 Montreal and Pervince Line.

SESSIONAL PAPER No. 20b	
	:   :
	9.2
	:
6	
6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
::::::::::::::::::::::::::::::::::::::	:   00
	1
	-   :
	9
	:   :
	: 12
Φ	
<u> </u>	
10	137
	: :
	al
ichel  Railway  I. Island  r.  Guarry C  Quarry C  Authern  uthern  rn Ontari  uffalo  Eastern	Final tota
Chelling State of the state of	'ina'
Minimum Minimu	. 1-1
and conditions of the condition of the c	
Bucourists and and and and and and and and and and	
and delegate and d	
issey to a partial par	
53 Morrissey, Fernie and Michel. 54 Moncton and Buctouche. 55 Napierville Junction. 55 New Brunswick Southern. 55 New Brunswick Southern. 55 New Brunswick Southern. 56 New Brunswick Southern. 57 New Brunswick Southern. 58 New Brunswick Southern. 58 New Brunswick Southern. 59 New Brunswick Southern. 60 Nosbonsing and N. Jensen. 61 North Shore. 62 Nova Scotia, Steel and Coal Co. 64 Orton Mountain. 63 Outawa and New York. 63 Phillipsburg Railway and Quarry Co. 64 Orton Mountain. 65 Phillipsburg Railway and Quarry Co. 65 Phillipsburg Railway Light and Fower To. 66 Uuebec Railway, Light and Power To. 67 Princeton Branch. 68 Quebec Central. 69 Quebec Central. 69 Quebec Central. 69 Quebec Railway, Light and Power To. 61 Chebec Railway, Light and Power To. 62 Lash Mountain. 63 Quebec Cantral. 64 Quebec Cantral. 65 Clair Tunnel. 65 Schonnberg and Aurora. 66 Schonnberg and Aurora. 67 Stanstead. Shefford and Chambly. 68 Lawrence and Alixish Columbia. 68 Sylvaey and Louisburg. 68 Temiskaming and Stirky. 68 Vancouver Copper Co. 68 Vancouver Copper Co. 68 Vancouver Copper Co. 68 Victoria and Sidney. 68 Victoria Terminal Railway and Fee St. 69 Verk and Carleton.	
53 Morrissey, Fernie and Michel. 54 Moncton and Buctouche. 55 Napieville Junction. 55 Napieville Junction. 56 Neison and Fort Sheppard. 57 New Brunswick Southern. 58 New Brunswick Southern. 58 New Brunswick Southern. 58 New Brunswick Southern. 59 Ne 3 Bunswick and P. F. Island. 51 Novik Shore. 63 Nova Scota, Steel and Coal Co. 64 Ordow and New York. 65 Novbersy Railway and Quarry Co. 65 Phillipsburg Railway and Quarry Co. 66 Phillipsburg Railway. 67 Princeton Branch. 68 Quebec Central. 69 Quebec Railway. Light and Power Co. 68 Quebec Montreal and Southern. 72 Red Mountain. 73 Runland and Noyan. 74 Salisbury and Harvey. 75 Schontberg and Aurora. 76 Stantead. Shefford and Chambly. 77 Stantead. Shefford and Chambly. 77 Stantead. Shefford and Chambly. 77 Stantead. Shefford and Chambly. 77 Stantead. Aurora. 78 Lawvence and Aurora. 78 Sturey and Louisburg. 89 Teurisconata. 81 Trounto, Hamilton and Buffalo. 85 Vancouver Copper Co. 86 Vancouver Copper Co. 87 Victoria and Sidney. 88 Victoria Terminal Railway and Ferr 89 Veitoria Terminal Railway and Ferr	
$20B-11\frac{1}{2}$	

Table 15A.—Summary of Accidents to Persons for the

A .- ACCIDENTS RESULTING FROM THE MOVEMENT

PASSEN

172	173	174	175	176	177	178	179	180	181	182
									KIN	D OF
Name of Railway.	-	OL-	DER. MEN		PAR O TRAI	F	Locomeron C OR C Brea Do	CARS	FAL FROMT LOC TIV OR C	RAINS. OMC- ES
Number,	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
1 Canada Sonthern Canadian Government Railways— 2 Intercolonial. 3 Canadian Northern. 4 Canadian Northern, Ontario. 5 Canadian Pacific. 6 Central Ontario 7 Dominion Atlantic. 8 Grand Trunk, in Canada. 9 Halifax and Southwestern. 10 Hereford. 11 Ottawa and New York. 12 Père Marquette, in Canada. 13 Quebec Central. 14 Stanstead, Shefford and Chambly. 15 Temiskaming and Northern Ontario 16 Vanconver, Victoria and Eastern. 17 Victoria and Sidney. 18 Wabash, in Canada.	2	1 2				2			1	1 1 1 2 2 2 1
Final total	2	31	44	126		2			3	28

Postal Clerks, Pullman Employees, &c.—Killed 1. Injured 20.

Year Ending June 30, 1910, showing kind of Accident.

OF TRAINS, LOCOMOTIVES OR CARS.

#### GERS.

						_						-=
183	181	185	186	187	188	189	190	191	192	193	194	
						·						

#### ACCIDENT.

JUMPI OR OFF	Trains,		ск ву Ті	Bains, Lo	COMOTIV		CARS.	Отнка	Causes.			
TIVES OF	R CARS.	Cross	GHWAY SINGS.	AT ST.	ATIONS.		RACK.					
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
	1			• • • • • • • • • • • • • • • • • • • •		i			1	1	2	1
1	4 7								9	1 1	15 28	2 3
4	18			1	3	1	2		16	52 1	157	5 6
·····i	1 9		·····i		1			1	6	1	$\begin{array}{c} 1\\30\\2\end{array}$	8 9
	i i								1		1	10 11 12
											1 9	13 14
1										1 1	7 9	15 16 17
	43		1	1		1	2	1	33		$-\frac{2}{270}$	18
	40		1	1	4	1	2	1	3.7	100	240	

### Table 15 B.—Summary of Accidents to Persons for

A. ACCIDENTS RESULTING FROM THE

EMPLOYEES-

									1751	PLOY.	EE55
_	1	2	3	4	5	6	7	8	9	10	11
										KIN	OF OF
	Name of Railway.	Coup o Uucou		Collis	sious.	Derail	ments.		tiug of ins.	or 6	notives Cars iking wn.
Number.		Killed	In- jured.	Killed	Iu- jured.	Killed	In- jured.	Killed	In- jur∈d.	Killed	In- jured.
1	Alberta Ry. and Irrigation Co		1								
2 3	Algoma Central and Hudson Bay. Bay of Quinté		1								
- 4	Brandou, Saskn. & Hudson Bay Cauada Southern		6	1							
6	Can. Gov't. Ry.—Intercolonial	1	10	3	4	3	1		1		
8	Prince Edward Island Cauadian Northern	2	12	3	1 15	1	3		2		
$\frac{9}{10}$	Canadian Northern, Ontario Canadian Northern, Quebec		2				2				
11	Canadian Pacific		52	3	16	11	11		2		8
13	Crowsnest Southern										
15	Grand Trunk (in Canada) (Cau. Atlantic Divn)	1	17 1	2		· · · · i					
16 17	Halifax and Southwestern Lake Erie and Detroit River		2		1						
18	Manitoulin and North Shore										
	Manitoba Great Northern Montreal and Atlantic										
	Montreal and Vermout Junction Morrissey, Fernie and Michel										
23	Napierville Junction										
	New Westminster Southern Ottawa and New York										····i
26	Père Marquette (in Cauada) Quebec Ceutral		2		8						1
28	Quebec and Lake St. John		3								
29 30	Onebec and Lake St. John. Quebec, Montreal and Southern Red Mouutain. Rutland and Noyau		1								
31	Rutland and Noyau										
33	Stanstead, Shefford and Chambly. St. Lawrence and Adirondack										
34	St. Lawrence and Adirondack Sydney and Louisburg Temiscouata		3								
36	Temiskaming & Northern Untario.		2								
	Toronto, Hamilton and Buffalo Vancouver, Victoria and Eastern.		5			$\frac{1}{2}$					
39	Wabash (in Canada)								• • • • • •		
	Final total	16	124	12	52	19	31		6		15
		1									

the Year ending June 30, 1910, showing kind of Accident.

MOVEMENT OF TRAINS, LOCOMOTIVES OR CARS.

### TRAINMEN.

12 ACCID	13 ENT.	14	15	16	17	18	19	20	21		etal 23
	g from ins, notives Jars.	off T Locon	ng on or rains, notives lars.	Tra Locon	ck by ins, notives 'ars.		erhead nctions.	Other	Canses.	t	dents o imen.
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed	Injured.	Killed	Injured.	Killed.	Injured.
	3						 		2	! 	$\frac{1}{6}$
									$\frac{1}{2}$		$\frac{2}{2}$
2	8		9		3				18	4	46
	2		3		1				9	7	31
1	14		11	5	2		· 1		19	12	79
	2				1				2		2 7
8	27	10	18	7	15	1	9	4	34	52	192
	·····i		3						2	1	6
4	36	2	6	5	6		5	1	20	16	103
	$\frac{4}{1}$		1	1			1		3	3	10
		1								1	1
	1								1	1	2
	1		1								2
• • • • • • •	1							1.	3		$\frac{1}{3}$
1										1	
									1		1 3
	$\frac{1}{2}$	1	1						3		17
	1								1		2
								. )	2		5 1
											1
	1										$\frac{1}{7}$
	1		1								í
	1								3		4
	5	1							4	1	9 11
	2		1				2			1	8
	1		-1						17	2	32
	2				1				3		6
16	120	15	60	18	29	1	18	6	155	103	610

## Table 15 C .-- Summary of Accidents for the Year

A. ACCIDENTS RESULTING FROM THE MOVEMENT

EMPLOYEES-

		_						EM	PLOY	E.E.S-
97	98	99	100	101	102	103	104	105	106	107
									KIN	D OF
Name of Railway.		ling or upling.	Colli	sions.	Derail	ments.		ing of	or ( brea	notives Cars king wn.
Nunber.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
1 Canadian Southern		1	1	2	4	2				
					7	FABLI	E 15, I	)—EM	PLOY	EES-
1 Can. Govt. Ry.—Intercolonial 2 Canadian Pacific 3 Grand Trunk 4 Massawippi Valley 5 Père Marquette		1 1 2								
		TAB	LE 15,	Е-Е	MPLO	YEES	-SWI	TCH ?	rendi	ERS,—
1 Canadian Northern. 2 Canadian Pacific 3 Grand Trunk. 4 Manitoulin & North Shore. 5 Sydney & Louisburg. 6 Toronto, Hamilton & Buffalo. 7 Vancouver, Victoria & Eastern. Final total.	1									

ending June 30, 1910, showing kind of Accident.

OF TRAINS, LOCOMOTIVES, OR CARS.

#### TRACKMEN.

108	109	110	111	112	113	114	115	116	117	118	119
CCID	ENT.										
Tra	otives,	Jumpi or Tra Locom or C	off ons, otives,	Tra	otives,		rhead uctions.	Other	Causes.	Total Action Trace and State	kmen
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Kulled.	Injured.	Killed.	Injured.	Kilied.	Injured.
2	1 4	4	2 8	13 6	3 3 1  11 3			6	1 4 2 41 1 1	33 7	5 4 11 2 75 6 1
1	3			2	1				4 2 5 1	1 24	$\begin{array}{c} 1 \\ 4 \\ 6 \\ 20 \\ 1 \end{array}$
3	19	4	11	26	22			6	62	70	136

#### STATION MEN.

4		 1	9 9
	1	 1 1	2
	1	1	$\begin{array}{c c} 1 & 4 \\ 2 & 5 \end{array}$
 1	1 2	 2 2	ь

### CROSSING TENDERS AND WATCHMEN.

i	$\vdots$	1	3		9		1	3 7	1 1 18 2
			3					1	4 3
		1						1	1 5
					1	 			1 6
				1		 			
1	2	2	7	3	5	 	1	4 9	25
-								1	

# Table 15 F-Summary of Accidents to Persons for the Year

A. ACCIDENTS RESULTING FROM THE MOVEMENT

							TAE	3LE 15	, F–E	MPLO	YEES
	25	26	27	28	29	30	31	32	33	34	35
							-			KIN	DOF
	Name of Railway.		ing or upling.	Collis	ions.	Derail	ments.		ng of ins.	Locon or C break dov	king
Number.		Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	d.	Injured.
23 4 5 ;;	Canada Southern Canadian Northern Cana lian Northern, Quebec Canadian Pacific Grand Trunk. Morrissy, Fernie & Michel. Père Marquette Temiskaming & Nort'hn Ontario.		1								2
1 1	Canadian Northern.						TAB	LE 15,	G-E	MPLO	YEES
20	Canadian Pacific	-									
							ТАВ	LE 15,	н-е	MPLO	YEES
3 4 5	Canada Southern Can. Govt. Ry.: Intercolonial. Canadian Northern. Canadian Northern, Quebec. Canadian Pacific Grand Trunk		2 1 			2	2		· · · · · · · · ,		
8 9 10 11 12 13 14 14 14 15	Grand Trunk.  (Can. Atlantic).  Halifax & Southwestern.  Hereford.  Lake Erie & Detroit River.  Montreal & Atlantic.  Père Marquette.  Quebec & Lake St. John.  Sydney & Louisburg.  Femiskaming & North'n Ontario.  Vancouver, victoria & Eastern.			1	1						
17	Wabash, in Canada		5	1	2	2					2

ending June 30, 1910, showing kind of Accident.

OF TRAINS, LOCOMOTIVES, OR CARS.

### -SHOPMEN.

36	37	38	39	10	41	42	43	44	4.5	46	47
CCIDI	ENT.		•						-	Total Ac	men.
Falling Tra Locom or C	otives	Jump or Tra Locom or C	off ins, otives,	Tra Locom	ek by ins, otives, Cars.	Over Obstru	rhead actions	Other	Causes.	Telegrand and other Em	raph d
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
	$ \begin{array}{c} 2 \\ 1 \\ \vdots \\ 6 \\ 1 \end{array} $		3	1	1 3 1			2	ii	3, 1	3 1 1 2 28 2 4 1 1 5 8 1 1 8 8 1 1 1 1 8 8 1 1 1 1 8 8 1 1 1 1 8 8 1 1 1 1 8 8 1
					1		· · · · · · · · · · · · · · · · · · ·		1		1 8
	10		3	1	7		2	3	16	4	41
-TELE	10 GRAPH	EMPL	augress.	1	7		2			4	41
-TELE		EMPLO	augress.	1	7			3	16		41
	GRAPH		OYEES.	1	7			3	1		1 2 :
	GRAPH		OYEES.	1 4	22		2		1 1 3	2 2 4	1 2 3
	GRAPH  2 2 CR EMP		OYEES.		2 1				1 1 3	2 2 4 12	1 2 3
-отне	GRAPH		OYEES.	1 4	2 1 1				1 3 3	2 2 4 1	11 3 5 3 49 17 2
-отне	GRAPH		OYEES.	1 4	21 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			3 1	1 1 3 2 2 2 5 1		11 22 3 3 5 5 3 49 17,7 22 1 1

#### TABLE 15 I.—SUMMARY of Accidents to Persons for the

A. -ACCIDENTS RESULTING FROM THE MOVEMENT

#### OTHER PERSONS-

		_										
	195	196	197	198	199	200	201	202	203	204	205	
		KIND OF										
	Name of Railway,		Col- lisions.		Derail- ments,		Parting of Trains.		Locomotives or Cars Breaking Down.		Falling from Trains, Locomotives or Cars.	
Number.		Killed.	Injured.	Killed.	Injured.	Killed.	Injured	Killed.	Injured.	Killed.	Injured.	
	Canada Southern											
	Canadian Govt. Ry.—Intercolonial.									1		
	Canadian Northern, Ontario											
5	Canadian Northern, Quebec											
6	Canadian Pacifie		1							11	1	
1	Dominion Atlantic		1							· · · · · ·	1	
	Grand Trunk (Canada Atlantic)										1	
10	Halifax and Southwestern									1		
11	Hereford											
12	Lake Erie and Detroit River											
13	Maritime Railway and Coal Co Montreal and Atlantic											
15	Morrissey, Fernie aud Michel										1	
16	New Westminster Southern											
	Père Marquette											
	Quebec Central Quebec and Lake St. John											
20	St. Lawrence and Adirondack	1										
21	Sydney and Louisburg											
-22	Temiskaming and Northern Ontario											
23	Vancouver, Victoria and Eastern			1		1.00.00					1	
24	**************************************											
	Final total		2	1	5					13	4	
					1	]					-	

Year ending June 30, 1910, showing kind of Accident.

OF TRAINS, LOCOMOTIVES OR CARS.

#### TRESPASSING.

206	207	208	209	210	211	212	213	214	215	216	217	
ACCIDI	ENT.											
Jump- or off	ing on Frains,	Stru	ек ву Тв	rains, Lo	осомотіv	ES OR	CARS.	Other	Causes.		tal ents to ther	
Locomotives or Cars.		At Hi Cross	ghway ings.	At Sta	ations.	Poin	other ts along rack.	Outer Causes.		Perso Trespa		
Killed.	Injured.	Kulled.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
	1	1	1	6	5	3	4	1		4 7 5	2 9 4 1 1	1 2 3 4 5
5	11 12	8	5	12	3	36  50 3	14 1 31 2	$egin{array}{c} 2 \\ 2 \\ \cdots \\ 2 \\ \end{array}$	5 1	78 58 3 3	50 1 53 2 5 2 5 2	6 7 8 9 10 11 12
	1					1 3 1	2			1 3 1	1 1 2 1	13 14 15 16 17 18
	1					3 1 4	1 1 1 1 2	1	1 1 1 2	3 1 4 1 3	1 1 2 1 2 5	19 20 21 22 23 24
14	26	9	17	19	18	111	62	8	14	175	148	

# Table 15 J.—Summary of Accidents to Persons for the

A .- Accidents Resulting from the Movement

OTHER PERSONS

_												
	218	219	220	221	222	223	224	225	226	227	228	
	Name of Railway.	, KIND OE										
Number.		Collisions.		Derail- ments.		Parting of Trains.		Locomotives or Cars Breaking Down.		Falling from Trains, Locomotives or Cars.		
		Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	
2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Canada Southern Canadian Government Railways— Intercolonial Prince Edward Island Canadian Northern Canadian Northern, Ontario Canadian Northern, Quebec Canadian Pacific Dominion Atlantic Grand Trunk (in Canada) Grand Trunk (Canada Atlantic) Kingston and Pembroke Lake Erie and Detroit River Montr-al and Atlantic Père Marquette Quebec and Lake St. John Thousand Islands Toronto, Hamilton and Buffalo. Vancouver, Victoria and Eastern. Wabash (in Canada).	1	1 6								2	
	Final total	1	7		1	• • • •					4	

Year ending June 30, 1910, showing kind of Accident.

OF TRAINS, LOCOMOTIVES OR CARS.

### NOT TRESPASSING.

											_	-
229	230	231	232	233	234	235	236	237	238	239	240	

### ACCIDENT.

Loc	oing on Trains, omo- r Cars.		ck by Ti		ocoмотіv		other ts along rack.	Other	r Canses.	Accid ot Person Tr	otal ents to her ns—not res- sing.
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
		4	3			1	1			5	   4
2	2	2 1 1 19	1 1 1	6	2	1	2	1	3	$\begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 31 \end{array}$	2 1 1 23
	4	18	1 18 1 3 1	1		3		1	3 1	24	1 33 2 3 1
		1 1 1	1			•••••			1	1 1 1	2 1
2	6	54	44	7	$\frac{1}{3}$	8	4	2	8	74	77

TABLE 15 K .- SUMMARY of Accidents to Persons for the

B.-Accidents arising from Causes other than those Resciting

EMPLOYEES-STATION

									-	
243	244	245	246	247	248	219	250	251	252	253
				ST	CATIO	N ME	N.			
				Kı	ND OF	Accide	ENT.			
Name of Railway.	Hane Tra	lling	Hand Too Machi &	ols, inery,		dling olies, c.	Gettin or Locom or Ca res	off otives irs at	Otl Cau	
Number.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
Algoma Central and Hudson Bay Canada Southern Canadian Government Ry's— Intercolomal. Prince Edward Island. Canadian Northern. Canadian Northern, Quebec. Canadian Northern, Quebec. Canadian Pacific. Grand Trunk.  Lake Erie and Detroit River. Montreal and Atlantic.  Montreal and Atlantic. Ottawa and New York. Pere Marquette. Quebec Central. Quebec Central. Temiscouata Temiscouata Temiscouata Temiscouata Temiscouata Temiscouata Temiscouata Vancouver, Victoria and Eastern.		8 47 4							1	2
Totals		62		1		2			1	3

Year ending June 30, 1910, showing kind of Accident.

FROM THE MOVEMENT OF TRAINS, LOCOMOTIVES, OR CARS.

### MEN AND SHOPMEN.

254	255	256	257	258	259	260	261	262	263	264	265	266	267	
				**		SHOP	MEN.							
Acci	otal idents to				Kin	о ов А	.ccmxs	т.				Acci	otal dents	
Statio	on Men.	Hano Tra	dling	Te Mael	adling ools, ninery, cc.	Hand Supp	lies,	Gettin or Locon or Ca	off lotives irs at	Ot Cau	lier ses,	Shop	ome <b>n.</b>	
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number
		- • • •			1 43		2 2				$\frac{1}{2}$		4 50	ŀ
1	8 52		2		32 25		8	1	2 1 1		1 2 12 1 8 4 1 1	1	$ \begin{array}{c} 1 \\ 6 \\ 54 \\ 2 \\ 39 \\ 4 \\ 1 \\ 1 \end{array} $	1
	1				6 6 6 1		1				3 21		6 10 1 21 6	1 1 1 1 1 1
	1 1	• • • • •			$\begin{array}{c}2\\2\\3\end{array}$				2		1 2		2 3 7	1
1	68		2		134		16	1	6		60	1	218	

### TABLE 15 L.—SUMMARY of Accidents to Persons for the

B .- Accidents arising from Causes other than those Resulting

### EMPLOYEES-TRACKMEN

	268	269	270	271	272	273	274	275	276	277	278
					Т	TRACE	CMEN				
					Kis	SD OF 2	Ассира	NT.			
	Name of Railway.		dling iffic.				dling plies, c.	Locon	ng on off notives ars at st.	Otl Cau	
Number.		Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
3	Algoma Central and Hudson Bay Bay of Quinté. Brandon, Saskatchewan and Hud- son Bay.		1				2				$\frac{1}{3}$
5 6 7	Canada Southern. Canadian Government R'ys— Intercolonial. Prince Edward Island. Canadian Northern.				5  4		7 2 18		1	1	$\begin{bmatrix} 3 \\ \dots \\ 6 \\ 4 \end{bmatrix}$
11	" " Quebec				1 9	1	$\begin{bmatrix} 30 \\ 1 \\ 2 \\ 2 \end{bmatrix}$		1 1 1	53	2 24 1 2
14 15 16 17	" (Canada Atlantic)' Manitoulin and North Shore Manitoba Great Northern Montreal and Atlantic				1		1				1
$   \begin{array}{r}     19 \\     20 \\     21 \\     22   \end{array} $	Nelson and Fort Sheppard. Père Marquette. Quebec and Lake St. John. Quebec, Montreal and Southern. Stanstead, Shefford and Chambly St. Lawrence and Adirondack.						1 	i		1	1
24 25 26	Temiscouata				4		3				2
	Vancouver, Victoria and Eastern, Victoria and Sidney.  Totals		1		$\frac{1}{31}$	1	76		3	55	58

Year ending June 30, 1910, showing kind of Accident.

FROM THE MOVEMENT OF TRAINS, LOCOMOTIVES, OR CARS.

### AND OTHER EMPLOYEES.

279	280	281	282	283	284	285	286	287	288	289	290	291	292
					от	HER	EMPL	OYEE	S.				
Acc	otal idents					Kind (	оғ Асс	IDENT.				Ace	otal idents to
	kmen.	Hane Tra	lling tfic.	Mac	adling ools, hinery,	Supp	dling plies, c.	Locon or Ca	otives,		her ises.	Emp	her loyees.
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
	3 4				••••	 	1				3		4
i	$\begin{array}{c} 1 \\ 16 \end{array}$		····i		3		4			2	8	2	16
	8 26 1 2		3 8 2		1 2		2		3 11 1	1	1 8 9 3 7	1	8 11 29 3 11
54	64 3 4 2		11 2		24	1	15 2		6	17 1 1	$   \begin{array}{c}     45 \\     8 \\     1 \\     1 \\     1   \end{array} $	18 1 1	101 12 1 1
	1 1 3 2		1		2		1				1		3 1 2
1	1 2 4				1		1 1				1 1		1 3 1
	$\begin{array}{c} 9\\ \hline 10\\ 1\end{array}$		1		 1 1		3				9		1 14
56	169		29		35		31		22	22	107	23	224

### TABLE 15 M .- SUMMARY of Accidents to Persons for the

B.—Accidents arising from Causes other than those Resulting

### PASSENGERS AND

		_								
295	296	297	298	299	300	301	302	303	304	305
				P	ASSE.	NGER	s.			
				Kı	ND OF	Accide	ENT.			
Name of Railway.		dling	To Mach	dling ols, inery, c.	Supp	dling plies,	Locon or Ca	ng on off off notives urs at st.	Ot <sup>*</sup> Cau	her ises.
Number.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
1 Canada Southern			ļ [		• • • • •		••••			
2 Intercolonial									2	3
5 Grand Trunk								2		2
7 Manitoba Great Northern 8 Quebec Central 9 Thousand Islands										i
Totals								2	2	7

Year ending June 30, 1910, showing kind of Accident.

FROM THE MOVEMENT OF TRAINS, LOCOMOTIVES, OR CARS.

### OTHER PERSONS.

306	307	308	309	310	311	312	313	314	315	316	317	318	319	
			PULL	MAN	EMPLO EXPRE	YEES. SS MI	OTH ESSEN	ER PE IGERS	RSONS	SANI	)			
Acci	otal idents to				Kin	D OF 2	Accide:	NT.				Ace	otal idents to	
Passe	engers.	Han Tra	dling ffic.	To Mac	ndling ools, hinery, &c.	Hand Supp	dling olies, c.	Gettin or Locon or Ca	off notives ars at	Ot Car	her ises.	other	Persons.	
Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Number.
										1	2	1	2	1
2	3		1			1	1			1 4	3	$\begin{array}{cc} & 1 \\ 5 \\ 1 \end{array}$	5	3 4
	4										1		1	6
	1				i						1		1 1	7   8   9
2	9		1		1	1	1			7	7	8	10	."

### 1 GEORGE V., A. 1911 ELECTRIC

TABLE 1.—SUMMARY Statement of Description of Road, Mileage,

Berlin and Waterloo Berlin and Bridgeport Brantford and Hamilton British Columbia Calgary Municipal. Cape Breton Chatham, Wallaceburg and Lake Erie Cornwall Galt, Preston and Hespeler Leased Line—Preston to Berlin Grand Valley Guelph Radial. Halifax Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Street Hull. International Transit Co.	3 12 2 40 23 00 100 79 12 00 11 58 32 85 4 00 17 81 38 29 6 00 9 908	3 Length of Second Main Track.  50 30°81 4°00 1°36 1°95 3°094	Total Length of Main Track,  3 · 62 · 2 · 40 · 23 · 00 · 131 · 60 · 16 · 00 · 11 · 58 · 32 · 85 · 4 · 00 · 19 · 17 · · · · · · · · · · · · · · · · ·	38 10 05 50 29 2 00 2 50 7 25 119 33	4 000 2 500 23 000 24 4 6 50 26 42
Berlin and Waterloo Berlin and Bridgeport Brantford and Hamilton British Columbia Calgary Municipal. Cape Breton Chatham, Wallaceburg and Lake Erie. Cornwall. Galt, Preston and Hespeler Leased Line—Preston to Berlin Grand Valleyl. Guelph Radial. Halifax. Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Street. Hull. International Transit Co.	of Road, First Jain Track.  3 12 2 40 23 00 100 79 12 00 11 58 32 85 4 00 17 81 38 29 6 00 9 900 2 00 2 2 00 2 2 00 1 2 86	of Second Main Track.  '50  30'81 4'00  1'36 1'95 3:094	Total Length of Main Track,  3 · 62 2 · 40 23 · 00 131 · 60 16 · 00 11 · 58 32 · 85 4 · 00 19 · 17  40 · 24 6 · 60 0 13 · 002 2 · 00 25 · 00 22 · 00 22 · 00	Length of Siding and Turnouts.	Computed as Single Trac 4:00 2:50 23:00 141:65 6:50 26:42
Berlin and Waterloo Berlin and Bridgeport Brantford and Hamilton British Columbia Calgary Municipal. Cape Breton Chatham, Wallaceburg and Lake Erie. Cornwall. Galt, Preston and Hespeler Leased Line—Preston to Berlin Grand Valleyl. Guelph Radial. Halifax. Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Street. Hull. International Transit Co.	of Road, First Jain Track.  3 12 2 40 23 00 100 79 12 00 11 58 32 85 4 00 17 81 38 29 6 00 9 900 2 00 2 2 00 2 2 00 1 2 86	of Second Main Track.  '50  30'81 4'00  1'36 1'95 3:094	Length of Main Track,  3 62 2 40 23 00 131 60 16 00 11 58 32 85 4 00 19 17	of Siding and Turnouts.	Computed as Single Trac 4:00 2:50 23:00 141:65 6:50 26:42
Berlin and Bridgeport Brantford and Hamilton British Columbia Calgary Municipal Cape Breton Chatham, Wallaceburg and Lake Erie Cornwall Galt, Preston and Hespeler Leased Line—Preston to Berlin Grand Valley Guelph Radial Halifax Hamilton and Dundas Hamilton, Grinsby and Beamsville Hamilton Radial Hamilton Street Hull International Transit Co.	2:40 23:00 100:79 12:00 11:58 32:85 4:00 17:81  38:29 6:00 9:908 7:00 22:00 25:00 22:00	30°81 4°00 1°36 1°95 3°094	2 40 23 00 131 60 16 00 11 58 32 85 4 00 19 17 40 24 6 00 13 002 7 00 22 00 25 00 22 00	10 10.05 50 29 2 00 2 50 7 25 19 33 387	2:50 23:00 141:65 16:50 11:87 34:85 6:50 26:42 
Berlin and Bridgeport Brantford and Hamilton British Columbia Calgary Municipal Cape Breton Chatham, Wallaceburg and Lake Erie Cornwall Galt, Preston and Hespeler Leased Line—Preston to Berlin Grand Valley Guelph Radial Halifax Hamilton and Dundas Hamilton, Grinsby and Beamsville Hamilton Radial Hamilton Street Hull International Transit Co.	2:40 23:00 100:79 12:00 11:58 32:85 4:00 17:81  38:29 6:00 9:908 7:00 22:00 25:00 22:00	30°81 4°00 1°36 1°95 3°094	2 40 23 00 131 60 16 00 11 58 32 85 4 00 19 17 40 24 6 00 13 002 7 00 22 00 25 00 22 00	10 10.05 50 29 2 00 2 50 7 25 19 33 387	2:50 23:00 141:65 16:50 11:87 34:85 6:50 26:42 
Chatham, Wallaceburg and Lake Erie. Cornwall. Galt, Preston and Hespeler. Leased Line—Preston to Berlin. Grand Valley. Guelph Radial. Halifax. Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Street. Hull. International Transit Co.	32:85 4:00 17:81  38:29 6:00 9:908 7:00 22:00 25:00 22:00 12:86	1·36 1·95 3·094	32:85 4:00 19:17 40:24 6:00 13:002 7:00 22:00 25:00 22:00	2 00 2:50 7 25 19 33 :387	34 · 85 6 50 26 · 42 40 · 43 6 · 33 13 · 38 7 · 00 22 · 00 25 · 00 22 · 00 25 · 18
Leased Line—Preston to Berlin Grand Valley Greiph Radial. Halifax Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Street Hull. International Transit Co.	38·29 6 00 9·908 7·00 22·00 25·00 22 00 12·86	1 · 95 3 · 094	40°24 6°00 13°002 7°00 22°00 25°00 22°00	19 33 387	40 43 6 33 13 38 7 00 22 00 25 00 25 18
Halifax Hamilton and Dundas Hamilton, Grimsby and Beamsville. Hamilton Radial. Hamilton Street. Hull. International Transit Co	9:908 7:00 22:00 25:00 22:00 12:86	3.034	13 002 7 00 22 00 25 00 22 00	387	$\begin{array}{c} 13^{\circ}38 \\ 7^{\circ}00 \\ 22^{\circ}00 \\ 25^{\circ}00 \\ 22^{\circ}06 \\ 25^{\circ}18 \end{array}$
Hamilton Radial. Hamilton Street. Hull. International Transit Co	25:00 22:00 12:86		25:00 22:00		25:00 22:00 25:18
International Transit Co		10 00			
Kingston, Portsmouth and Cataraqui.	8:00 10:25		3.68 8.00 10.25	22	3:90 8:00 10:25
London. London and Lake Erie Railway and Transportation Co.	$\frac{25}{25} \cdot \frac{73}{73}$ $27 \cdot 50$	6:79	32 52 27 50	73 1:50	33·25 29·00
Montreal Park and Island Montreal Street Montreal Terminal	29·18 76·29 18·22	$\begin{array}{r} 16.01 \\ 59.17 \\ 4.66 \end{array}$	45°19 135°46	4 45 16:77 7:39	49°6- 152°23 30°27
Montreal and Southern Counties Niagara Falls Park and River Niagara, St. Catharines and Toronto	7 20 11 91 40 06	11.20	22·88 7 20 23 11 40 06	1·37 5·56	7 · 20 24 · 48 45 · 6:
Nipissing Central Oshawa Ottawa	5:10 7:81 23:40	20.64	5:10 7:81 44:04	3:55 3:55	5 · 5: 11 · 30 44 · 5
Peterborough Radial. Pictou County	5:10 7:90 10:00	9.00	5:10 7:90 19:00	142 20 25	5·2 8·1 19·2
Quebec Railway, Light and Power Co. (Citadel) Quebec Railway, Light and Power Co.	17:22	1	17:22		17:2
(Montmorency). Sandwich, Windsor and Amherstburg. Sarnia.	25:10 36:06 8:35	6 30	31:40 36:06 8:25	3.00	34·4 36 (
Sherbrooke Street <sup>2</sup> St. John. St. Stephen	$7.00 \\ 12.50 \\ 7.00$	6:50	19 00		7°0 19°0 7°0
St Thomas Sydney and Glace Bay. Toronto Street	7:50 20:98 52:587		7 50 20:98		$\begin{array}{c} 7.7 \\ 21.3 \\ 107.3 \end{array}$
Toronto Suburban	9184 72143 361167	[	9:84 72:43 36:167	8.42	80°8 40°6
Winnipeg Yarmouth	65:50 3:00 1,049:07:		$ \begin{array}{c c} 65.50 \\ 3.00 \\ \hline 1,291.461 \end{array} $	91 395	65 : 3 : 1 2 1,382 : 8

<sup>\*</sup>I Includes Grand Valley, Brantford Street and Woodstock and Thames Valley and Ingersoll Rail-

### RAILWAYS.

Passengers and Freight carried for the Year ending June 30, 1910.

====		= =						
7	8	9	10	11	12	13	14	
	•						Екепент	
		MILEAGE.		Pass	sengers Cari	RIED.	CARRIED.	
m)	Passenger	Freight, Mail and	Total	Fare	Transfer	Total	No. of	Pr.
Track Leased.	Car Mileage.	Express Car Mileage.	Car Mileage.	Passengers Carried.	Passengers Carried.	Passengers Carried.	Tons Freight Carried.	Numbe
							<del></del>	7.
	90,000 31,400	7	90,007 $34,400$	673,514 150,648	18,823	692,337 150,648	280	1 2 3
37:78	34,400 233,733 5,623,439	32,978 146,883	34,400 $266,711$ $5,770,322$	372,905 33,417,659		372,905 33,417,659	3,412 41,142	3
31 18	500,622	140,500	500,622	3,329,697	320,000	3,649,697 2,089,272	41,142	5
	324,821 $238,761$	29.075	324,821 $270,836$	1,698,723 $269,469$	390,549	2,089,272 $269,469$	50,398	6
	192,445	32,075 13,731	206,176	357,116		357.116		8
	219,977	35,266	255,243	823,167		823,167	132,418	9
	358,593		358,593	1,026,354	68,135	1,094,489	1,464	10
	187,000	5,500	192,500 888,024	605,476	57,574	663,050 4,772,982	15,000	$\frac{11}{12}$
	888,624 110,381	795	111,176	4,465,308 511,344	307,674	511,344	312	13
	201.212	50,692	341,904	508,091		508,091	28,110	14
	472,236 1,647,524	21,390	493,626 $1,647,524$	$\begin{array}{c} 1,135,291 \\ 9,123,669 \end{array}$	2,282,998	1,135,291 11,406,667	8,161	15
1 82	736,660	35,175	771,835	1,391,677	110,000	1,501,677	9,960	17
	305,170 199,680		305,170 199,680	1,159,787 $721,212$	977 133,490	1,160,764 854,702	• • • • • • • • • • •	18 19
	320,220 1,421,735		320,220 $1,421,735$	1,368,258	359,429	1,727,687 7,784,420		20
	1,421,735		1,421,735	6,718,167	1,066,253	7,784,420	1,713	21
	310,195	35,458	345,653	553,133	20,415 566,206	573,548 4,572,451	5,182	22
	1,165,812	9,920	1,175,732	553,133 4,006,245 102,377,923 1,787,654	566,206	4,572,451 137,369,109	27,120	23 24
8:64	15,134,852 626,072	162,691 53,486	$152,975,543 \\ 679,558$	1,787,654	34,991,186 123,002	1,910,656	111,477	25
	70,935		70,935	319,778		319,778		26
	350,512 701,016	36,318	350,512 $727,334$	1,295,485 2,565,262	$\begin{array}{c} 157,047 \\ 64,922 \end{array}$	1,452,532 $2,630,184$	186,123	27 28
	23,500		23,500	149,980		149,980		29
2.22	34,578 $3,924,542$	22,983 25,727	57,561 $3,950,269$	138,686 15,987,849	5,329,283	$\begin{array}{c c} 138,686 \\ 21,317,132 \end{array}$	124,351	$-30 \\ -31$
	257,063		257,063	710, 853	1	710,853		32
	$\begin{array}{r} 138,634 \\ 491,766 \end{array}$	4,893	$143,527 \\ 491,766$	839,369 2,832,426	20,000	839,369 2,852,426	58,677	33
	1,602,453		1,602,453	7,169,245	1,783,514	3,952,759		35
					1,100,011			
	330,562 854 794		330,562 854 794	1,269,348 3,031,244	363,326	$\begin{array}{c c} & 1,269,348 \\ & 3,394,570 \end{array}$		36  37
	854,794 143,990		854,794 143,990	723,566		723,566		38
	288,020		288,020 978 13.1	734.319	108,951	843,270 5,202,056		39
3.00	978,134 183,960		183,960	3,878,521 587,538 409,685	1,323,535 26,300	613,838		41
	183,960 236,328	00.741	288,020 978,134 183,960 236,328 267,502 15,391,301	409,685	136,561	546,246		42
2.28	246,761 15,391,301	20,741	267,502 15,391.301	2,083,754 $103,480,724$	30,352 40,436,390	2,114,106 $143,917,114$		43 44
	227,113		24,110	1,047,191	55,263	1,102,454		4.70
	$\begin{array}{c} 1,018,299 \\ 240,779 \end{array}$	87,916 54,936	$\begin{array}{c} 1,106,215 \\ 295,715 \end{array}$	3,794,219 296,280	1,464	$\begin{array}{c} 3,794,219 \\ 297,744 \end{array}$	35,626 11,308	146
	4,892,661		4,892,661	28,814,161	8,574,205	37,415,366		48
	98,340		98,340	225,906		225,906		49
56:44	64,359,605	889,561	65,249,166	360,964,876	99,227,824	460,192,700	852,294	
	1							

way. <sup>2</sup> Figures for 1909 used.

### ELECTRIC

### Table 2.—Summary Statement of Capital

		ABLE 213	UMMARX 150	atement	of Capital
1		2	3	4	5
			Stocks.		FUNDED
Name of Raily	yay.	Amount Outstanding	Amount per Mile of Line.	Proportion to total Railway Capital.  100 x Col.2  Col. 12.	Amount Outstanding Cols. 8+9+10+11
		. 8	s	Per cent.	s
1 Berlin and Waterloo. 2 Leased Line—Berlin and Brid Brantford and Hamilton 4 British Columbia	dgeport	17,000 300,000	7,083 13,043	87 50 31 25 51 50	$\begin{array}{c} 112,459 \\ 2,200 \\ 660,000 \\ \$,609,133 \end{array}$
5 Calgary Municipal 6 Cape Breton. 7 Chatham, Wallaceburg and Lal 8 Cornwall Street	ce Erie	. 1,359.000 618,600	17,675	59:42 45:06 100:00	516,000 928,000 754,500
9 Galt, Preston and Hespeler 10 Leased Line—Preston to Berl 11 Grand Valley. 12 Guelph Radial.	in	. 49,850 1,000 . 1,100,000	2,799 102 26,004	8:00 100:00 61:50	688,800
13 Halifax Transway	ville	1,400,000 1:0,000 235,000	140,210 14,286 10,682	69*60 28*56 61*00	607,000 250,000 150,000
16 Hamilton Radial 17 Hamilton Street 18 *Hamilton, Waterloo and Guel 19 Hull	ph	205,000 500,000 292,000	9,318	29:08 100:00 100:00	500,000
20 International Transit Co 21 Kingston, Portsmouth and Cat 22 Levis County 23 London Street		382,600 $552,000$	$\begin{array}{r} 10,388 \\ 37,327 \\ 16,626 \end{array}$	45.60 71.69 49.00	99,250 151,100 575,000
24 London and Lake Erie		. 1,035,900 . 10,000,000 . 1,000,000	22,984 142,857 33,091	79:00 62:00	1,025,000 4,426,035 613,000
28 Montreal and Southern Counti- 29 *Mount McKay and Kakabeka 30 Niagara Falls, Park and River 31 Niagara, St. Catharines and Te	Falls	. 115,900		100.00	600,000
32 Nipissing Central		280,000 40,000 1,247,700	3,521 28,013	33.80 71.40	78,452 500,000
36 Pictou County	wer Co	3,250,000	75,581	56.35	646.087 2,517,299
40 Sarnia Street. 41 †Sherbrooke Street. 42 St. John, N.B. 43 St. Stephen, N.B.		. 90,000 200,000 . 800,000	$\begin{array}{c} 9,730 \\ 28,571 \\ 64,000 \end{array}$	53:00 57:14 44:41	150,000 1,000,000
44 St. Thomas, Ont		500,000 8,000,000	26,738 69,510	54·50 66·67	59,812 419,000 3,998,327
47 Toronto Suburban 48 Toronto and York Radial 49 Windsor, Essex and Lake Shor 50 *Windsor and Tecumseh	e.,	. 2,000,000 750,000 100,000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	55 30 50 00 34 60	$\begin{array}{c} 1,620,000 \\ 750,000 \\ 189,000 \end{array}$
51 Winnipeg Street		135,000	)		43,391,153

<sup>\*</sup> Under construction. † Figures from last year's report.

### RAILWAYS.

for the Year ending June 30, 1910.

6	7	8	9	10	11	12	13
EBT.			Fundro	Dевт.		Summ	ARY.
Amount	Proportion to total Railway		Designa	ation.		Total	Amount
er Mile of Line.	Capital.		Miscellane-		Equipment	Railway Capital.	per Mile of Line,
Line.	100 x Col. 5 Col. 12	Bonds.	Obligations.	Income Bonds,	Trust Obligations.	Cols. 2+5.	MILE
s	Per cent.	8	ş	·s	8	s	8
28,114	100:00	112,459	·		 	112,459	28,11-
917	12:50	2,200				19,200	8,000
28,696	68:75 48:50	660,000 8 609 133				960,000 17,369,133	41,739
32,250	100.00	516,000				516,000	32,25
80,138	10:58	928,000				2,287,000 $1,373,100$	197,498 $39,238$
21,557	54.94	754,500				200,000	30,76
33,792	92.00	75,000	526,852			651,702	36,59
10.00		000 000				1,000 $1,788,800$	$\frac{109}{42.29}$
16,285	38.20	688,800				108,000	18,00
61,260		600,000	7,000			2,007,000	201,47
35,714 $6,818$	$\frac{71.44}{39.00}$	250,000 150 0 0				350,000 $385,000$	59,00 17,50
46,400						1,271,150	50,84
22,727	70.92	500,000				705,000	32,04
• • • • • • • •						500,000 292,000	20,02
139,130						660,250	181.98
12,406						182,350	22,79 52,06
14,741 17,268	28 31 51 00					$533,700 \ 1,127,000$	33,89
25,454	26:00	700,000				2,700,000	98,18
22,742		1,025,000			• • • • • • • • • • •	2,060,900 14,426.035	45,726 $206,046$
63,18 <b>3</b> 20,284						1,613,000	53,37
						500,000	69,44
50 278	100 00					115,900 600,000	50,37
50,378 25,850						1,959,000	48,97
						280,000	56,00
6,906 $11,226$	66°20 28°60,	78,452 500,000	• • • • • • • • • • • • • • • • • • • •			$\frac{118,452}{1,747,700}$	10,42° 39,239
15,01	43 · 37	50,000	26,592			176,592	34,62
37,500		300,000				600,000	75,00
33,563 58,542		646,087 2,500,000	10.000		7,299	$\frac{646,087}{5,767,299}$	33,56 134,12
13,683	62 '26'	490,000				787,000	21,97
8,443		78,100			150,000	165,100 350,000	18,173 50,000
21,429 80,000		1,000,000			150,000	1,800,000	144,000
14,285	50.00	100,000				200,000	28,57
7,914 $22,406$		59,812 $419,000$				59,812 919,000	7,914 $49,144$
34,870		3,998,327				11,998,327	104,64
14,548	64.15	140,000				223,155	22,678
20,037 $18,750$	44:70 50:00	1,620,000 750,000				3,620,000 $1,500,000$	$\frac{44,74}{37,500}$
	65 40	189,000				289,600	
76,336	37:60	5,000,000				13,284,776 135,000	
		• • • • • •				139,000	
		42,660,255	550 500		157,299	102.044,979	

### 1 GEORGE V., A. 1911 ELECTR1C

TABLE 3.—SUMMARY of Income Account

7 Chatham, Wallaceburg and Lake Erie. 25,759 35 29,700 62 5,508 73   9 Galt, Preston and Herpeler. 140,280 33 75,891 66 64,388 67 93 32   10 Grand Valley. 75,859 24 70,012 26 5,508 8   11 Guelph Radial. 29,149 16 22,956 81 6,522 35   12 Halifax Tranway. 198,459 51 116,275 59 82,183 92 125,822 81   13 Hamilton Grimsby and Belleville. 105,301 89 82,422 68 22,879 21   15 Hamilton Grimsby and Belleville. 105,301 89 82,422 68 22,879 21   16 Hamilton Radial. 13,484 11 101,756 92 33,727 19   17 Hull 94,957 04 84,870 27 10,686 77 37,196 77   18 International Transit. 54,194 38 34,301 97 19,892 41 12,757 27   19 Kingston, Portsmouth and Cataraqui. 30,807 07 31,508 17 -701 10 1,201 92   12 London Street. 248,556 97 108,540 12 80,016 85 275 72   12 London and Lake Erie. 105,062 56 69,311 88 35,750 68 111 52   23 Montreal Park and Island. 329,661 83 221,603 85 99,057 89   14 Montreal Park and Island. 329,661 83 221,603 85 99,057 89   14 Montreal Park and Island. 329,661 83 221,603 85 99,057 89   15 Montreal Park and Island. 329,661 83 221,603 85 99,057 89   16 Montreal Park and Island. 329,661 83 221,603 85 99,057 89   17 Miagara Falls, Park and River 153,339 75 82,342 63 70,497 12 109,161 62   25 Montreal Park and River 153,339 75 82,342 63 70,497 12 109,161 62   26 Nipssing Central 153,339 75 82,342 63 70,497 12 109,161 63   27 Ningara, St. Catharines and Toronto. 208,173 30 173,866 61 94,306 69   28 Nipssing Central 153,339 75 82,342 63 70,497 12 1,492 41   39 Pictou County. 40,588 20 26,021 17 14,537 03 26,548 7   31 Pictou County. 40,588 20 26,021 17 14,537 03 26,548 7   31 Pictou County. 40,588 20 26,021 17 14,537 03 26,548 7   32 Peterborough Radial. 32,966 80 32,972 70   33 Pictou County. 40,588 20 26,021 17 14,537 03 26,548 7   34 Port Arthur and Port William. 130,664 32 74,373 44 50,90 88   35 Sarnia. 41,769 84 66,530 96 25,006 88   36 Sarnia. 41,769 84 66,530 96 25,006 88   37 Sandwich, Windsor and Amherstburg. 181,400 97 101,917 5   38 Sydney and Glace Bay 11,760 84 66,500 90 21,114,092 41   39 Sydney and Glace			TABLE 5	SUMMARY	or rucom	e Account
Record   Properties   Propert		1	2	3	4	5
Earning From Operation		_		EARNINGS AN	D INCOME.	
Berlin and Waterloo	Number.	Name of Railway.	Earnings from		Earnings from	cellaneous
31 Ottawa	2 3 4 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 16 17 18 22 23 23 24 25 26 6 27 7 28 29	Berlin and Bridgeport. Brantford and Hamilton British Columbia. Calgary Municipal. Cape Breton. Chathann, Wallaceburg and Lake Erie. Cornwall Street. Galt, Preston and Hespeler. Grand Valley. Guelph Radial. Halifax Tranmay. Hamilton and Dundas. Hamilton, Grimsby and Belleville. Hamilton Radial. Hamilton Street Hull International Transit Kingston, Portsmouth and Cataraqui Levis County. London Street. Montreal Park and Island. Montreal Park and Island. Montreal Street. Montreal Street. Montreal and Southern Counties. Niagara Falls, Park and River Niagara, St. Catharines and Toronto. Nipossing Central.	31,750 42 6,307 99 98,748 55 1,912,121 81 144,244 18 93,332 22 74,626 11 25,759 35 140,280 33 75,589 24 29,149 16 198,459 51 46,883 51 105,301 89 135,484 11 367,400 90 94,957 04 54,194 38 30,807 07 62,997 10 248,556 97 105,062 56 329,661 83 4,145,849 65 132,313 36 24,744 71 153,339 75 268,173 30 13,845 95	$\begin{array}{c} 24,313 \ 98 \\ 5,273 \ 97 \\ 67,913 \ 41 \\ 1,210,855 \ 59 \\ 87,263 \ 36 \\ 54,771 \ 70 \\ 46,439 \ 42 \\ 20,700 \ 62 \\ 75,891 \ 66 \\ 70,012 \ 26 \\ 22,926 \ 81 \\ 116,275 \ 59 \\ 34,442 \ 53 \\ 82,422 \ 68 \\ 101,756 \ 92 \\ 230,914 \ 70 \\ 84,870 \ 27 \\ 34,301 \ 97 \\ 31,508 \ 17 \\ 55,870 \ 87 \\ 168,540 \ 17 \\ 55,870 \ 87 \\ 168,540 \ 18 \\ 221,603 \ 85 \\ 2,337,907 \ 31 \\ 4,931 \ 83 \\ 2,337,907 \ 31 \\ 10,931 \ 83 \\ 2,337,907 \ 31 \\ 10,931 \ 83 \\ 2,337,907 \ 31 \\ 10,931 \ 83 \\ 2,337,907 \ 31 \\ 10,931 \ 83 \\ 39,899 \ 31 \\ 82,842 \ 63 \\ 173,866 \ 61 \\ 3,971 \ 87 \end{array}$	7,436 44 1,034 02 30,835 14 701,266 22 56,980 82 38,560 52 28,186 65 5,508 73 64,388 67 5,576 98 6,522 35 82,183 92 12,440 93 22,879 21 33,727 19 136,486 20 10,086 77 19,892 41 - 701 10 7,126 23 80,016 85 99,057 98 1,807,941 92 27,381 53 -15,154 60 70,497 12 94,306 69 9,873 18	93 32 125,822 82 2,795 68 37,196 77 12,757 25 1,201 93 275 72 111 52 109,461 62 43 30 6,696 53
41 St. Steplen, N.B. 29,660 70 25,991 61 3,669 99 42 St. Thomas 17,451 80 26,421 87 -8,970 97 43 Sydney and Glace Bay 111,291 05 65,508 33 45,782 72 375 06 44 Toronto Street. 4,132,003 90 2,114,092 41 2,017,911 49 52,535 57 28,623 36 23,912 21 252 98 46 Toronto ad York Radial 372,509 14 216,067 17 156,441 97 47 Windsor, Essex and Lake Shore 106,225,67 72,827 79 33,397 88 Winnipeg. 1,212,669 80 630,891 17 581,778 63 873,852 16	31 32 33 34 35 36 37 38 39 40	Ottawa Peterborough Radial Pictou County Port Arthur and Fort William. Quebec Railway, Light and Power (Citadel) (Montmorency) Sandwich, Windsor and Amherstburg. Sarnia. Sherbrooke Street. St. John, N.B.	716,594 78 32,315 29 40,558 20 130,664 32 302,974 73 160,663 59 191,400 78 43,184 96 31,176 38 172,222 18	466,530 96 26,272 70 26,021 17 74,373 44 208,643 68 106,087 82 104,917 25 31,276 59 32,593 72 154,099 78	250,063 82 6,042 59 14,537 05 56,290 88 94,331 05 53,975 77 86,483 58 11,907 47 -1,417 34 18,122 40	718 39 26,548 78 28,660 66 90,211 02
	42 43 44 45 46 47 48	St. Stephen, N.B. St. Thomas. Sydney and Glace Bay. Toronto Street. Toronto Suburban Toronto and York Radial Windsor, Essex and Lake Shore. Winnipeg. Yarmouth	29,660 70 17,451 80 111,291 05 4,132,003 90 52,535 57 372,509 14 106,225,67 1,212,669 80	26,421 87 65,508 33 2,114,092 41 28,623 36 216,067 17 72,827 79 630,891 17	-8,970 07 45,782 72 2,017,911 49 23,912 21 156,441 97 33,397 88 581,778 63	375 00 252 98 873,852 16

### RAILWAYS.

for the Year ending June 30, 1910.

6	7	8	9	10	11	12	13
		Depuer	IONS FROM IN	COME,			
Gross Income less Operating Expenses.	Taxes.	Interest on Funded Debt.	Interest on Floating Debt.	Other Deduc- tions from Income.	Total Deductions from Income.	Net Income.	Net Loss.
\$ ets.	\$ ets.	s ets.	S ets.	\$ cts.	S ets.	8 cts.	8 ets.
7,436 44 1,034 02 30,835 14 701,266 22 56,980 82	92 53 118 89 3,087 77	120 00 39,600 00	721 52 17,083 66		5,436 71 960 41 59,771 43	1,999 73 73 61 701,266 22 34,120 82	28,936 29
102,866 46 28,186 69 5,058 73	3,492 80 1,369 80				47,942 80 30,277 95	54,923 66 5,058 73	2,091 26
64,481 99 5,576 98 6,522 35	3,838 57 1,929 96	4,404 57	1,084 14		3,014 10	$\begin{array}{r} 56,193 85 \\ 2,562 88 \\ 6,522 35 \end{array}$	
208,006 74 15,236 66 22,879 21 33,727 19	9,995 96 1,074 79 2,380 05 2,856 66	$egin{array}{cccccccccccccccccccccccccccccccccccc$	11 44		46,672 43 15,074 79 9,891 49 72,557 65	161,334 31 161 87 12,987 72	38,830-46
136,486 20 47,283 54 32,649 66	39,668 59 869 45 580 52	22,500 00 25,600 00	2,034 27		28,214 79	63,313 21 46,414 09 4,434 87	
500 83 7,126 23 80,292 57	525 14 634 98 5,228 19	2,970 00 8,531 11 28,750 00	4,640 22		13,806 31	45,656 02	2,994 31 6,680 08
35,862 20 99,057 98 1,917,403 54 27,381 53 - 15,111 30	904 09 13,443 16 341,069 98 4,221 82	97,806 42 200,122 07 36,438 77		6,309 36	144,882 64 547,501 41	34,958 11 1,369,902 13	45,824 66 13,279 06 15,111 30
77,193 65 94,306 69 9,873 18	2,867 92 3,875 26 698 18	30,000 00 48,200 00	17,519 74	364 50		44,325 73 24,347 19 9,175 00	
31,752 85, 250,063 82, 6,760 98, 41,085 81,	470 05 20,015 51 255 88 684 44	$\begin{array}{c} 4,222 & 90 \\ 20,000 & 00 \\ 2,560 & 00 \\ 9,250 & 00 \end{array}$	10,469,36	21,337 03	50,484 87	$\begin{array}{c} 26,257 & 05 \\ 199,578 & 95 \\ 2,609 & 00 \\ 9,814 & 34 \end{array}$	
56,290 88 94,331 05 53,975 77						56,290 88 94,331 05 53,975 77	
115,144 19 11,907 47 -1,417 34 108,333 42	2,681 91 398 80 1,551 19	$egin{array}{cccccccccccccccccccccccccccccccccccc$	1,637 42	· · · · · · · · · · · · · · · · · · ·	31,103 57 4,245 72 6,637 42 51,551 19	7,661 75	8,054 76
3,669 09 - 8,970 07 46,157 72	570 81 2,390 24	5,000 00 21,050 00	·		5,570 81	22,717 48	1,901 72 8,970 07
2,017,911 49 24,165 19 156,441 97 23,207 88	685,465 69 1,087 44 4,443 60	80,266 04	4,486 50	3,959 60	877,890 39 9,533 54	1,140,021 10 14,631 65 46,342 29	
33,397 88 1,455,630 79	1,270 24 122,982 79	37,500 00 250,000 00			012,002 10	1,082,648 00	
8,337,035 10	1.311,953 65		156,546 16	36.106.97			

### ELECTRIC

### TABLE 3.— SUMMARY of Income Account

	14	15	16	17
		Deduction	ONS FROM NET	INCOME.
Number.	Name of Railway.	Reserves and Special Charges.	Dividends.	Total Deductions from Net Income.
		8 ets.	\$ ets.	ŝ ets.
1	Berlin and Waterloo. Berlin and Bridgeport.	,		
2 2	Berlin and Bridgeport Brantford aud Hamilton			
4	British Columbia			
5	Calgary Municipal Cape Breton. Chatham, Wallaceburg and Lake Erie	4,685 29 9,300 00	14,040 00	4,685 29 23,340 00
8	Cornwall Street.			• • • • • • • • • • • • • • • • • • • •
9	Galt, Preston and Hespeler			
0	Grand Valley			• • • • • • • • • • • • •
2	Guelph Radial. Halifax Tramway Hamilton and Dundas		84,000 00	84,000 00
	Hamilton and Dundas			
5	Hamilton, Grimsby and Beamsville			
6	Hamilton Street			
7	Hull. International Transit			
$\frac{8}{9}$	Kingston, Portsmouth and Cataraqui			
0	Levis County. London Street.			33.120 00
10	London and Lake Erie			
3	Montreal Park and Island. Montreal Street. Montreal Terminal	200 000 00	999 573 76	18,900 00 $1.199.573.76$
5	Montreal Terminal	200,000 00		1,1,0,0
6	Montreal and Southern Counties			
7 Q	Niagara Falls, Park and River			
9	Nipissing Central			
0	Oshawa		140 594 00	
1	OttawaPeterborough Radial		149,724 00	149,724 0
3	Peterborough Radial			
4	Port Arthur and Fort William			
6	Quebec Railway, Light and Power Co. (Citadel)			
-	Sandwich, Windsor and Amherstburg			
8	Sarnia Sherbrooke Street*,		,	5,375 90
	St. John, N.B.		48,000 00	48,000 0
1	St. Stephen, N.B			
$^2$	St. Thomas	4,490 01		4,400 0
4	Sydney and Glace Bay.  Toronto Street.	150,000 00		
5	Toronto Suburban			
$\frac{6}{7}$	Toronto and York Radial	25,000 00		25,000 0
8	Winnipeg	126,000 00	674,076 15	800,076 I
	Yarmouth			

<sup>\*</sup> Figures for 1909 used.

### RAILWAYS.

for the Year ending June 30, 1910.—Concluded.

18	19	20	21	22	23	24	25
Surplus for	Deficit for	Surplus at Beginning	Deficit at Beginning	JUSTMEN	R Loss, Adres During	Surplus at Close of	Deficit at Close of
Year.	Year.	Beginning of Year.	of Year.	Credit	Debits.	Year.	Year.
8 cts.	8 cts.	8 cts.	\$ ets.	S ets.	\$ ets.	8 cts.	8 ets.
1,999 73 73 61						1,999-73 73-61	
	28,936 29		40,294 06			73 61	69,230 35
701,266 22 29,435 53						701,266 22 29,435 53	
31,583 66		109,931 53				141.515 19	
	2,091 26		5,483 57		4,728 78	5 050 52	
5,058-73 56,193-85		109,931 53				5,058-73 56,193-85	
2,562 88						2,562 88	
6,522 35 77,334 31	33,830-46	11 191 098				6,522 35 437,798 75	
161 87			1,102 57		352 21	52,787 40	1,292 91
12,987 72	91 000 10	45,237 58	110.75 ( 61	11 101 10	5,437 90	52,787 40	144 040 75
63,313 21	55,830 to	69.827.76	112,704 01	11,151 49	53.097 73	80,043 24	144,846 75
1119 111 017		101100 01		X X17 X W			
4,434 87	9 00 1 21		20,001 00				19,892 70 2,994 31
	2,334 51 6.680 08		21,706 50				28,386 58
12,536 02		33,420 08			19,349-51	26,606 59	
34,958 11	61 791 66		976 815 19			34,958 11	1 041 539 78
170.328 37		2,333,136 79		146,927 37	59,027 07	2,591,365 46	2,994 31 28,386 58 1,041,539 78 80,993 97 15,111 30
	13.279.06		65,293 49		2,421 42		80,993 97
44,325 73	15,111 30					44.325 73	15,111 50
24,347 19		182,117 00				206,464 19	
9,175 00 26,257 05							
49,854 95		73.165 77			30,119 81	92,900 91	
2,609 00		2,188 89				4,797 89	
9,814 34 56,290 88		10,539 30		357 18		20,711 12 56,290 88	
94,331 05						94,331 05	
53,975 77		10,000,50				53,975.77	
84,040 62 2,285 79		18,096 56 23,186 55				05 450 04	
	8,054-76	20,2 00					8,054-76
8,782 23	8,054-76 1,901-72 8,970-07	118,569 45	99 097 99			127,351 68	8,054 76 23,029 54 8,970 07
	8,970 07		22,027 82				8,970 07
18,317 47		80,312 75				98,630 22	
14.631 65		2,810,062 99				14.631 65	
21,342 29		95,080 02				115,422 31	
999 571 95	21,484-45	706,065 77	65,861 57			988 637 69	87,346 02
202,011 80		100,000 11					
2 400 190 00	010 050 40	# 11# 100 F	1 000 040 00	100 501 15			
2,490,139 09	213,058 42	7,115,193 54	1,337,340 37	160,531 15	188,042 33	9,572,315 31	1,544,892 65

### 1 GEORGE V., A. 1911 ELECTRIC

TABLE 4.—SUMMARY of Gross Earnings from

		TABLE 4.—S	OUMMART OF	Ear	rnings from
1	1	2	3	-4	5
	Name of Railway.		CAR EA	RNINGS.	
Number.	· 	Passengers.	Freight.	Mail Express.	Other Car Earnings,
2 Ber 3 Bra 4 Brii 5 Cali 6 Cap 7 Cha 8 Cor 9 Gal Lea 10 Gra 11: Gue 12 Hal 13 Har 14 Har 15 Har 16 Har 17 Hul 18 Inte	lin and Waterloo . lin and Bridgeport. ntford and Hamilton tish Columbia gary Municipal be Breton tham, Wallaceburg and Lake Erie nwall t, Preston and Hespeler. sed line—Preston to Berlin nd Valley leph Radial ifax milton and Dundas, milton, Grimsby and Beamsville uniton Street l ernational Transit Co. gston, Portsmouth and Cataraqui	6,025 94 78,323 20 1,769,150 69 142,021 85 84,936 16 43,202 40 15,615 18 64,018 76 	8 cts. 14 00 8,945 68 118,550 82 26,152 23 7,856 66 68,229 61 2,928 83 868 90 619 58 23,840 67 7,835 41 12,421 27		\$ ets.  349 55  1,151 20 16,084 61  104 00 271 10  2 60
21 Lon 22 Lon 23 Mor 25 Mor 25 Mor 27 Nias 28 Nias 29 Nips 30 Osh 31 Otts 32 Pete 33 Piete 34 Por 35 Que 36 Jon 37 San	is County.  Idon Idon Idon Idon and Lake Erie Rly. and Transportation Company. Intreal Park and Island Intreal Street Intreal Ferminal Intreal and Southern Counties. Identify and River. Identify and River. Identify and River. Identify and River. Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Erichard Identify and Identify and Identify Identify and Identify and Identify Identify and Identify and Identify Identify and Identify and Identify Identify and Identify and Identify Identify and Identify Identify and Identify Identify and Identify Id	138,880 17 171,842 09 32,275 93 30,811 38	2,544 59 157 49 10,508 81 3,292 13 33,624 02 32,202 09 70,977 61 21 50 63,572 30 1,378 65 7,573 53 5,600 15 3,544 46	500 00 623 34 1,230 05 3,916 17 8,091 00 1,092 68 3,534 08 800 00 1,513 50	14,619 93 1,057 70 65 00
41 St. 3 42 St. 43 Syd 44 Toro 45 Toro 46 Toro 47 Win 48 Win	John. Stephen. Thomas. ney and Glace Bay. onto Street onto, York and Radial. ndsor, Essex and Lake Shore Rapid. mipeg mouth. Total.	102,669 45 4,078,275 43 45,508 17 310,864 95 86,316 54 1,205,635 26	51,350 69 10,925 16 575,536 84	7,036 63 4,800 00 2,121 56 3,083 54 2,368 11 250 00 68,604 11	10 06 131 16 221 28 428 43 283 92 51,241 07

### RAILWAYS

Operation for the Year ending June 30, 1910.

S cts.         \$ cts.<						i				-
Total Car Earnings	6	7	8	9	10	11	12	13	14	
Total Car   Earnings				Miscrila	NEOUS EAR	NINGS.				
29,779 62			of Land or Build-		of Equip-		Miscellan- eous	Miscellan- eous	Earnings from	Number,
6,125 94         182 05         3,966 04 5         5,952 00         3,136 10         9,88 10         9,88 10         9,874 55         1,905,196 07         5,319 96         840 80         391 09         373 90         6,925 74         1,912,121 81         112,021 85         2,223 33         141,241 18         8,181 121         33,186 00         3,180 00         3,389 02         2,222 33         141,241 18         8,181 21         33,385 22         2,222 33         141,241 18         8,181 21         33,385 22         2,222 33         141,241 18         8,181 21         33,385 22         2,222 33         141,241 18         8,181 21         33,385 22         2,222 33         141,241 18         8,061 20         1,166 90         3,939 92         74,626 11         1,923 60         2,759 33         133,212 19         80 63 84         413 20         16 10         1,068 14         140,280 33           73,582 94         825 00         825 00         462 04         837 44         111 91         1,178 89         72,919 16         1,273 13         1,129 36         1,129 36         1,129 36         1,129 36         1,129 36         1,129 36         1,129 36         1,129 36         1,129 36         1,84 40         1,129 36         1,129 36         1,129 34         1,129 36         1,124 40         1,129 34	\$ cts.	\$ cts.	\$ cts.	\$ cts.	S ets.	\$ cts.	\$ ets.	\$ ets.	\$ cts.	
27,970 27 27 27 27 50	6,125 94 89,660 45 1,905,196 07 142,021 85 85,181 01 70,686 19 23,766 75	5,319 96 2,222 33 315 00 225 00 360 00	182 05 5,952 00 840 80 655 20 503 92	391 09 7,061 96 630 84	3,136 10	465 70 413 20	373 90 119 05 3,180 00 1,166 90 16 10	182 05 9,088 10 6,925 74 2,222 33 8,151 21 3,939 92 1,992 69 1,068 14	$\begin{array}{c} 6,307 \ 99 \\ 98,748 \ 55 \\ 1,912,121 \ 81 \\ 144,244 \ 18 \\ 93,332 \ 22 \\ 74,626 \ 11 \\ 25,759 \ 35 \end{array}$	9 2 3 5 3 4 4 5 5 8 6 7 8 5 8 8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27,970 27 197,330 15 44,914 77 100,199 04 127,839 14 363,688 69 93,256 51 49,126 35 29,605 14	825 00 217 50 1,129 36 100 04 350 00 300 00 720 00 360 00 658 84 300 00	462 04 54 63 942 29 390 00 1,968 00 106 08 891 23	1,200 00	1,814 07 3,810 56 6,954 97 1,024 21	387 44	34 45 4,409 19 20 279 98 811 48	2,056 30 1,178 89 1,129 36 1,968 74 5,102 85 7,644 97 3,712 21 1,700 53 5,068 03 1,201 93 279 98 2,304 82	29,149 16 198,459 51 46,883 51 105,301 89 135,484 11 367,400 90 94,957 04 54,194 33 30,807 07 63,277 08	5 11 12 13 14 15 16 16 17 18 18 19 20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	312,385 47 4,100,976 47 133,316 73 24,744 71 151,485 02 256,129 04 13,147 50 77,709 71	500 -00	1,467 00	6,309 30		325 00	177 90 44,873 18	1,076 45 8,276 36 44,873 18	320,661 83 4,145,849 65 134,200 77 24,744 71 153,339 75 268,173 30 13,846 05 79,679 63	23 24 25 26 27 28 29 30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	32,315 29 40,558 20 129,370 39 300,089 28 148,504 25 178,770 74 39,893 09 30,841 38 171,454 71 29,300 70	230 00 499 83 2,885 45 341 47 575 00 312 50 335 00 767 47 150 10	358 15 25 00	1.200.00		794 10	10,859 72 1,080 64 2,978 47	718 39 1,293 93 2,885 45 11,559 34 12,630 04 3,290 97 335 00 767 47 360 00	33,033 68 40,558 20 130,664 32 302,974 73 160,063 59 191,400 78 43,184 066 31,176 38 172,222 18 29,660 70	32 33 34 35 35 36 37 38 39 40
16,821,376 74 45,659 15 18,465 22 17,302 28 17,045 21 29,217 55 151,723 33 279,412 74 17,100,789 48	109,837 24 4,083,075 43 45,508 17 364,337 20 100,546 52 1,208,431 80 10,810 47	43 00				2,427 74	7,497 87	9,968 61	111,291 05 4,132,003 90 52,535 57 372,509 14 106,225 67 1,212,669 80 20,779 08	45 45 46 47 48 49

### 1 GEORGE V., A. 1911 ELECTRIC

### Table 5.—Summary of Operating Expenses

			CHART OF		Expenses
	1	2	3	4	5
		MAINT	CENANCE WA	Y AND STRUC	TURES.
Number.	Name of Railway.	Mainten- ance of Track and Roadway.	Mainten- ance of Electric Line.	Mainten- auce of Buildings and Fixtures.	Total Way and Structures.
		ŝ ets.	\$ cts.	s ets.	8 ets.
2 3 4 5 6 7 8 9 10 11 12 13 14 4 15 6 17 8 19 20 21 22 24 25 62 27 8 29 30 31 32 33 4	Hamilton Radial. Hamilton Street Hull. International Transit Co Kingston, Portsmouth and Cataraqui. Lévis County. London. London and Lake Erie Ry. and Transportation Co. Montreal Park and Island. Montreal Street. Montreal Terminal Montreal and Southern Counties. Niagara Falls Park and River. Niagara, St. Catharines and Toronto. Nipissing Centre Oshawa. Ottawa. Peterborough Picton Country. Poort Agribur.	9,516 02 74,230 96 2,545 55 2,979 16 4 889 09	1,347 12 160 00' 626 56 31,611 44' 1,677 42' 1,643 18' 575 23' 40 38' 723 03' 2,538 29' 2,444 02' 5,117 85 1,108 29 2,444 58 1,245 05 1,874 71 2,583 66 661 87 143 05 844 82 2,624 15 999 87 4,713 48 27,004 68 1,922 80 1,620 23' 2,474 45 205 54 7,998 05 251 36 96 43 1,557 33	12 89 55 78 3,389 15 791 36 493 15 539 50 51 85 305 94 2,117 87 28 21 129 88 327 04 128 01 126 52 591 42 7 07 907 65 14,783 95 1,834 93 1,022 61 1,880 02 2,568 50 6 60	\$ cts.  1,347 12 172 89 10,198 36 109,231 55 5,014 33 5,115 49 6,003 82 1,440 01 11,728 53  3,350 22 1,269 76 13,928 30 4,568 47 11,569 47 11,569 47 11,569 94 11,962 07 2,728 17 2,501 81 4,080 56 22,271 95 10,795 02 42,738 22 153,465 78 11,556 00 1,441 80 17,578 63 21,663 82  4,268 04 29,584 12 1,891 30 1,508 84
35 36 37 38 39 40 41	Quebec Ry., Light and Power Co. (Citadel)Quebec Ry., Light and Power Co. (Montmorency)Sandwich, Windsor and AmhertsburgSarniaSherbrooke StreetSt. JohnSt. Stephen	9,580 79 12,136 41 10,536 41 2,536 10 3,443 27 13,637 33 3,415 88	2,876 90 2,272 83 3,082 60 11 22 560 00 2,261 59 164 50	332 50 1,050 23 152 74 900 00 568 87 951 63	12,790 19 15,459 47 13,771 75 2,547 32 4,903 27 16,467 79 4,532 01
42 43 44 45 46 47 48	St. Thomas. Sydney and Glace Bay Toronto Street. Toronto Suburban. Toronto, York and Radial Windsor, Essex and Lake Shore Rapid. Winnipeg	2,179 14 5,195 54 53,185 34 2,753 68 16,448 90 7,413 04 31,444 43	2,084 26 7,219 68	106 44 13,810 35 186 45 1,212 26 335 02 1,138 57	2,607 04 6,859 31 87,521 33 3,324 40 20,427 99 9,832 32 39,802 68 603 60
431	Yarmouth	693 60 590,363 28	152,874 47	54,657 28	797,895 03

### RAILWAYS.

for the Year ending June 30, 1910.

6	7	8	9	10	11	12	
		MAINTE	NANCE—EQUIPM	ENT.			
of	Maintenance of Electric Plant.	Maintenance of Cars.	Maintenance of Electric Equipment of Cars.	Maintenance of Miscellaneous Equipment.	Mis- cellaneous Shop Expenses.	Total Equipment.	Number.
\$ cts.	\$ cts.	\$ ots. 2,899-82	\$ ets.	\$ ets.	s ets.	\$ ets. 3,827 37	1
1,322 83 1,71 49 666 23	906 88 9,733 02 646 81 1,267 36 26 74	2,276 99 89,664 99 4,657 35 2,738 22 2,546 64 1,868 97 4,095 06		75 79 121 73 232 78 339 65	4,187 30 1,560 04 126 70	5,061 53 143,450 52 8,931 56 5,195 52 6,773 53 2,841 95 4,792 50	4 5 6 7 8
	30 48 577 66 326 22	6,507,36 $14,601,28$	6,391 26 488 53 3,307 86 4,506 67	843 59 654 49	185 26	5,297 02 4,306 28 18,059 39 1,229 49 9,216 53 11,014 03	11 12 13 14 15
1,812 42 507 01		3,020 29 2,615 52 9,082 15 4,032 76	1,003 18 1,313 56 2,790 56 8,631 61 1,316 37 10,341 77	66 67 691 06 430 26 38 77 931 78	399 37 666 55 2,699 79 13 06	14,103 42 4,489 51 1,591 72 7,012 56 23,060 56 6,163 39 25,842 50	18 19 20 21 22 23
9,326 62 741 36 415 77	1,010 86	7,387 75 679 65 5,670 95 8,853 79	2,810 15 9,975 21	605 21	1,074 25	10,097 17 21,351 29	25 26 27 28 29
374 97	206 82	359 70 9,995 48 12,003 51 5,465 33	28,431 64 1,310 24 903 12 5,596 79 5,861 97	97 86 391 45 123 15	2,914 10 300 15 1,195 78 822 10	73,189 14 3,131 14 1,735 65 15,892 42	31 32 33 34 35 36
310 00 917 42 189 88	26 06 270 19 157 63 141 83	4,158 42 9,330 34 859 73 7,801 71	2,400 62 14,064 56 975 90 2,816 28 1,891 93	650 00 801 02 61 32	1,490 44 430 67 1,071 16 224 60	$\begin{array}{c} 11,410 & 02 \\ 3,891 & 06 \\ 6,070 & 09 \\ 26,210 & 56 \\ 2,581 & 62 \\ 2,973 & 91 \\ 10,070 & 32 \\ \end{array}$	38 39 40 41 42
18,745 22	4,195 06 1,593 7t 1,977 53 912 52	132,333 76 840 26 13,796 55 3,259 68 49,799 64	689 15 13,537 50 8,131 45 32,553 84	332 69 2,588 61 1,009 14	275 07 342 30	443,145 38	45 46 47 48
38,305 93	45,148 10	692,276 38	481,301 83	5S,815 63	202,591 58	1,532,542 87	

### 1 GEORGE V., A. 1911 ELECTRIC

### Table 5.—Summary of Operating Expenses

_					
	13	14	15	16	17
			Transf	PORTATION—O	PERATION OF
Number.	Name of Railway.	Power Plant Wages.	Fuel for Power.	Water for Power.	Lubricants and Waste for Power Plant.
		\$ cts.	\$ ets.	\$ ets	\$ cts.
1	Berlin and Waterloo				
2	Berlin an Bridgeport. Brantford and Hamilton	3,227 91			
1	British Columbia	14,439 10	6,181 74	11,624 82	192 32
5	Calgary Municipal Cape Breton				
6	Chathum, Wallaceburg and Lake Erie	2,376 39	9,535 34		
- 8	Cornwall	1.087 82	603 12	120 00	
9	tralt, Preston and Hespeler	3,307 63	12,634 51		930 95
10	Leased Line—Preston to Berlin	4,269 96	10,527 14		372 02
3.1	Gneloti Radial	1,653 57	3,270.98		274 31
12	Halifax	3,123 40	12,050 40		. 489 19
13	Hamilton and Dundas	2,835 79			
15	Hauniton Kadad				
16	Ham Iton Street Huil				
17	Hull				
19	International Transit Co Kingston, Portsmouth and Cataraqui	775 43			
20	Levis County	775 43 7,959 71	20,180 27	128 00	562 09
21	Louis County. London Louis Transportation Co.	6,269 99	13 453 05		339 59
9.3	Montreal Park and Island			1,083 11	
24	Montreal Street  Montreal Terminal  Montreal and Southern Counties	51,113 39 5,04 - 73	77,534 78 5 905 69	1,083 11	2,042 84 365 3 <b>4</b>
25	Montreal Terminal	2,204 28	9,222 73		300 34
27	Niaga a Falls, Park and River	4,831 84			40 31
98	Nuscara St. Catharines and Toronto	3,999-66 280-00			
50	Nipissing Central	2,182 83	6,311 00	3,693 97 1,500 00 80 <b>0</b> 0	82 38
31	Ottawa	8,135 40		3,693 97	
32	Ottawa P terborongh Radial	2,924 58	1 332 60	1,500 00	937 03
		2,024 00	4,002 00	00 00	201 00
25	Onehee Ry Light and Power Co. (Citadel)	*********			
36	Quebec Ry , Light and lower Co. (Monumorency)	1.097 54 6,078 33	10,806 23	780 00	502 99
31	Sandwich, Windsor and Amherstburg				
3!)	Sarnin Sherbrooke Street * St. John	1,314 00			55 00
40	St. John	3,885 00 952 50	14,594 82 4,591 80	830 00 442 95	217 84
41	St. Stephen St. Thomas Sydney and Glace Bay.				
43	Sydney and Glace Bay	2,845 1	7,3*2 48	242 70 257 99	442 85 528 16
		15,950 50	5,370 10	257 39	926 10
46	Toronto Suburban	10,966 88	25,416 84		2,696 18
47	Windsor, Essex and Lake Shore Rapid	3,255 45	7,447 53		
48	WinnipegYarmouth		4 767 19		167 54
40	1 at modell				
	Total	178,389 69	271,410 36	21,398 33	10,538 93

<sup>\*</sup> Figures of 1:09 used.

### RAILWAYS.

for the Year ending June 30, 1910-Continued.

18	19	20	21	22	23	24	25			
POWER PLAN	ΥT.		,	Transportat	ION—OPERAT	ION OF CARS.	Wages of Car House Employees.  \$ cts 710 00 1,780 89 27,213 53 1,351 42			
Miscellane- ous Supplies and Expenses of Power Plant.	Hired Power.	Total Operation of Power Plant.	Superin- tendence of Transpor- tation-	Wages of Conductors.	Wages of Motormen.	Wages of Miscellane- ous Car Service Employees.	Car House			
\$ ets.	S ets.	\$ ets.	S ets	\$ cts.	\$ ets.	\$ ets.	\$ ets			
	6,955 19	6,955 19	1,100 00	2,551 19	2,551 19		710 00			
1,618 17 743 36	13,219 91 178,073 16 31,881 20 12,552 87	16,447 82 212,129 31 31,881 20 12,552 87 12,655 09 1,810 94 16,873 09	1,898 69 15,160 50 564 00 1,062 50 582 80 1,500 00	934 72 2,947 68 215,008 72 15,402 58 7,859 30 4,429 73 4,689 24 6,595 77	934 72 2,947 69 215,008 72 15,367 60 7,859 31 4,429 74 4,689 24 6,525 73	2,142 76 33,365 55 367 85 2,292 24	27,213 53			
	9,123 19	24,292 31 5,198 86	1,780 00	9,644 19 3,808 83	9,644-19 3,808-84		5,530 01			
1,092 97	4,470 03 11,067 05 16,824 70 41,527 37 9,057 24 7,000 01 4,167 05 9,000 00	17,370 75 4,470 03 13,902 84 16,824 70 41.527 37 9,057 24 7,000 01 4,167 05 9,775 43 29,742 42 20,657 97	1,400 00 810 63 1,699 64 2,809 16 6,462 31 300 00	21,258 69 3,022 27 4,675 04 9,026 71 37,964 27 14,621 22 5.874 38 3,702 75 7,573 34 29,257 88	21,258 69 3,022 26 4,675 03 9,026 70 37,964 27 14,621 21 5,925 66 3,772 68 7,685 11 29,771 8	3,007 87 352 40 6,117 40 2,211 09 1,536 97 968 25 1,145 20 3,739 53	1,817 75 259 66 921 22 1,701 52 3,844 53 1,096 61 2,655 17 1,280 02 1,777 44			
2,985 16 73 47 759 91 690 02 220 87	51,818 90 233,400 41 1,500 00 	51,818 90 368,159 62 12,190 06 12,186 92 5,562 17 17,079 33 1,530 00	612 07 3,783 93 37,339 23 1,970 00 719 56 1,748 07 6,599 20	5,456 35 21,288 71 417,211 50 14,069 59 1,703 96 8,882 74 21,127 85 479 69	5,456 65 29,537 10 411,051 68] 14,173 75 1,703 97 8,751 88 21,127 86	6,587 46 21,798 99 3,192 75 534 30 824 58 13,296 07	1,672 75 3,186 08 45,944 45 3,027 55 2,230 35 2,440 54 673 66			
250 00 1,603 31	2,405 34 15,000 00	$\begin{array}{c} 11,231 \ 55 \\ 28,432 \ 71 \\ 1.500 \ 00 \end{array}$	$\begin{array}{c} 1,650 & 05 \\ 11,412 & 86 \\ \hline 780 & 00 \end{array}$	2,019 00 $92,958 18$ $5,558 98$	2,767 00 92,958 17 5,558 98	1,033 41 21,174 52 354 25	300 00 8,607 06 354 25			
25 10 215,49	13,493 26 20,343 30 4,001 25 8,232 85 5,577 81	7,629 30 13,493 26 20,343 30 5,213 89 26,615 89 5,577 81	1,991 30 10,272 74 1,665 31 912 35	3,730 52 12,839 11 42,330 10 10,728 95 17,995 43 3,998 22	2,652 37 12,639 34 42,330 10 7,826 80 17,995 43	820 90 915 38 1,847 50; 16,984 15 408 33	1,999 79 6,828 87 1,009 87 2,864 74			
40 00 292 76		$\begin{array}{c} 3,3,7 & 61 \\ 1,409 & 00 \\ 19,602 & 58 \\ 6,20 & 09 \end{array}$	$\begin{array}{c} 500 & 00 \\ 3,120 & 00 \\ 355 & 00 \end{array}$	3,800 00 27,218 08 2,763 90	$\begin{array}{r} 3.998 \ 21 \\ 3,800 \ 00 \\ 27.218 \ 08 \\ 2.759 \ 70 \end{array}$	200 00	1,880 00 5,602 62 1,941 95			
519 56 4,239 54	4.448 23 3,329 80 29 ,331 06 4.560 00	4,448 23 14,752 54 319,677 35	998 50 40,036 78	5,704 52 5,287 76 407,934 77	5,704 53 5,287 76 376,257 92		2,484 55 990 98 208,012 17			
335 63 648 40	11,909 90 44,803 84	4,560 00 51,325 43 11,351 38 44,803 81	4,147 50, 1,325 17 21,069 10	4,92 62 16,873 53 3,916 56 175,318 45	5,094 09 16,873 53 3,946 57 163,669 65	5,800 75	2,513 17 9,596 18 24,680 66			
		4,934 73		2,917 24	2,917 24					
17,916 3	1,087,273 72	1,5 6,927 37	192,567 60	1,749,916 70	1,697,096 68	152,950 35	393,998 76			

### 1 GEORGE V., A. 1911 ELECTRIC

### Table 5.—Summary of Operating Expenses

_			- Operaving	- Expenses
	26	27	28	29
			Trans	SPORTATION—
Number.	Name of Railway.	Car Service Supplies.	Mis- cellaneous Car Service Expenses.	Hired Equipment.
_		\$ cts.	8 ets.	\$ cts.
23 34 55 66 77 88 99 100 111 121 131 144 155 160 177 188 199 200 211 222 233 244 255	Berlin and Waterloo Berlin and Bridgeport Brantford and Hamilton British Columbia Calgary Municipal. Cape Breton. Chatham, Wallaceburg and Lake Erie. Cornwall. Galt, Preston and Hespeler—Leased line, Preston to Berlin. Grand Valley Guelph Radial. Halitax. Hamilton and Dundas. Hamilton and Dundas. Hamilton Radial Hamilton Street. Hull International Transit Co. Kingston, Portsmonth and Cataraqui. Levis County. London London and Lake Erie Railway and Transportation Co Montreal Park and Island. Montreal Terminal Montreal and Southern Counties Niagara Falls Park and River.	1,238 21 9,184 88 803 22 899 98 1,774 31 500 63 1,365 37 1,675 08 2,791 32 1,166 80 140 06 350 08 1,426 69 1,943 38 35,605 78	275 29  2,447 95 716 91 4,013 82  416 21 1,101 38 2,258 95 2,971 11 5,734 72 501 89 216 46  443 28 2,477 74 1,289 15	5,860 91  48 13 3,100 00  3,144 41 2,318 08 6,342 35 1,247 79  3,199 20  3,439 99
$     \begin{array}{r}       27 \\       28 \\       29 \\       30 \\       31 \\    \end{array} $	Niagana, St. Catharines and Toronto.  Nipssing Central. Oshawa	30 6/	7,606 39	9,549 40
37 38	Montreal and Southern Counties Niagara Falls Park and River. Niagara, St. Catharines and Toronto. Nipis-ing Central. Oshawa Ottawa. Peterborough Radial. Pictou County. Port Arthur. Quebec Railway, Light and Power Co. (Citadel) Quebec Railway, Light and Power Co. (Montmorency) Sandwich, Windsor and Amherstburg Sarnla.	1,522 87	116 72	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
39 40 41	Sherbrooke Street St. John St. Stephen. St. Thomas. Sydney and Glace Bay. Toronto Street. Toronto Suburban.	18 12	2,066 91	
46 47 48	Toronto Street. Toronto Suburban. Toronto and York Radial. Windsor, Essex and Lake Shore Rapid. Winnipeg Yarmouth.	3,681 92	14,383 72 11,332 07	
.45.01	Total	98,486 16		42,136 56

### RAILWAYS.

for the Year ending June 30, 1910—Continued.

30	31	32	33	31	35	36	37
Operation of	OF CARS—Con	rtinued.			GENERAL.		
Cleaning and Sanding Track.	Removal of Snow and Ice.	Total Operation of Cars.	Salaries of General Officers.	Salaries of Clerks.	Printing and Stationery	Mis- cellaneous Office Expenses,	Store Expenses.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ ets.	\$ cts.
	202 25	7,114 63	115 00	300 00		218 61	290 98
	59 05 1,091 49	1,928 49 16,378 00	1,347 00	662 31 4,726 06	35 00 374 35		
5,113 18	1,030 99 156 25	572,052 12	24,133 10 3,632 50	42,308 69 548 45	5,875 73 670 01	5,000 83	5,639 31
440 87 136 41	537 55	33,377 66 19,754 60	3,961 94	2,107 39	472 05	144 93	5,639 31 187 99 49 10
365 40		14,990 22 10,460 79	1,084 72		$\begin{array}{c} 477 \ 40 \\ 142 \ 60 \end{array}$		49 10
	1,549 78	25,624 07	2,518 16	6,754 00	450 00,	1,009 54	
• • • • • • • • • • • •	1,226 61	27,825 00 7,617,67	4,120 34 1,000 00	429 00	994 34 241 36	88 81	
412 61	2,713 11	7,617 67 54,059 24	2,400 00	1,218 00	533 00.	416 10	371 20
• • • • • • • • • • • • • • • • • • • •	652 47 803 63	12,866 11 24,834 26	796 50 1,593 00,	2,523 12 5,074 71	126 20 500 301		
	1,349 45	37.113 17	2,052 00	5.882.08	544 95		
• • • • • • • • • • • • •	1,349 45 3,242 86 2,660 47	99,252 09 33,571 59	2,052 00 5,777 53 1,220 00 1,196 19	12,453 40 1,898 07	1,070 85 $276 71$	686.06	
	127 61 361 28	15,217 73	1,196 19	1,265 98	179 59	080 00	
104 71	361 28	10,491 88	1.861 00		354 78 363 94	584 96	665 00
424 71 421 28	$\begin{array}{r} 3,813 \ 04 \\ 2,725 \ 70 \end{array}$	25,737 03 71,432 39	2,143 46 4,599 84	$\begin{array}{c} 1,260 \ 00 \\ 1,355 \ 23 \end{array}$	185 15	393 10	665 00
1 554 04	550.88	20,720-76	3,360 00	1,296.75	622 68	491 07	
1,554 84 28,034 80	7,842 14 141,175 11	68,220 25 1,188,154 04	16,258 06 43,149 98	2,126 75 31,423 98	28372 $5,97174$	2,907 15	12,041 30
2,040 72	7,866 09	46,340 36	100 00	961 28	188 27		
499 00	558 59 9 806 99	8,157 37 26,703 18	$ \begin{array}{c c} 600 & 00 \\ 1,038 & 59 \end{array} $	728 58 $1,095 03$	$\frac{487}{129} \frac{46}{68}$	233 96	218 62
619 86	2,000 55	82,561 00	8,908 82	6,039 01	1,593 49	1 179 681	218 62 : 979 48 :
		1,701 38 $18,338$ 46	$\begin{array}{c} 300 \ 00 \\ 2,700 \ 00 \end{array}$	173 33 300 00	$\begin{array}{c} 15 & 00 \\ 177 & 43 \end{array}$	10 50	
	8,220 20	235,330 99	17.694 33		919 89	442 70	500 00
• • • • • • • • • • • • • • • • • • • •	$173 28 \\ 1,278 60$	13,645 94 10,576 27	1,585 00 1,800 00	$\begin{array}{c} 1,090 \ 80 \\ 472 \ 57 \end{array}$		501 02 398 28	
2,663 80	423 61	29,630 79		2,121 25	463 00	343 58	500 00 645 00
2,663 80	16,223 06 2,896 21	133,552 73 45,985 86	3,668 39 2,945 68	3,165 33 4,297 04	598 37 1,781 82	7,284 55	645 00 5
	545 67	42,361 54	2,700 00	1,246 00	152 57	81 15	
350 00		42,361 54 7,996 43 12,180 00 73,991 86	2,232 00 1,500 00	505 00 444 00	399 10 101 30	240 29	517 10
	8 766 171	73,991 86	1,861 71	1,218 35	233 10		524 07
• • • • • • • • • • • • • • • • • • • •	356 31	8,194 98 13,893 60	1,845 00 960 00	193 00 420 00	290 30	204 45	
116 12	362 72	14,897 77 1,043,154 26	2,205 34	1,346 00	191 14	306 21	517 10 524 07 183 86 8 867 00
3,536 74 626 46	7.375.88	1,043,154 26	34,005,92	42,406 99	4,021 12 552 75 401 20	$\begin{array}{c} 12,365 & 34 \\ 417 & 62 \end{array}$	1,001,00
8,088 73	131 56 5,374 92	13,673 41 79,020 03	1,500 00; 10,658 04;	1,355 50	401 20	$\frac{417}{2,079}$ $\frac{62}{96}$	440 02
9,754 77		20,550 37 427,592 73	3,796-56	$\begin{array}{c} 1,272 \ 60 \\ 5,747 \ 35 \end{array}$	200 90	1,275 36 3,302 21	440 02 343 18 1,377 89
9,754 77		$\begin{array}{r} 427,592\ 73 \\ 5,936\ 53 \end{array}$	3,650 00	5,747 35		3,302 21	1,377 89
65,200 30	238,881 58	4,814,761 63	236,575 70	202,712 98	33,634 34	44,336 11	33,841 10

### ELECTRIC

TABLE 5.—SUMMARY of Operating Expenses

_	1.7011 0.—		. Operating	————
	38	39	40	41
				GENERAL-
Number.	Name of Railway.	Stable Expenses,	Advertising and Attractions.	Miscellan- eous General Expenses.
		\$ ets.	\$ cts.	S cts.
1	Berlin and Waterloo.			1,668 32
3	Berlin and Bridgeport Brantford and Hamilton	1,403 82	333 82	438 71 1,930 19
4 5	Brantford and Hamilton British Columbia Calgary Municipal.	1,583 96	7,756 32 69 75	9,241 99 437 93
6	Cape Breton. Chatham, Wallaceburg and Lake Erie.	175 68	3 25	1,778 17
8	Cornwall. Galt, Preston and Hespeler—Leased Line, Preston to Berlin		1,157 65	4,432 52
$\frac{9}{10}$	Galt, Preston and Hespeler—Leased Line, Preston to Berlin Grand Vallev			1,312 07
11	Grand Valley Guelph Radial Halifax Hamilton and Dundas Hamilton, Grimsby and Beamsville.	972 88	1,233 60 633 40	415 97
13	Hamilton and Dundas.	14 04	265 92	941 80 842 81
-15	Hamilton Radial	213.95	248 91 267 39	1,536 48 2,153 91
16	Hamilton Street. Hull. International Transit Co.	6 77	1,787 27	3,879 88
18	International Transit Co.	1,428 64	. 146 53 6 00	896 33 1,081 28
-19	Kingston, Portsuouth and Cataragui	614 96	2,527 09 94 95	5,392 43 246 73
21	Levis County. London. London and Lake Erie Railway and Transportation Co	322 10		1,919 79
-23	Montreal Park and Island		684 95 1,778 28	652 38 2,219 57
$\frac{24}{25}$	Montreal Street Montreal Terminal	7,690 21	611 46 489 37	38,396 93 1,444 15
26	Montreal Terminal.  Montreal and Southern Counties	107 51		
28	Niagara, St. Catharines and Toronto	127 51	3,231 62 2,239 01	824 87 1,551 26
$\frac{29}{30}$	Nipissing Central	586.57		1,264 46
31	Ottawa		12,699 60	4,839 33
33	Niagara Falls Park and River Niagara, St. Catharines and Toronto. Nipssing Central Oshawa. Ottawa Peterborough Radial Pictou County. Port Arthur.	308 11	1,297 34	143 60 1,150 33
31	Port Arthur. Quebec Railway, Light and Power Co. (Citadel) Quebec Railway, Light and Power Co. (Montmorency)	784 29	306 52	660 64
36	Quebec Railway, Light and Power Co. (Montinorency)		1,402 55 832 72	$\begin{array}{r} 14,704 \ 14 \\ 2,701 \ 08 \end{array}$
38	Sandwich, Windsor and Amherstburg.	1,349 97	172 18	5,351 19
$\frac{39}{40}$	Sherbrooke Street St. John	91 12 452 17	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3,547 84 1,647 61
41	St. Stephen.		19 05	173 95
43	St. Homas Sydney and Glace Bay. Toronto Street. Toronto Suburban.		25 99	430 51
41 45	Toronto Suburban	5,996 77	105 20	371 13
46	Toronto Suburban Toronto, York and Radial Windsor, Essex and Lake Shore Rapid	6,184 37	1,882 71 1,651 21	
48	Winnipeg Yarmouth			10,644 70
49			323 09	485 34
	Total	30,817 44	47,411 04	133,752 32

### RAILWAYS.

for the Year ending June 30, 1910—Continued.

42	43	44	45	46	47	48	49
Continued.							
Damages.	Legal Expenses in Connection with Damages.	Miscellan- eous Legal Expenses.	Rent of Land and Buildings,	Rent of Track and Terminals.	Insurance.	Total General,	Total Operating Expenses.
\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.
2,201 65 24,323 22 575 04 690 51 307 57 8 77 173 15 731 15 2,078 30 2,452 68 4,159 67 3,076 32 13,665 88 3,078 33 521 78 9,830 23 521 78 9,830 23 521 78 7,024 41 93,576 62 5,030 68 1,955 63 3,757 67 75 00 55,031 11 31 75 1,214 00 289 24 859 18 163 40 1,200 08 8,517 00 73 00 2,984 39 81,361 49 21 00 2,984 39 81,361 49 21 00 8,341 04	704 09 704 09 80 00 500 00	210 00  1,028 70 5,962 09  731 13  334 86 142 90 331 62  464 10 565 93 1,968 92 2,133 31  413 59  487 86  1,409 47 21,015 10 1,342 83 299 38 895 77 166 66  87 80 305 66 692 88 108 30 316 28 1,104 75 25 00 500 00 591 98 9,362 96 890 23 446 58	467 14 100 00 320 00 306 25 386 64  100 35 1,208 32  280 00 3,451 26 1 00 97 11 18 50  10,459 84 1,887 41  167 50  81 00 290 00 180 00 792 31 336 11	321 63 1,711 07 5,585 69 29,339 69 29,339 69 107 61 688 30 881 57 372 94 3,603 23 6,361 96 8,945 49 4,938 60 1,200 00 1,200 00 1,200 00 1,022 84 863 28	1,592 99 110 i.0 576 i.0 176 i.0 176 i.0 176 i.0 1772 i.0 1772 i.0 178	5,069 67 3,172 59 19,827 70 173,992 09 8,058 61 12,153 22 6,016 76 4,146 93 16,873 47 9,247 71 4,234 24 12,857 91 11,308 43 22,899 73 26,391 27 49,736 32 16,175 95 4,866 55 12,755 71 9,515 27 22,932 80 10,974 73 32,983 98 274,757 16 12,149 69 16,981 38 22,901 48 31,211 17 740 49 7,878 20 99,994 00 6,104 32 4,571 11 5,894 10 22,540 81 30,007 99 10,757 45 11,664 62 8,031 36 17,826 99 4,477 99 2,499 09 18,928 39 220,594 09 4,028 38 33,435 05	24,313 98 5,273 97 67,913 41 1,210,855 59 87,263 36 54,771 70 46 439 42 20,700 62 75,891 66 70,012 26 22,626 81 116,275 59 34,442 53 82,422 68 101,756 92 230,914 70 34,301 97 31,508 17 56,150 85 168,540 12 69,311 88 221,603 85 221,603 85 221,603 85 221,603 85 24,337,907 73 106,819 24 39,899 31 82,842 63 173,866 61 3,971 87 49,237 54 466,530 96 26,272 70 74,373 14 208,679 77 106,087 82 104,917 25 31,677 24 32,593 72 154,099 78 25,991 69 26,421 87 65,508 33 2,114,092 41 28,623 36 216,067 17
930 10	1,563 52	446 58			5,235 91	16,715 92 24,722 15 1,308 43	72,827 79 630,891 17 14,685 81
342,120 26	8.784 32	54,336 64	20,936 74	98,753 70	118,930 80	1,406,943 49	

## ELECTRIC RAILWAYS.

Table 6.--Summary Statement of Description of Equipment for the Year ending June 30, 1910.

					1 GEORGE V., A. 191	1	
			Zumber.		- 100040001-00 01101014004001001	23	
	13		Total Cars of all Classes,	No.	5 2 2 2 2 2 2 2 2 2 2 3 4 2 4 2 4 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5	46	
	12		Miscellaneous Cars.	No.	e = 28	1	
	11		Sweepers.	No.	-	63	
	10	Отнев Савз.	Snow Ploughs.	No.		2	
	6	Отнев	Work Cars.	No.		4	
	oc .		Cars.	No.	.2 .2	:	
	[		Mail, Express and Baggage	No.			
	9		Freight Cars.	No.	1 2 2 2 1 1 01	_	
	12	PASHENGER CARS.	Totol Passenger   Cars.	No.	21 28 28 28 28 28 28 28 28 28 28 28 28 28	33	
	ਜਾ		PASSENGER CARS.	Open Passen- Open Passen- ger Cars.	No.	944 K	10
	co			Open Passenger Cars.	No.	4 50 5004 Groffene 885 50 4	16
	03		Closed Passenger	No.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	<b>!</b> ~	
	1		Name of Railway.		1 Berlin and Waterloo. 2 Berlin and Bridgeport 3 Brautford and Hamilton 4 British Columbia. 5 Calgary Municipal 6 Cape Freton. 7 Chatlan, Wallaceburg and Lake Erie 8 Cornwall. 9 Galt, Treston and Hespeler. 1 Leased line—Preston to Berlin 10 Grand Valley. 11 Guelph Radial. 12 Hamilton and Dundas 13 Hamilton Grimsby and Beamsville. 14 Hamilton Street. 15 Hamilton Street. 17 Hull 18 Kinternational Transit Co. 18 Kinternational Transit Co. 19 Kinternational Transit Co. 20 Levis County. 21 London. 22 London. 22 London. 23 London. 24 London and Lake Erie Railway and Transportation. 26 London.	23 Montreal Park and Island.	
			Number.		- 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33	

ရှိတို့ ကိ	50.00	°#5	161	ာ င္ဂ	76	45	13	53	17	14	20,000	09	922	00	3,789
63	ଷଳ				1		:			=======================================		: 1	1 1	-	103
0,			21		6			<b>→</b>		16	7		: 67	:	97
* ea	es		† <del></del>	21	। <del>प्</del> रा	-	:	<del>.</del>		1		က			62
<u> </u>		: ::	9	1		8			1		-	90	13	:	87
	\$1	-								:		:	:		t-
			? :	-	:	3	7					90 c	51		25
-	7.	'3 mi		7					:	က	: -	:	51 2		282
ig ∞	8 63 7	# 1~ -	117	o	80	2 88 88 5	12	51	16	10	17	Ŧ°	918	2	3,126
	5	-			:					937		:	:		337
18	18 16	G1 5	9	· co	97	16	67	56	10	106	* t =	7	333	300	166
12 x	3=	. <del></del>	ဦ သ ၊	- E	04	2 61	10	£3°	. o	10	100	37	180	71	1,795
Jounties	27 Niegare Falls, Park and River. 28 Nagara, St. Catharines and Toronto		32 Peterborough Radial		35 Quebec Ry., Light and Power Co. (Citadel)		38 Sarnia 39 Sherbrooke Street.	40 St. John	42 St. Thomas.	43 Sydney and Glace Bay			14 Windsor, Essex and Lake Shore Kapid		

# ELECTRIC RAIWAYS-Concluded.

Table 7.—Summary Statement of Accidents for the Year ending June 30, 1909.

							1 G	EORGE	V., A.	911
	13		Total.	No.	17 17 225 4	. C3	23 118 36 54 526	5 9 85	28 576 20	30.2
	12	TOTALS.	Injured.	No.	1 17 201 3	: -	23 35 525 7	5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	26 550 18	23.62
	11		Killed.	No.	24	1			61 8 61	
	10		Total.	No.	11123	: -	- 5 2 2 2 2 c	1 24	233 13 13	18
	6	Отнекв.	Killed. Injured.	No.	1 11 2 3	1	22 22 221 221	233	9 213 11	17.
	os.		Killed.	No.	∞ ↔			1	28.2	-
	E-	EMPLOYEES.	Total.	No.	w # 1	: -	म दिलालका		25.	
	9		Injured.	No.			ଫ ଜଗଟର		100 c3	
	າວ		Killed, Injured.	No.	6					
	71	Passkngers.	Total.	No.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		30 30 301		17 312 5	
1	20		Injured.	No.	1533		113 123 301 301		315	-=
	21		Killed.	No.	t-					
		Name of Railway	ултре		1 Berlin and Waterloo. 2 Berlin and Bridgeport. 3 Branford and Hamilton 4 British Columbia 5 Calgary Municipal 6 Cape Breton 7 Chatham, Wallaceburg and Lake Erre		11 Guelph Radial. 12 Halifax 13 Hanilten and Dundas. 14 Hamilten, Grimsby and Beamsville. 16 Hamilton Radial. 16 Hamilton Street. 17 Hull.	15 Interflux both 1 Parish Co. 20 [Lordon Portsmouth and Catarrequi. 20 [Lordon Portsmouth and Catarrequi. 21 Lordon 1 Parish Portsmouth Portsmouth Co. 21 Lordon 1 Parish Portsmouth Co. 21 [Lordon Portsmouth P	23 Montreal Park and Island 24 Montreal Street 25 Montreal Terminal 26 Montreal Terminal	27 Niagara Falls Park and River 28 Niagara, St. Catharines and Toronto



### INDEX

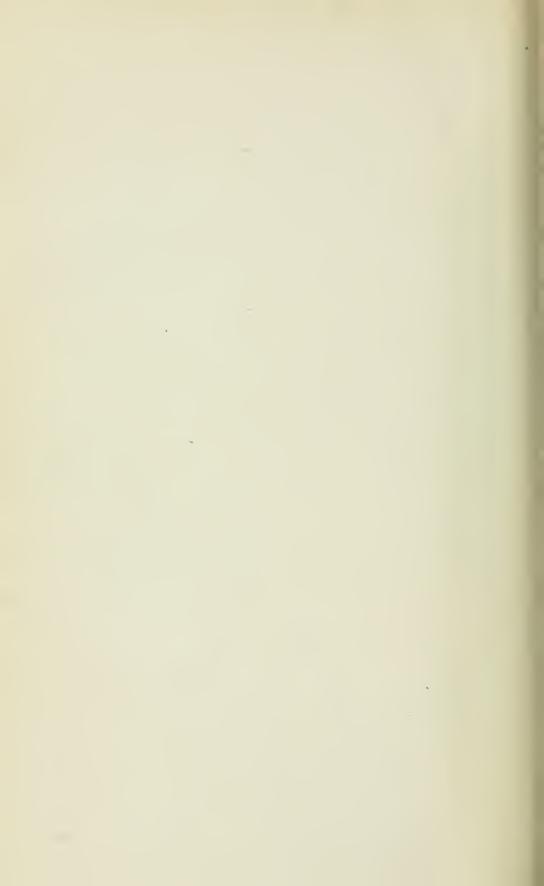
	D. on
Aceidents—Summary of steam railways	202-203
Bridges—Number of	$152 - 163 \\ 28 - 35$
Capital—Railway, elassification of	XXVIII 102-109 142-144 145-147 148-151 142-147 152-163 XXXIII 164-175 110-141 XXVIII XXVIII
Derailments	164–181 36–45
Earnings—Gross. XXI,  Net XXII,  Summary of, from all sources XXII,  per passenger per mile XVIII,  per ton per mile XIX,  per passenger train mile XXII,  per freight train mile XIX,  per mile of road.  Electric railways, summary.	46-55 46-48 46-55 49-51 52-55 49-51 53-55 XXH XLV

, D. or
Employees, number of railway.  "accidents to.  Enginemen, number of XXXVIII  Equipment, summary of XXIX, 142–147  Expenses, general summary of XXI, XXVI, 56–101  operating per train mile XXVIII  Express, revenue from XXII, XXIII, 49–51
Falling from trains, accidents resulting from         XXXV, 164-181           Fatalities, total number of         XXXIV, XXXV, 164-181           Firemen, total number of         XXXVIII           Freight, train mileage         XIX, 102-109           In total number of tons carried         XIX, XX, 105-107           In carried one mile, tons of         XIX, 105-107           In carried one mile per mile of line         XIX           In cars, by capacity, classification of         XXXX, 148-151           In earnings         XIX, 46-55           In revenue         XIX, 46-55           In locomotives number of         XXIX, 142-144           In tonnage originating on roads         XXII, 110-141           In received from connecting roads         XXII, 110-141           Fuel for locomotives         XXXIIII
General administration, employees assigned to.  General expenses
Haul, average per ton XIX Highway crossings, accidents at XXXVI, 164–181 Highway crossings. XXXVII
Journey, per passenger, average
Land grants         XV           Leased cars, number of         142-147           Line of proprietary companies         14-21           Line operated under contract         14-21           " lease         14-21           " trackage rights         14-21           Location of railways         3-13           Locomotives, classification of         XXIX, 142-144           " per mile of line         XXX
Machinists, number of.XXXVIIIMails—Revenue from carrying.XXII, XXII, 49-51Maintenance of equipment, expenditures charged toXXVII, 64-73Maintenance of way and structures, expenditures charged toXXVII, 56-66Manufactures, movement of.XX, 110-141Men employed on railways.XXXVIIMerchandise, movement of.XX, 110-141Mileage.VII, VIII, 14-21n classification of, by tracks*14-21n classification of, by provincesVIII, 22-27n single track.VIII, 14-21n mileage under constructionVII

	Page.
Mileage second track	C 14-21
all tracks	
yard tracks and sidings	
Mines movement of products of	110 - 141
Miscellaneous obligations.	28-35
Municipal aid, granted and paid XI	7, 36-45
Net earningsXXI	J, 46-48
Obligations, equipment trust	28 - 35
Operating expenses	
Other earnings, from freight serviceXXI	V, 46-48
from passenger service	1, 46–48
Other employees, accidents toXXXV,	171-179
Overhead obstructions, accidents due to	104-111
Passengers, average journey per	
total number carried	102-104
a acoidents to	165, 180
Passenger cars, number of XXIX, cars, classification of XXIX,	142-144
earnings	
locomotives	1.40-40
revenueXVII	
" earnings per train mile train mileage	102=104
Proprietary companies, lines of	14-21
Products of agriculture, movement of XX,	110-117
anima s, movements of XA,	
forests, movements of XX,	
mines, movements of	
Provincial government, aid granted and paidX1I	1, 36-45
Public service of railways	ZVII
Railway accidents	164-181
classification of	
comparative summary of	
Revenue, average from each passenger carried	XIX
nom each ton of freight carried	27.1.27
Second track, number of miles of	14-21
Section foremen, number of	111777
Sidings, yard track, mileage of	141
Single track, number of miles of	14-21
Station agents, number of	
	154-181
Stations, accidents at	164-181
Stocks, total amount of railway	7, 28-35
Struck by trains or cars, accidents due to XXXV,	164-181
Subsidies, total amount prid	1, 36-45
Dominion Government	
Provincial Governments	I. 36-45
	1 110
Sub idies, municipalities X1 Summary of statistics X1	

	Page.
Table 1, location of railways	3-13
" 2, railway mileage	14-21
" 3, railway mileage in provinces	22-27
" 4, railway capital	28-35
" 5, aid to railways	36-45
" 6, income account	46-48
" 7, earnings	49-55
" 8, classification of operating expenses	56-101
9, summary of passengers and tons, carried	102-107
" 10, train mileage	108-109
" 11, summary of freight traffic	110-141
" 12, summary of equipment	142-147
" 13, summary of cars in freight service—by capacity	148-151
" 14, characteristics of roads	152 - 163
" 15, summary of accidents	164-181
Taxation of railways	XXXXX
Telegraph operators and dispatchers, number of	HIVXXX
accidents to XXXV	, 164–181
	XIX
Tons carried, total number of XIX	, 105-107
one mile XIX	, 105–107
one line per mile of line	XIX
	14-21
TratficYV	III, XIX
Trainmen, number of	$\Pi \mapsto XXX$
accidents to	164-181
Train, mileage, freightXXX, XXXI	1, 108109
passenger	, 108–109
Trestles, number of	159-163
Trespassing and non-trespassing, accidents due to	175
Tunnels, number of	161–163
Watchmen, switch tenders, &c., number of	XXVIII
accidents to	, 168–169
Way and structures, maintenance of, expenditures charged toXX	VI, 56–66
Yard track and sidings, mileage of	A, 14-21









### University of Toronto Library

DO NOT
REMOVE
THE
CARD
FROM
THIS
POCKET

Acme Library Card Pocket Under Pat. "Ref. Index File" Made by LIBRARY BUREAU

