

## Technical and Bibliographic Notes / Notes techniques et bibliographiques

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

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

- ☐ Coloured covers /  
Couverture de couleur
- ☐ Covers damaged /  
Couverture endommagée
- ☐ Covers restored and/or laminated /  
Couverture restaurée et/ou pelliculée
- ☐ Cover title missing /  
Le titre de couverture manque
- ☐ Coloured maps /  
Cartes géographiques en couleur
- ☐ Coloured ink (i.e. other than blue or black) /  
Encre de couleur (i.e. autre que bleue ou noire)
- ☐ Coloured plates and/or illustrations /  
Planches et/ou illustrations en couleur
- ☐ Bound with other material /  
Relié avec d'autres documents
- ☐ Only edition available /  
Seule édition disponible
- ☒ Tight binding may cause shadows or distortion  
along interior margin / La reliure serrée peut  
causer de l'ombre ou de la distorsion le long de la  
marge intérieure.

- ☐ Coloured pages / Pages de couleur
- ☐ Pages damaged / Pages endommagées
- ☐ Pages restored and/or laminated /  
Pages restaurées et/ou pelliculées
- ☒ Pages discoloured, stained or foxed/  
Pages décolorées, tachetées ou piquées
- ☐ Pages detached / Pages détachées
- ☒ Showthrough / Transparence
- ☒ Quality of print varies /  
Qualité inégale de l'impression
- ☐ Includes supplementary materials /  
Comprend du matériel supplémentaire
- ☐ Blank leaves added during restorations may  
appear within the text. Whenever possible, these  
have been omitted from scanning / Il se peut que  
certaines pages blanches ajoutées lors d'une  
restauration apparaissent dans le texte, mais,  
lorsque cela était possible, ces pages n'ont pas  
été numérisées.

- ☒ Additional comments /  
Commentaires supplémentaires:

Various pagings.

In Sessional paper No. 14, Annual report of the Department of Interior ...  
1889, pagination is as follows: [2], [i]-iv, [ix]-xxx.

# SESSIONAL PAPERS,

141 - 15

---

VOLUME 11.

FOURTH SESSION OF THE SIXTH PARLIAMENT

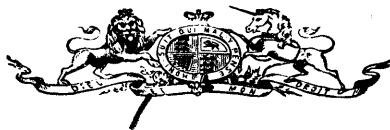
OF THE

DOMINION OF CANADA.

---

SESSION 1890.

---



---

VOLUME XXIII.



---

OTTAWA :

Printed by BROWN CHAMBERLIN, Printer to the Queen's Most Excellent Majesty.

1890.

---

See also Numerical List, page 5.

# ALPHABETICAL INDEX

## TO THE

# SESSIONAL PAPERS

## OF THE

# PARLIAMENT OF CANADA.

FOURTH SESSION, SIXTH PARLIAMENT, 1890.

<b>A</b>	
Adams, John.....	36
Adulteration of Food .....	1b
Advisory Council, North-West Territories...	33d
Agricultural Implements .....	81
Agriculture, Annual Report .....	6
American Vessels carrying bonded freight...	37
Anderson Steamship Service.....	94
Annapolis, Nova Scotia.....	56
Appropriation Accounts of 1889 .....	33k
Archives, Canadian .....	6b
Auditor General, Annual Report.....	5

<b>B</b>	
Bank of British Columbia.....	30b
Bank of British North America.....	30b
Baptisms, Marriages and Burials.....	100
Batoche Electoral District.....	71
Beauharnois Junction Railway.....	42c
Bécancour Station and St. Julie de Somerset, Mail between.....	21a
Beds of Harbors, Rivers, etc.....	74
Board of Examiners, Civil Service.....	7b
Bonds and Securities.....	32
Breakwater at Tignish.....	58
British Canadian Loan and Investment Co...	44
British Columbia, Settlers' Petitions .....	76
Budget Speech.....	38

<b>C</b>	
Campbellton and Gaspé Basin, Mails between.	21d
Canadian Archives.....	6b
Canada Atlantic Railway.....	42b
Canadian Flour.....	97

<b>C</b>	
Canadian Immigration and Emigration .....	6*
Canadian Pacific Railway .....	31 to 31c
Lands sold.....	31
Correspondence with Interior Department	31a
Subsidies for Steamships.....	31b
Bridges on Branch Lines .....	31c
Cars on Intercolonial Railway .....	41f
Cascumpeque Harbor.....	59c
Casualties on Intercolonial Railway .....	41e
Caughnawaga Indians.....	43b, 43c
Chambly Canal .....	46b
Chartered Banks.....	4, 30c
Charters of Banks .....	30b
Chatham, McGregor's Creek.....	79
Chinese Immigration.....	64
Chisholm, Kenneth .....	63
Civil Service Board of Examiners.....	7b
Civil Service List .....	7a
Civil Service Superannuations .....	28
Commissioner, Dominion Police.....	23
Commissioner, North-West Mounted Police.	13
Copyright Act.....	35
Cove Head Harbor .....	59
Criminal Statistics.....	6a, 6a*
Cullers' Office, Quebec.....	28a

<b>D</b>	
Damages by Intercolonial Railway.....	41c
Damages to Government property.....	87a, 87c
Dam at Hungry Bay.....	89
Deposits in Savings Banks.....	30, 30a
Derby Branch Railway.....	40
Dominion Lands Regulations.....	26

<b>D</b>		<b>I</b>	
Dominion Police Commissioner .....	23	Intercolonial Railway :.....	41 to 41g
Dredge "Prince Edward" .....	60	St. Jean Chrysostôme Station. ....	41
Dundas and Waterloo Macadamized Road...	54	Property sold in Lévis. ....	41a
<b>E</b>		Petitions from employees.....	41b
Eau Clair and Bow River Lumber Co.....	33l	Damage to Properties.....	41c
Eggs, Exports and Imports of .....	93	Insurance Scheme.....	41d
Electoral Lists .....	39	Casualties to trains.....	41e
Esquimalt Graving Dock .....	59g	Officials' Cars.....	41f
Estimates, 1890-91.....	3	Freight Rates, etc.....	41g
Expenditures and Receipts.....	29, 75	Interprovincial Bridge over Ottawa River...	80
Experimental Farms, Annual Report.....	6c	Inverness and Ste. Julie de Somerset, Mail between .....	21a
<b>F</b>		Island Railway Reserve, B.C.....	76
Fisheries, Annual Report.....	17	<b>J</b>	
Fisheries Protection Service. ....	17b	Jesuits' Estates Act.....	70
Fleming, Sandford, Report of.....	65, 65a	Justice, Annual Report.....	10
Floating Lights.....	83, 83a	<b>K</b>	
Flour, Canadian .....	97	Kamouraska Wharf.....	57a
Fort la Corne Half-breeds .....	33h	Kettle Creek.....	52
Freight Rates, etc.....	41g	Kinistino Electoral District.....	71
French Language, North-West Territories. 33b, 33e		<b>L</b>	
<b>G</b>		Lake St. Peter, Floating Light in.....	83
Garneau, Joseph.....	55	Legislative Assembly, North-West Terri- tories .....	33, 33a
Geological Survey Reports.....	73	Lévis Post Office.....	56a
Gordon, Lieut., Report of .....	87b	Lévis, Property sold in.....	41a
Governments of Ontario and Quebec.....	74	Library of Parliament, Annual Report.....	8
Governor General's Warrants.....	22	Liquor License Act.....	91, 91a
Graving Dock, Esquimalt .....	59g	Lobster Factories in P.E.I. ....	25
Great Eastern Railway .....	67	Losses of Ships.....	72
Grosse Isle Quarantine .....	62	Lotbinière, Floating Light in.....	83a
<b>H</b>		Lourdes and Somerset, Mail between.....	21
Half-breed Claims.....	33c	<b>M</b>	
Half-breeds at Fort la Corne.....	33h	Mail between Bécancour Station and Ste. Julie de Somerset.....	21a
Hall's Harbor, Nova Scotia.....	59f	Mail between Lourdes and Somerset.....	21
Harbor Works, Quebec.....	59g	Mail between Inverness and Ste. Julie de Somerset .....	21a
Harvey-Moncton Section of Railway.....	84	Mails between Campbellton and Gaspé Basin	21d
Herring Fishing Industry .....	17a	Mails in Prince Edward Island .....	21b
High Commissioner, Report of.....	6d	Marine and Emigrant Hospital, Quebec....	48, 48a
Homesteads in North-West Territories.....	33f	Marine, Annual Report .....	16
Hungry Bay Dam .....	89	Matane Branch Railway.....	90
Hurrell, Private C. J.....	51, 51b	Military District No. 1.....	92
Hydraulic Lots.....	66, 66a	Militia and Defence, Annual Report.....	11
<b>I</b>		Militia and Defence, Changes in Department of .....	92a
Immigration and Emigration, Canadian.....	6*	Miscellaneous Expenses .....	24
Indian Affairs, Annual Report.....	12	Montreal Court House.....	78
Indian Reserves .....	43, 43b	<b>Mc</b>	
Indians, Intoxicating liquors sold to.....	43a	McGirr, William.....	61
Inland Revenue, Annual Report.....	1	McGregor's Creek, Chatham.....	79
Inspectors of hulls of steamers.....	45		
Insurance Companies.....	9a, 9b		
Insurance, Report of Superintendent.....	9		
Interior, Annual Report .....	14		
Interior Department, Clerks in .....	50		

## N

New Brunswick Vice-Admiralty Court.....	47
New London Harbor.....	59a
North-West Mounted Police.....	13
North-West Territories :.....	33 to 33o
Resolutions of Legislative Assembly.....	33
Memorials for Legislative Assembly.....	33a
Separate Schools and French Language.....	33b
Half-breed Claims.....	33c
Resignation of Advisory Council.....	33d
Printing in French.....	33e
Second Homesteads.....	33f
Registry Offices.....	33g
Half-breeds at Fort la Corne.....	33h
Seed Grain.....	33i, 33j
Appropriation Accounts.....	33k
Eau Clair and Bow River Lumber Co....	33l
St. Albert Bridge.....	33m
Pasture Lands.....	33n
List of Schools.....	33o
Nova Scotia Vice-Admiralty Court.....	47

## O

Ontario and Quebec Governments.....	74
Ontario Manufacturers' Association.....	86
Ottawa City and the Government.....	69
Ottawa River Interprovincial Bridge.....	80

## P

Pagans in Census Returns.....	98
Palmer Road Post Office.....	56b
Pasture Lands leased.....	33n
Petitions from Intercolonial Railway employees.....	41b
Pictou Harbor and Public Buildings.....	59e
Pierreville Post Office.....	56c
Pinette Harbor.....	59a
Postmaster General, Annual Report.....	15
Post Office, Quebec.....	28b
Prince Edward Island, Dredging in.....	60
Prince Edward Island, Mails in.....	21b
Prince Edward Island, Wharves, etc., in....	58a
Président et Sydics, Seigneurie d'Yamaska..	53
Prieur, Arthur.....	77
Printing Bureau.....	95
Public Accounts, Annual Report.....	3
Public Buildings.....	96
Public Printing and Stationery.....	7c
Public Works, Annual Report.....	18

## Q

Quarantine Regulations, Grosse Isle.....	62
Quebec and Ontario Governments.....	74
Quebec, Cullers' Office.....	28a
Quebec Harbor Works.....	59g
Quebec Marine and Emigrant Hospital....	48, 48a
Quebec Post Office.....	28b
Quebec Vice-Admiralty Court.....	47
"Quinté," Loss of steamer.....	87

## R

Railways and Canals, Annual Report.....	19
Railways built by Dominion.....	42, 42a
Railway Statistics.....	19a
Railway Subsidies.....	42d
Receipts and Expenditures.....	29, 75
Registered Letter sent to Dead Letter Office.	21c
Registry Offices, North-West Territories....	33g
Regulations affecting Dominion Lands.....	26
Report on Social Economy.....	20
River Thames.....	54a
Rivière du Sud.....	53b
Rocky Mountains Park.....	27
"Rooth," Seizure of tug.....	99
Royal Military College.....	68

## S

Saskatchewan Land and Homestead Co....	82, 82a
Saskatchewan Provisional District.....	71
Savings Banks.....	30, 30a
Sawdust in Ottawa River.....	65, 65a
Schools in the North-West.....	30o
Schreiber, Collingwood, Report of.....	84
Secretary of State, Annual Report.....	7
Seed-grain, Purchase and distribution of... 33i, 33j	
Seizure of the tug "Rooth".....	99
Self-binders, Reapers and Mowers.....	81
Separate Schools, North-West Territories....	33b
Shareholders in Banks.....	4
Ships, Losses of.....	72
Short Line Railway.....	84
Social Economy, Report on.....	20
St. Albert Bridge.....	33m
Steamboat Inspection.....	16a
St. Jean Chrysostôme Station.....	41
St. Roch-des-Aulnets Wharf.....	57
Subsidies to Beauharnois Junction Railway..	42c
Subsidies to Canada Atlantic Railway.....	42b
Subsidies to Railways.....	42, 42a, 42d
Sud, Rivière du.....	53b
Sultana Island.....	49, 49a
Superannuation in Cullers' Office, Quebec...	28a
Superannuations, Civil Service.....	28
Supplementary Estimates.....	3

## T

Telegraph Line along Cape Breton Railway..	88
Temperance Colonization Co.....	82, 82a, 82b
Thames River.....	54a
Tignish Breakwater.....	58
Timber Limits.....	36a
Toronto Harbor Works.....	59d
Tracadie Harbor.....	59b
Trade and Navigation, Annual Report.....	2
Trent Valley Canal Commission.....	46a

## V

Valiquette's Pension.....	51a, 51c
Vice-Admiralty Courts.....	47

W		W	
Warrants, Governor General's.....	22	Wharf at St. Roch-des-Aulnets.....	57
Weights, Measures and Gas.....	1a	Wiggins, John.....	101
Welland Canal, Report of A. F. Wood....	46, 46c	Wood's Island.....	59a
Western Union Telegraph Co.....	88	Y	
West India Steam Service.....	85		
Wharf at Kamouraska.....	57a	Yamaska River.....	53, 53a

See also Alphabetical Index, page 1.

## LIST OF SESSIONAL PAPERS,

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

### CONTENTS OF VOLUME No. 1.

1. Report, Returns and Statistics of the Inland Revenues of the Dominion of Canada, for the fiscal year ended 30th June, 1889. Presented to the House of Commons, 17th January, 1890, by Hon. J. Costigan.....*Printed for both Distribution and Sessional Papers.*
- 1a. Inspection of Weights, Measures and Gas, being a Supplement to the Report of the Department of Inland Revenue, 1889.....*Printed for both Distribution and Sessional Papers.*
- 1b. Report on Adulteration of Food, being a Supplement to the Report of the Department of Inland Revenue, 1889.....*Printed for both Distribution and Sessional Papers.*

### CONTENTS OF VOLUME No. 2.

2. Tables of the Trade and Navigation of the Dominion of Canada, for the fiscal year ended 30th June, 1889. Presented to the House of Commons, 17th January, 1890, by Hon. M. Bowell—  
*Printed for both Distribution and Sessional Papers.*

### CONTENTS OF VOLUME No. 3.

3. Public Accounts of Canada, for the fiscal year ended 30th June, 1889; presented to the House of Commons, 17th January, 1890, by Hon. G. E. Foster. Estimates for the fiscal year ending 30th June, 1891; presented 30th January, 1890. Supplementary Estimates of Canada, for the fiscal year ending 30th June, 1890; presented 27th March, 1890. Further Supplementary Estimates for the fiscal year ending 30th June, 1890; presented 25th April, 1890. Supplementary Estimates for the year ending 30th June, 1891; presented 6th May, 1890—  
*Printed for both Distribution and Sessional Papers.*
4. List of Shareholders in the Chartered Banks of the Dominion of Canada, as on the 31st December, 1889. Presented to the House of Commons, 9th April, 1890, by Hon. G. E. Foster—  
*Printed for both Distribution and Sessional Papers.*

### CONTENTS OF VOLUME No. 4.

5. Report of the Auditor General on Appropriation Accounts, for the year ended 30th June, 1889. Presented to the House of Commons, 27th January, 1890, by the Hon. G. E. Foster—  
*Printed for both Distribution and Sessional Papers.*

### CONTENTS OF VOLUME No. 5.

6. Report of the Minister of Agriculture for the Dominion of Canada, for the calendar year, 1889. Presented to the House of Commons, 20th March, 1890, by Hon. J. Carling—  
*Printed for both Distribution and Sessional Papers.*
- 6\*. Canadian Immigration and Emigration. Annex to the Report of the Minister of Agriculture—  
*Printed for both Distribution and Sessional Papers.*
- 6a. Criminal Statistics for the year 1888.....*Printed for both Distribution and Sessional Papers.*
- 6a\*. Criminal Statistics for the year 1889.....*Printed for both Distribution and Sessional Papers.*

---



---

## CONTENTS OF VOLUME No. 6.

- 6b.** Report on Canadian Archives, 1890. Presented to the House of Commons, 10th February, 1890, by Hon. J. Carling.....*Printed for both Distribution and Sessional Papers.*
- 6c.** Reports of the Director and Officers of the Experimental Farms, for the year 1889. Presented to the House of Commons, 9th April, 1890, by Hon. J. Carling—  
*Printed for both Distribution and Sessional Papers.*
- 6d.** Report of the High Commissioner for Canada, with Reports from Agents in the United Kingdom, for the year 1889. Presented to the House of Commons, 9th April, 1890, by Hon. J. Carling—  
*Printed for both Distribution and Sessional Papers.*

## CONTENTS OF VOLUME No. 7.

- 7.** Report of the Secretary of State of Canada, for the year ended 31st December, 1889. Presented to the House of Commons, 29th January, 1890, by Hon. J. A. Chapleau—  
*Printed for both Distribution and Sessional Papers.*
- 7a.** The Civil Service List of Canada, 1889. Presented to the House of Commons, 3rd February, 1890, by Hon. J. A. Chapleau.....*Printed for both Distribution and Sessional Papers.*
- 7b.** Report of the Board of Examiners for the Civil Service of Canada, for the year ended 31st December, 1889. Presented to the House of Commons, 30th January, 1890, by Hon. J. A. Chapleau—  
*Printed for both Distribution and Sessional Papers.*
- 7c.** Report of the Department of Public Printing and Stationery for the Dominion of Canada, for the year ended 30th June, 1889.....*Printed for both Distribution and Sessional Papers.*
- 8.** Report of the Joint Librarians of Parliament on the state of the Library of Parliament. Presented to the House of Commons, 16th January, 1890, by Hon. Mr. Speaker—  
*Printed for Sessional Papers only.*

## CONTENTS OF VOLUME No. 8.

- 9.** Report of the Superintendent of Insurance, for the year ended 31st December, 1889—  
*Printed for both Distribution and Sessional Papers.*
- 9a.** Preliminary Abstract of the business of Canadian Life Insurance Companies, for the year ended 31st December, 1889. Presented to the House of Commons, 7th February, 1890, by Hon. G. E. Foster.  
*Printed for both Distribution and Sessional Papers.*
- 9b.** Abstract of Statements of Insurance Companies in Canada for the year ending 31st December, 1889. Presented to the House of Commons, 9th April, 1890, by Hon. G. E. Foster—  
*Printed for both Distribution and Sessional Papers.*

## CONTENTS OF VOLUME No. 9.

- 10.** Report of the Minister of Justice as to Penitentiaries in Canada, for the year ended 30th June, 1889. Presented to the House of Commons, 28th March, 1890, by Sir John Thompson—  
*Printed for both Distribution and Sessional Papers.*
- 11.** Annual Report of the Department of Militia and Defence of the Dominion of Canada, for the year ended 31st December, 1889. Presented to the House of Commons, 6th February, 1890, by Sir Adolphe Caron.....*Printed for both Distribution and Sessional Papers.*

## CONTENTS OF VOLUME No. 10.

- 12.** Annual Report of the Department of Indian Affairs, for the year ended 31st December, 1889. Presented to the House of Commons, 22nd January, 1890, by Hon. E. Dewdney—  
*Printed for both Distribution and Sessional Papers.*
- 13.** Report of the Commissioner of the North-West Mounted Police Force, 1889. Presented to the House of Commons, 17th March, 1890, by Sir John Macdonald—  
*Printed for both Distribution and Sessional Papers.*

## CONTENTS OF VOLUME No. 11.

- 14.** Annual Report of the Department of the Interior, for the year 1889. Presented to the House of Commons, 31st March, 1890, by Hon. E. Dewdney—  
*Printed for both Distribution and Sessional Papers.*
- 15.** Report of the Postmaster General, for the year ended 30th June, 1889. Presented to the House of Commons, 23rd January, 1890, by Hon. J. Haggart—  
*Printed for both Distribution and Sessional Papers.*

#### OMISSION.

The two following documents were not printed until the Index was issued, which accounts for their omission :

**6e.** Abstracts of the Returns of Mortuary Statistics for the year 1889. (*Printed for both Distribution and Sessional Papers.*)

[The above paper has been inserted as the first of Volume No. 7, immediately preceding the Report of the Secretary of State.]

**19b.** Canal Statistics for Season of Navigation, 1889. (*Printed for both Distribution and Sessional Papers.*)

[Inserted as last paper in Volume No. 13, immediately following Railway Statistics.]



---

 CONTENTS OF VOLUME No. 12.

- 16.** Twenty-second Annual Report of the Department of Marine, for the fiscal year ended 30th June, 1889. Presented to the House of Commons, 24th February, 1890, by Hon. Mr. Colby—  
*Printed for both Distribution and Sessional Papers.*
- 16a.** Report of the Chairman of the Board of Steamboat Inspection, for calendar year ended 31st December, 1889 .....*Printed for both Distribution and Sessional Papers.*
- 17.** Annual Report of the Department of Fisheries, for the year 1889. Presented to the House of Commons, 16th April, 1890, by Hon. Mr. Colby....*Printed for both Distribution and Sessional Papers.*
- 17a.** Special Report of the delegates appointed in 1889, to enquire into the Herring Fishing Industry of Great Britain and Holland. Presented to the House of Commons, 10th February, 1890, by Hon. C. H. Tupper .....*Printed for both Distribution and Sessional Papers.*
- 17b.** Report on the Fisheries Protection Service of Canada, 1889. Presented to the House of Commons, 10th March, by Hon. Mr. Colby .....*Printed for both Distribution and Sessional Papers.*

## CONTENTS OF VOLUME No. 13.

- 18.** Annual Report of the Minister of Public Works, for the fiscal year 1888-89, on the works under his control. Presented to the House of Commons, 3rd February, 1890, by Sir Hector Langevin—  
*Printed for both Distribution and Sessional Papers.*
- 19.** Annual Report of the Minister of Railways and Canals for the past fiscal year, from the 1st July, 1888, to 30th June, 1889, on the works under his control. Presented to the House of Commons, 3rd March, 1890, by Sir John A. Macdonald....*Printed for both Distribution and Sessional Papers.*
- 19a.** Railway Statistics of Canada, and Capital, Traffic and Working Expenditure of the Railways of the Dominion, 1889. Presented to the House of Commons, 9th May, 1890, by Sir John A. Macdonald—  
*Printed for both Distribution and Sessional Papers.*

## CONTENTS OF VOLUME No. 14.

- 20.** Report of the Social Economy Section of the Universal International Exhibition of 1889 at Paris, prepared by Jules Helbronner, member of the Royal Labor Commission. Presented to the House of Commons, 8th May, 1890, by Hon. M. Bowell. ....*Printed for both Distribution and Sessional Papers.*
- 21.** Return to an order of the House of Commons, dated 20th March, 1889, for copies of all correspondence respecting the establishment of a bi-weekly, in place of a weekly, postal service between Lourdes and Somerset, in the county of Megantic. Presented to the House of Commons, 20th January, 1890.—*Mr. Turcot* .....*Not printed.*
- 21a.** Return to an order of the House of Commons, dated 25th February, 1889, for copies of all correspondence respecting the awarding of the contract for carrying the mail between Becancour Station and Ste. Julie de Somerset, and between Inverness and Ste. Julie de Somerset, awarded in or about the month of April, 1888; also of all tenders connected therewith. Presented to the House of Commons, 20th January, 1890.—*Mr. Turcot* .....*Not printed.*
- 21b.** Return to an order of the House of Commons, dated 2nd March, 1888, for a return of all correspondence by letter or telegram, and all other papers, relative to the conveyance of extra provincial mails in Prince Edward Island since the 1st of September last. Presented to the House of Commons, 20th January, 1890.—*Mr. Davies* .....*Not printed.*
- 21c.** Return to an order of the House of Commons, dated 23rd January, 1890, for a return showing the number of registered letters sent to the Dead Letter Office during the years 1887, 1888 and 1889, up to the 31st December last. Presented to the House of Commons, 29th January, 1890.—*Mr. McMullen* .....*Not printed.*
- 21d.** Return to an order of the House of Commons, dated 3rd February, 1890, for copies of all letters, reports and other correspondence now in the possession of the Postmaster General respecting the carriage of the mails between Campbellton, in the province of New Brunswick, and Gaspé Basin, in the province of Quebec. Presented to the House of Commons, 7th February, 1890.—*Mr. Joncas* .....*Not printed.*
- 22.** Statement of Governor General's Warrants issued and expenditure made under same since last session of Parliament, in accordance with Consolidated Revenue and Audit Act, section 32, sub-section 2. Presented to the House of Commons, 20th January, 1890, by Hon. G. E. Foster—  
*Printed for Distribution only.*
- 23.** Report of the Commissioner, Dominion Police, for the year 1889, under Revised Statutes of Canada chapter 184, section 5. Presented to the House of Commons, 21st January, 1890, by Sir John Thompson .....*Not printed.*

24. Statement of expenditure on account of Miscellaneous Expenses from 12th July, 1889, to 4th January, 1890, authorized by Act 52 Victoria, chapter 1. Presented to the House of Commons, 22nd January, 1890, by Hon. G. E. Foster ..... *Not printed.*
25. Return to an order of the House of Commons, dated 8th February, 1889, for a return of the number of lobster factories round the coast of Prince Edward Island, the number of fines imposed during the season of 1888, the amount of each fine, the names of parties who have paid the fines, and the names of parties who have not paid the same; also the nature of offence in each case. Presented to the House of Commons, 22nd January, 1890.—*Mr. Perry* ..... *Not printed.*
26. Copies of the regulations affecting Dominion Lands which have been sanctioned by the Privy Council since the close of last session of Parliament, in compliance with section 91 of the Dominion Lands Act, chapter 54 of the Revised Statutes of Canada. Presented to the House of Commons, 28th January, 1890, by Hon. J. A. Chapleau ..... *Not printed.*
27. Regulations for the control and management of the Rocky Mountains Park of Canada, sanctioned by Order in Council of the 27th November, 1889. Presented to the House of Commons, 28th January, 1890, by Hon. J. A. Chapleau ..... *Printed for Distribution only.*

### CONTENTS OF VOLUME No. 15.

28. Statement of all superannuations and retiring allowances in the Civil Service, giving the name and rank of each person superannuated or retired, his salary, age and length of service, his allowance and cause of retirement, whether vacancy has been filled by promotion or new appointment, etc., for year ended 31st December, 1889. Presented to the House of Commons, 29th January, 1890, by Hon. G. E. Foster ..... *Printed for Sessional Papers only.*
- 28a. Return to an address of the House of Commons, to His Excellency the Governor General, dated the 22nd January, 1890, for copies of all Orders in Council, correspondence and documents respecting the superannuation of certain employees in the Cullers' Office at Quebec. Presented to the House of Commons, 30th January, 1890.—*Mr. Langelier (Quebec Centre)* ..... *Not printed.*
- 28b. Return to an address of the House of Commons, to His Excellency the Governor General, dated 22nd January, 1890, for copies of all Orders in Council, correspondence and documents respecting the superannuation of certain employés in the Post Office at Quebec, and in the Post Office Inspector's Office at Quebec; and the filling up of the vacancies caused by their superannuation. Presented to the House of Commons, 5th March, 1890.—*Mr. Langelier (Quebec Centre)* ..... *Not printed.*
29. Return to an order of the House of Commons, dated 23rd January, 1890, for a return giving a detailed statement of receipts and expenditures to 1st January, 1890, together with statement of the same for the half year ending 1st January, 1889. Presented to the House of Commons, 29th January, 1890.—*Sir Richard Cartwright* ..... *Printed for Distribution only.*
30. Return to an order of the House of Commons, dated 20th January, 1890, for a return showing the amounts of money deposited in the several savings banks in the Dominion, and in the several post office savings banks, the location of each, and the gross amount of deposits in each on the 30th of June and December last. Presented to the House of Commons, 29th January, 1890.—*Mr. McMullen* ..... *Not printed.*
- 30a. Supplementary return to an order of the House of Commons, dated 20th January, 1890, for a return showing the amounts of money deposited in the several savings banks in the Dominion, and in the several post office savings banks, the location of each, and the gross amounts of deposits in each on the 30th of June and December last. Presented to the House of Commons, 18th February, 1890.—*Mr. McMullen* ..... *Not printed.*
- 30b. Return to an order of the House of Commons, dated 5th February, 1890, for copies of the original charters of the Bank of British North America and of the Bank of British Columbia, and of all amendments thereto. Presented to the House of Commons, 21st February, 1890.—*Mr. Edgar*—*Not printed.*
- 30c. Return to an order of the House of Commons, dated 23rd January, 1890, for a return giving the names of all the chartered banks in Canada that have suspended payment, gone into liquidation, or become insolvent since Confederation, showing the amount of capital stock authorized, the amount of stock subscribed, the amount of stock paid up, the assets and liabilities of said banks at the time of such suspension or failure, the nature of such assets and liabilities, the dates of said charters and the dates of forfeiture or relinquishment of such charters, and dividend paid to bill holders and depositors. Presented to the House of Commons, 2nd April, 1890.—*Mr. Hesson* ..... *Not printed.*
31. Correspondence with the Canadian Pacific Railway Company covering a copy of list of all lands sold by that company during the year ending 1st day of October last, in compliance with section 8 of 49 Victoria, chapter 9. Presented to the House of Commons, 30th January, 1890, by Hon. E. Dewdney ..... *Not printed.*

- 31a.** Return (*in part*) under resolution of the House of Commons, passed on the 20th February, 1882, on all subjects affecting the Canadian Pacific Railway, respecting details as to: 1. Selection of the route. 2. The progress of the work. 3. The selection or reservation of land. 4. The payment of moneys. 5. The laying out of branches. 6. The progress thereon. 7. The rates of tolls for passengers and freight. 8. The particulars required by the Consolidated Railway Act and amendments thereto, up to the end of the previous fiscal year. 9. Like particulars up to the latest practicable date before the presentation of the return. 10. Copies of all Orders in Council and all correspondence between the Government and the railway company, or any member or officer of either, relating to the affairs of the company. Presented to the House of Commons, 30th January, 1890, by Hon. E. Dewdney.....*Printed for Sessional Papers only.*
- 31b.** Return to an address of the House of Commons to His Excellency the Governor General, dated 24th January, 1890, for copies of all correspondence between the Dominion Government and the Imperial Government, and between the Dominion Government and the Canadian Pacific Railway Company in regard to the granting of a subsidy to the latter company for lines of steamships to run between Vancouver, B. C., and Japan and Australia. Presented to the House of Commons, 25th February, 1890.—*Mr. Prior*.....*Not printed.*
- 31c.** Return to an order of the House of Commons, dated 29th January, 1890, for copies of all petitions, letters or other documents addressed to the Government, and complaining of the condition of the bridges on the branch lines of railway worked by the Canadian Pacific Railway Company within the county of Bagot and the neighboring counties. Presented to the House of Commons, 26th February, 1890.—*Mr. Dupont*.....*Not printed.*
- 32.** Detailed statement of all bonds or securities registered in the Department of the Secretary of State of Canada, submitted to the Parliament of Canada under section 23, chapter 19, of the Revised Statutes of Canada. Presented to the House of Commons, 3rd February, 1890, by Hon. J. A. Chapleau.....*Not printed.*
- 33.** Return to an address of the House of Commons, to His Excellency the Governor General, dated 27th January, 1890, for copies of all resolutions of the Legislative Assembly of the North-West Territories, respecting the application of moneys voted by this House for the use of the said territories. Presented to the House of Commons, 10th February, 1890.—*Hon. Mr. Laurier*.....*Not printed.*
- 33a.** Return to an address of the House of Commons, to His Excellency the Governor General, dated 3rd February, 1890, for copies of all memorials, petitions and resolutions of the Legislative Assembly of the North-West Territories passed at its last session, whether addressed to His Excellency the Governor General or to the Parliament of Canada. Presented to the House of Commons, 10th February, 1890.—*Mr. Daly*.....*Not printed.*
- 33b.** Copies of the several petitions presented to Council against the abolition of separate schools and the French language in the North-West Territories. Presented to the House of Commons, 11th February, 1890, by Mr. Colby.....*Not printed.*
- 33c.** Return to an address of the House of Commons, to His Excellency the Governor General, dated 27th January, 1890, for copies of all resolutions of the Legislative Assembly of the North-West Territories, respecting the settlement of the Half-breed claims. Presented to the House of Commons, 21st February, 1890.—*Hon. Mr. Laurier*.....*Not printed.*
- 33d.** Return to an address of the House of Commons, to His Excellency the Governor General, dated 27th January, 1890, for copies of all Orders in Council, despatches, correspondence and documents relating to the resignation of the Advisory Council of the North-West Territories, and the appointment of their successors. Presented to the House of Commons, 24th February, 1890.—*Mr. White (Renfrew)*.....*Not printed.*
- 33e.** Return to an order of the House of Commons, dated 23rd January, 1890, for a return showing, by years, the cost of printing the Ordinances and other official papers and publications in the French language from the time of the passage of the North-West Territories Act of 1877. 2. The number of copies of the Ordinances from time to time printed in said language. 3. The number distributed and the number remaining in stock. Presented to the House of Commons, 25th February, 1890.—*Mr. Denison*.....*Printed for both Distribution and Sessional Papers.*
- 33f.** Return to an order of the House of Commons, dated 24th February, 1890, for a copy of the memorials sent by Joseph Holden and John Shera to the Hon. Edgar Dewdney, Minister of the Interior, respecting second homesteads in the Territories. Presented to the House of Commons, 26th March, 1890.—*Mr. Davin*.....*Not printed.*
- 33g.** Return to an Order of the House of Commons, dated 24th February, 1890, for a return showing receipts and expenses of each North-West Territories Registry Office from 1887 to 1889. Presented to the House of Commons, 26th March, 1890.—*Mr. Davin*.....*Not printed.*

- 33h.** Correspondence in relation to certain assistance afforded to the Half-breeds at Fort la Corne and other places. Presented to the House of Commons, 1st May, 1890, by Hon. E. Dewdney—*Not printed.*
- 33i.** Statement respecting the purchase of seed grain (including a schedule of prices paid for wheat and oats). Presented to the House of Commons, 1st May, 1890, by Hon. E. Dewdney....*Not printed.*
- 33j.** Statement respecting distribution of seed-grain and instructions as to the distribution thereof. Presented to the House of Commons, 1st May, 1890, by Hon. E. Dewdney.....*Not printed.*
- 33k.** Memorandum with reference to the appropriation accounts of 1889, for certain of the provinces and the North-West Territories. Presented to the House of Commons, 1st May, 1890, by Hon. E. Dewdney.....*Not printed.*
- 33l.** Statement regarding the claim of the Eau Clair and Bow River Lumber Company against the Government for lumber alleged to have been taken off their limits. Presented to the House of Commons, 1st May, 1890, by Hon. E. Dewdney.....*Not printed.*
- 33m.** Correspondence, etc., respecting the St. Albert Bridge. Presented to the House of Commons, 1st May, 1890, by the Hon. E. Dewdney.....*Not printed.*
- 33n.** Return to an order of the House of Commons, dated 21st April, 1890, for a return showing: 1. The number of acres of pasture land now under lease in the North-West Territories. 2. The amount paid the Government for rental of grazing leases during the past year. 3. The amount due the Government for arrears on pasture leases, and the names of the lessees in arrears for pasture lease rental. 4. The names of the lessees holding leases of territory upon which settlers are not allowed to take up land without the consent of the lease-holder, with the total area of such leases, and the location of each. Presented to the House of Commons, 9th May, 1890.—*Mr. Charlton—Not printed.*
- 33o.** List of schools under different denominations in the North-West Territories, 1889. Presented to the House of Commons, 12th May, 1890, by Hon. E. Dewdney.....*Not printed.*
- 34.** See *Sessional Paper No. 17a.*
- 35.** Certified copy of a report of the Honorable the Privy Council, approved by His Excellency in Council on the 17th August, 1889, on the subject of the Copyright Act of last session, together with correspondence and other papers referring to the same subject. Presented to the House of Commons, 10th February, 1890, by Sir John Thompson...*Printed for both Distribution and Sessional Papers.*
- 36.** Copies of reports of a committee of the Honorable the Privy Council, with reference to the granting a timber license to Mr. John Adams. Presented to the House of Commons, 17th February, 1890, by Sir John Macdonald.....*Not printed.*
- 36a.** Return to an order of the House of Commons, dated 19th March, 1890, for a list of timber limits granted by the Dominion Government since March 1st, 1885; the names of the parties to whom granted, with date of grant; the area of each limit granted; whether granted to highest bidder at public competition, and the amount of bonus, if any, in each case received. Presented to the House of Commons, 15th April, 1890.—*Mr. Charlton.....Printed for Sessional Papers only.*
- 37.** Return to an address of the House of Commons, to His Excellency the Governor General, dated 27th January, 1890, for copies of all Orders in Council or departmental orders prohibiting American vessels from carrying bonded freight from American ports to Victoria, British Columbia, or any other Canadian port; and copies of all Orders in Council or departmental orders revoking the same, and all correspondence connected therewith. Presented to the House of Commons, 18th February, 1890.—*Hon. Mr. Laurier.....Not printed.*
- 38.** Return to an order of the House of Commons, dated 6th February, 1889, for a return giving the total cost of issuing the budget speech each year since 1867, together with a statement showing the number of copies issued during said period. Presented to the House of Commons, 18th February, 1890.—*Mr. Landerkin.....Not printed.*
- 39.** Return to an order of the House of Commons, dated 23rd January, 1890, for a statement of all the expenses generally incurred to this day for the making of the electoral lists for the Dominion of Canada. Presented to the House of Commons, 25th February, 1890.—*Mr. Casgrain—Not printed.*
- 40.** Return to an order of the House of Commons, dated 12th February, 1890, for copies of all papers, correspondence and agreements between the Government and the proprietors of the extension of the Derby Branch Railway in relation to the said extension, the said extension having been built by the aid of Government subsidy, but never yet operated. Presented to the House of Commons, 26th February, 1890.—*Mr. Mitchell.....Not printed.*
- 41.** Return to an order of the House of Commons, dated 12th February, 1890, for copies of all petitions and correspondence respecting the request for the construction of a siding, on the line of the Intercolonial Railway, at the station of St. Jean Chrysostôme, in the county of Lévis. Presented to the House of Commons, 26th February, 1890.—*Mr. Guay.....Not printed.*

- 41a.** Return to an order of the House of Commons, dated 12th February, 1890, for a statement showing the names of all persons who sold to the Dominion Government since the 1st January, 1886, property located in St. Laurent and Lauzon Wards in the town of Lévis, with a view to widening the roadway of the Intercolonial Railway, and an extension of the station at Lévis; the amount paid to each proprietor; the amounts paid for commissions; the rate of percentage, and the persons to whom such amounts were paid. Presented to the House of Commons, 26th March, 1890.—*Mr. Guay*. . . . . *Not printed.*
- 41b.** Return to an order of the House of Commons, dated 10th March, 1890, for copies of all petitions to the Minister of Railways since 1st January, 1889, from employees of the Intercolonial Railway workshops at Moncton and the Prince Edward Island Railway, asking for an increase of wages; and also for copies of all answers to the same from the Department of Railways or any official thereof. Presented to the House of Commons, 21st April, 1890.—*Mr. Davies*. . . . . *Not printed.*
- 41c.** Return to an order of the House of Commons, dated 10th March, 1890, for copies of all petitions forwarded to the Government by Messrs. Nazaire Ouellet, Geo. Voyer, Alfred Ouellet, F. Côté and others, in relation to damages caused to their properties by the Intercolonial Railway. Presented to the House of Commons, 21st April, 1890.—*Mr. Fiset*. . . . . *Not printed.*
- 41d.** Return to an order of the House of Commons, dated 10th March, 1890, for a return showing the past operation of the Intercolonial Railway employees insurance' scheme, and especially (a) the annual receipts and expenditure, including salaries of officials for each year the scheme has been in operation; (b) the amounts paid each year out of the fund to the employees or their representatives, and whether for death or injury; (c) the surplus (if any) now on hand of such fund. Presented to the House of Commons, 22nd April, 1890.—*Mr. Davies*. . . . . *Not printed.*
- 41e.** Return to an order of the House of Commons, dated 24th February, 1890, for a return of the casualties to trains on the Intercolonial Railway, arising from collision, broken rails or otherwise, for the calendar year 1889, the respective causes and dates, the amount of damage (if any) in each case to property, the amount of compensation paid to owners of property destroyed or damaged, as well as amount of claims for loss or damage to property (if any) unsettled. Presented to the House of Commons, 22nd April, 1890.—*Mr. Weldon (St. John)*. . . . . *Not printed.*
- 41f.** Return to an order of the House of Commons, dated 10th March, 1890, for a return showing (a) the names and number of officials' cars on the Intercolonial Railway and its branches; (b) the original cost, date and place of building of each car, or name of person or company from whom purchased; (c) the cost of repairs to, or expenditure in, each of such cars since acquired; (d) the names, salaries and expenses of each employee on such official cars; (e) the annual expenses of providing the supplies to each such car. Presented to the House of Commons, 9th May, 1890.—*Mr. Davies*—  
*Not printed.*
- 41g.** Return to an address of the Senate to His Excellency the Governor General, dated 1st May, 1890, for a return showing: 1. The rate per ton charged for carrying coal in car loads over the Intercolonial Railway from the mines of Nova Scotia to St. John, Moncton, Newcastle and Campbellton in New Brunswick, and to Rimouski, Rivière du Loup and Quebec, and by the same, with its connections, to Montreal and Toronto. 2. The rate per ton for carrying flour, wheat and other goods of the same class in car loads from Toronto, Montreal and Quebec to Campbellton, Newcastle, Moncton and St. John in New Brunswick, and to Amherst, Truro, Pictou and Halifax in Nova Scotia. 3. The number of freight trains which passed each way between Nova Scotia and Quebec and Ontario, and between New Brunswick and the same provinces, in the year 1889. 4. How many trains carried goods from the west to be shipped at Halifax and St. John, respectively, during 1889, and up to the present date in 1890. Presented to the Senate, 16th May, 1890.—*Hon. Mr. Wark*. . . . . *Not printed.*
- 42.** Return to an order of the House of Commons, dated 23rd January, 1890, for a return showing the amount of money expended by the Dominion in each province since Confederation to the 30th of June, 1889, under the following heads: 1. Subsidies to railways in each province, excepting the Canada Pacific main line and Sault Branch. 2. The several railways built by the Dominion in each Province, including the Intercolonial branches and extensions, but not the main line as originally constructed. 3. The buildings erected or purchased in each province, their location and cost. Presented to the House of Commons, 26th February, 1890.—*Mr. McMullen*—  
*Printed for both Distribution and Sessional Papers.*
- 42a.** Amended return (in part) to a return presented to the House of Commons on the 26th February, 1890, showing the amount of money expended by the Dominion in each province since Confederation to the 30th June, 1889, under the following heads: 1. Subsidies to railways in each province, excepting the Canada Pacific main line and Sault Branch. 2. The several railways built by the Dominion in each province, including the Intercolonial branches and extensions, but not the main

line as originally constructed. 3. The buildings erected or purchased in each province, their location and cost. Presented to the House of Commons, 22nd April, 1890.—*Mr. McMullen*

*Printed for both Distribution and Sessional Papers.*

- 42b.** Return to an order of the House of Commons, dated 21st April, 1890, for a statement of the amount of subsidies voted to the Canada Atlantic Railway Company for the construction of their bridge over the St. Lawrence River, between Coteau and Valleyfield, the amount paid by the Government up to date, and the amount unearned or still to be paid. Presented to the House of Commons, 2nd May, 1890.—*Mr. Bergeron*..... *Not printed.*
- 42c.** Return to an order of the House of Commons, dated 21st April, 1890, for a statement of the amount of subsidies voted by Parliament to the Beauharnois Junction Railway Company, the amount paid by the Government up to date, and the amount still due or unearned. Presented to the House of Commons, 2nd May, 1890.—*Mr. Bergeron*..... *Not printed.*
- 42d.** Papers, correspondence, etc., respecting subsidies to certain railway companies, and towards the construction of certain railways, as follows: Montreal and Ottawa Railway Company (late Vaudreuil and Prescott Railway Company); Waterloo Junction Railway Company; Northern Pacific Junction Railway Company; Ottawa, Morrisburg and New York Railway Company; Erie and Huron Railway Company; Brockville, Westport and Sault Ste. Marie Railway Company; Manitoulin and North Shore Railway Company; Port Arthur, Duluth and Western Railway Company; Lake Erie and Detroit River Railway (formerly Amherstburg, Lake Shore and Blenheim Railway Company); Lindsay, Bobcaygeon and Pontypool Railway Company; Kingston, Smith's Falls and Ottawa Railway Company; Ottawa and Parry Sound Railway Company; Bay of Quinté and Lake Nipissing Railway Company; Cobourg, Northumberland and Pacific Railway Company; St. Stephen and Milltown Railway Company; Woodstock and Centreville Railway Company; St. John River Railway Company, N.B.; Central Railway Company, N.B.; Shelburne and Liverpool to Annapolis Railway Company; Inverness and Richmond Railway Company; International Railway Company; Montreal and Sorel Railway Company; Pontiac Pacific Junction Railway Company; Montreal and Lake Maskinongé Railway Company; Great Eastern Railway Company; Drummond County Railway Company; Oxford Mountain Railway Company; Maskinongé and Nipissing Railway Company; Jacques Cartier Union Railway Company; Quebec Central Railway Company; Quebec and Lake St. John Railway Company; Stewiacke Valley and Lansdowne Railway Company; Temiscouata Railway Company; Tobique Valley Railway Company. Presented to the House of Commons, 14th May, 1890, by Sir John A. Macdonald..... *Not printed.*
- 43.** Return to an order of the House of Commons, dated 12th February, 1890, for a list of Indian reserves within the Province of Manitoba, giving location and area of each one, number of Indians belonging to it at the time of location of such reserve, and number now actually living on same. Presented to the House of Commons, 26th February, 1890.—*Mr. LaRivière*—  
*Printed for both Distribution and Sessional Papers.*
- 43a.** Return to an order of the House of Commons, dated 20th January, 1890, for a return giving the names of all persons who were tried before a magistrate for selling intoxicating liquors to Indians in the county of Grey or Bruce, in the year 1888-89; together with all papers, documents and letters on the subject; also the name of the party who laid the information, the name of the magistrate before whom it was tried, the name of the constable employed, and the name of the lawyer retained in each case, together with the decisions of the magistrate, stating the fines imposed, if any; also if any appeals were made from the decisions of the magistrate, stating before what judge the appeals were tried and what was the result: giving the cost of each trial before the magistrate, and of each appeal before the judge, together with the name, occupation and post office address of every person who received money for any service whatever, either at the trial at the magistrate's court or at the appeal before the judge; the total cost of all the trials, the total fines imposed and collected. If costs were refused at any trial, giving the reason for such refusal; also showing whether any of the Indians who received whiskey were electors of Bruce under the Electoral Franchise Act of Canada. Presented to the House of Commons, 10th March, 1890.—*Mr. Landerkin*..... *Not printed.*
- 43b.** Return to an order of the House of Commons, dated 10th March, 1890, for a statement showing: 1. All moneys in the hands of the Superintendent General of Indian Affairs, belonging to the Indians of the Caughnawaga Reserve. 2. All the several sources from which the said moneys were derived. Presented to the House of Commons, 26th March, 1890.—*Mr. Doyon*..... *Not printed.*

- 43c.** Return to an order of the House of Commons, dated 10th March, 1890, for copies of all correspondence between the Indian Department and the agent or chiefs of the Caughnawaga Reserve, in relation to any indemnity obtained by the Indians of the reserve, on the ground that the extent of their reserve has been considerably diminished by encroachments. Presented to the House of Commons, 9th May, 1890.—*Mr. Doyon*.....*Not printed.*
- 44.** Statement of the affairs of the British Canadian Loan and Investment Company, on 31st December, 1889. Presented to the House of Commons, 16th May, 1890, by Hon. Mr. Speaker...*Not printed.*
- 45.** Return to an address of the House of Commons to His Excellency the Governor General, dated 1st April, 1889, for a return : 1. Giving the names and places of residence of the commissioners appointed in 1883 for the purpose of examining and reporting upon the fitness and eligibility of persons appearing before them for examination and qualification as inspectors of the hulls of freight and passenger steamers plying in Canadian waters. 2. Copies of the circular sent out inviting competitors to meet at Ottawa, and the date or dates so mentioned from time to time. 3. The names and places of residence of all persons who were so examined at each and every meeting of the said commissioners up to date. 4. Copies of the recommendation or recommendations of any of the said commissioners, or any one of them, respecting the said examination or the qualifications, or otherwise, of any or all who underwent such examination at the first or any subsequent meeting of the said commissioners, or either of them. 5. The name and place of residence of each and every inspector of freight and passenger steamer hulls appointed by the Government from 1882 to date ; indicating who were appointed after undergoing and passing the necessary examination, as well as giving the name and place of residence of each and every inspector of such hulls who was appointed without having successfully passed the said examination, together with the name and place of residence of any inspector so appointed, since 1882 to date, who had been dismissed or had resigned within the time specified, and the cause assigned for such dismissal or resignation. 6. The name and place of residence of any person appointed to fill any vacancy or addition as inspector of said hulls. 7. Copies of all correspondence between the Minister of Marine and any person respecting any of the questions enumerated herein. Presented to the House of Commons, 3rd March, 1890.—*Mr. Wilson (Elgin)*.....*Not printed.*
- 46.** Return to an address of the House of Commons to His Excellency the Governor General dated 20th February, 1890, for a copy of the report of Mr. A. F. Wood upon the investigation which he has made into affairs connected with the Welland Canal. Presented to the House of Commons, 6th March, 1890.—*Mr. Edgar*.....*Not printed.*
- 46a.** Return to an order of the House of Commons, dated 29th January, 1890, for a return showing the date of the creation of the Trent Valley Canal Commission, the time and place of the first sitting, the actual number of days it has actually been occupied in the work appertaining to the said Commission, and the number of days and of sittings held in taking and receiving evidence, and the places whereat thus far sittings of the commission have been held. Presented to the House of Commons, 5th March, 1890.—*Mr. Barron*.....*Not printed.*
- 46b.** Return to an order of the House of Commons, dated 3rd March, 1890, for a statement showing, for each year since 1878 : 1. The number of vessels which have passed through the Chambly Canal, and their tonnage. 2. The amount of, and the description of freight carried by these vessels. 3. The amount of tolls collected in the said several years on the said canal. Presented to the House of Commons, 17th March, 1890.—*Mr. Préfontaine*.....*Not printed.*
- 46c.** Supplementary Report of A. F. Wood, Esq., of the Welland Canal Investigation with suggestions as to changes in the present system of management. Presented to the Senate, 1st May, 1890, by Hon. Mr. Abbott.....*Not printed.*
- 47.** Return to an order of the House of Commons, dated 24th February, 1890, for a return of the number of cases entered in the Vice-Admiralty Court of Quebec, during the years 1885, 1886, 1887, 1888 and 1889 ; the number of cases entered during the same years in the Vice-Admiralty Court of Nova Scotia ; and the number of cases entered during the same year in the Vice-Admiralty Court of New Brunswick. Presented to the House of Commons, 5th March, 1890.—*Mr. Weldon (St. John)*.....*Not printed.*
- 48.** Return to an order of the House of Commons, dated 23rd January, 1890, for a statement in detail showing the expenditure made in connection with the Marine and Emigrant Hospital at Quebec, since the 30th June, 1886, the said statement giving : 1. The sum voted each year by the Dominion Parliament. 2. The amount expended. 3. The number of sailors and emigrants taken in each year, and the total number of days that each one of these passed in the hospital. 4. The number of persons not being sailors or emigrants, taken into the said hospital, and the number of days that each one of this class passed there. 5. The total cost day by day of each patient. 6. The amount received by the Government for the patients who are neither emigrants nor sailors. 7. The amount

received from the Sick Mariners' Fund under the Act 49 Vic., chap. 76, section 16. Presented to the House of Commons, 5th March, 1890.—*Mr. Langelier (Quebec Centre)*—

*Printed for both Distribution and Sessional Papers.*

- 48a.** Return to an address of the House of Commons to His Excellency the Governor General, dated 22nd January, 1890, for copies of all Orders in Council, correspondence and documents respecting the establishment of the Marine Hospital at Quebec and respecting the closing of the same. Presented to the House of Commons, 17th March, 1890.—*Mr. Langelier (Quebec Centre)*..... *Not printed.*
- 49.** Return to an order of the House of Commons, dated 29th January, 1890, for a return showing whether or not the island known as Sultana Island, in the Lake of the Woods, has been sold, and if sold, showing by what right or title the Government of Canada claimed to have the power to sell the same; showing, also, all correspondence had between the Government of Canada and the purchaser or purchasers of said island, or the solicitors or other persons acting on behalf of such purchaser or purchasers (if any); showing, also, the area of land contained in said island, and the value and extent of the pine timber thereupon, and the price or amount for which the said island was sold, and the names and addresses of the purchaser or purchasers thereof. Also any map showing locality of island. Presented to the House of Commons, 5th March, 1890.—*Mr. Barron*—  
*Not printed.*
- 49a.** Supplementary return to an order of the House of Commons, dated 29th January, 1890, for a return showing whether or not the island known as Sultana Island, in the Lake of the Woods, has been sold, and if so, showing by what right or title the Government of Canada claimed to have the power to sell the same; showing, also, all correspondence had between the Government of Canada and the purchaser or purchasers of said island, or the solicitors or other persons acting on behalf of such purchaser or purchasers (if any); showing, also, the area of land contained in said island, and the value and extent of the pine timber thereupon, and the price or amount for which the said island was sold, and the names and addresses of the purchaser or purchasers thereof. Also any map showing locality of island. Presented to the House of Commons, 2nd April, 1890.—*Mr. Barron*..... *Not printed.*
- 50.** Return to an order of the House of Commons, dated 17th April, 1889, for a return showing the number of permanent clerks employed by the Department of the Interior, including inside and outside service. And also the number of extra clerks at present in the employ of the said department in the same service. Presented to the House of Commons, 5th March, 1890.—*Mr. Weldon (St. John)*—  
*Not printed.*
- 51.** Official correspondence in the matter of Private C. J. Hurrell, applying for further compensation as a wounded volunteer. Presented to the House of Commons, 7th March, 1890, by Sir Apolphe Caron..... *Not printed.*
- 51a.** Official correspondence in the matter of Valiquette's pension. Presented to the House of Commons, 7th March, 1890, by Sir Adolphe Caron..... *Not printed.*
- 51b.** Return to an order of the House of Commons, dated 26th March, 1890, for a statement showing:  
1. The date when Private C. T. Hurrell was notified by the Government of the passing of the passing of the Order in Council of the 13th November, 1888, granting him a pension. 2. The amounts paid him by way of gratuity or pension, and the dates of such payments. Presented to the House of Commons, 18th April, 1890.—*Mr. Mulock*..... *Not printed.*
- 51c.** Copy of a declaration made by Antoine Valiquette, father of the late Primat Valiquette, sergeant in the 65th Battalion. Presented to the House of Commons, 18th April, 1890, by Sir A. P. Caron.  
*Not printed.*
- 52.** Return to an order of the House of Commons, dated 30th January, 1890, for copies of all letters to the Government asking that engineers be sent to examine Kettle Creek, between St. Thomas and Port Stanley, with a view to ascertaining the feasibility of building a canal; and all reports, maps and other documents sent in by such engineers. Presented to the House of Commons, 10th March, 1890.—*Mr. Wilson (Elgin)*..... *Not printed.*
- 53.** Return to an order of the House of Commons, dated 12th February, 1890, for copies of all correspondence between the Government, or any of its departments, and the corporation known as the "Président et syndics de la commune de la seigneurie d'Yamaska," respecting damages occasioned to their lands by the dam erected in the Yamaska River. Presented to the House of Commons, 10th March, 1890.—*Hon. Mr. Laurier*..... *Not printed.*
- 53a.** Return to an order of the House of Commons, dated 24th February, 1890, for copies of all claims made by Elphège Cardin, Jean Cardin, George Tonnancourt and Bruno St. Germain, to be compensated for damages occasioned to their lands by the dam erected in the Yamaska River; of all correspondence arising out of such claims; together with a statement of all sums allowed to each of them in settlement of their claims. Presented to the House of Commons, 20th March, 1890.—*Hon. Mr. Laurier*..... *Not printed.*



- 53b. Return to an order of the House of Commons, dated 12th February, 1890, for copies of the late reports made by the Engineer of the Public Works Department respecting works to be carried out at Rivière du Sud, in the county of Montmagny. Presented to the House of Commons, 17th March, 1890.—*Mr. Choquette*..... *Not printed.*
54. Return to an order of the House of Commons, dated 30th January, 1890, for a return of all correspondence, petitions, reports or other papers respecting the sale, ownership or condition of the Dundas and Waterloo Macadamized Road, since the close of the session of 1889. Presented to the House of Commons, 10th March, 1890.—*Mr. Bain (Wentworth)*..... *Not printed.*
- 54a. Return to an order of the House of Commons, dated 29th January, 1890, for copies of all petitions, reports of engineers, and all correspondence in reference to the dredging of the bar at the mouth of the river Thames, in the county of Kent, Ontario. Presented to the House of Commons, 10th March, 1890.—*Mr. Campbell*..... *Not printed.*
55. Return to an order of the House of Commons, dated 22nd January, 1890, for copies of all correspondence and documents respecting the appointment of Mr. Joseph Garneau as Superintendent of Government works at Quebec; and respecting his removal and the substitution of a person named L. P. Lépine. Presented to the House of Commons, 10th March, 1890.—*Mr. Langelier (Quebec Centre)*..... *Not printed.*
56. Return to an order of the House of Commons, dated 5th February, 1890, for a return of a copy of the contract and specification for the erection of the Post Office and Custom House building at Annapolis, Nova Scotia; the several tenders and amounts thereof; also any order or orders altering the quality and nature of the stone used in the construction. Presented to the House of Commons, 10th March, 1890.—*Mr. Weldon (St. John)*..... *Not printed.*
- 56a. Return to an order of the House of Commons, dated 4th March, 1889, for copies of all petitions and resolutions forwarded to the Government by the citizens or Corporation of the town of Lévis, in relation to the building of a post office in the said town. Presented to the House of Commons, 10th March, 1890.—*Mr. Guay*..... *Not printed.*
- 56b. Return to an order of the House of Commons, dated 12th February, 1890, for copies of all petitions, letters, etc., to the Department at Ottawa, praying for a post office at Palmer Road, Prince Edward Island; also all correspondence to and from the Post Office Department at Ottawa and the Post Office Inspector at Charlottetown, Prince Edward Island, on the same subject. Presented to the House of Commons, 21st April, 1890.—*Mr. Perry*..... *Not printed.*
- 56c. Return to an order of the House of Commons, dated 12th February, 1890, for copies of two enquiries made by Messrs. Bourgeois, King and Bolduc, respecting the post office at Pierreville, P.Q.—*Mr. Choquette*..... *Not printed.*
57. Return to an order of the House of Commons, dated 11th March, 1889, for copies of all correspondence, reports, etc., respecting the wharf at St. Roch des Aulnets, in the county of L'Islet, between the Department of Public Works and the late Charles Frs. Roy, surveyor, and the residents of the said municipality interested therein. Presented to the House of Commons, 10th March, 1890.—*Mr. Casgrain*..... *Not printed.*
- 57a. Return to an order of the House of Commons, dated 27th January, 1890, for copies of the accounts connected with the building of a wharf at Kamouraska, in the province of Quebec, made up in the course of the year 1889. Presented to the House of Commons, 10th March, 1890.—*Mr. Dessaint*—*Not printed.*
58. Return to an order of the House of Commons, dated 27th January, 1890, for a statement, in detail, showing the expenditure made in connection with repairs to Tignish Breakwater, Prince Edward Island, during 1889; the date of commencement of work, and when completed; the name of party in charge of work. Presented to the House of Commons, 10th March, 1890.—*Mr. Perry*—*Not printed.*
- 58a. Return to an order of the House of Commons, dated 26th February, 1890, for a statement showing the number of Government wharves, piers and breakwaters repaired in Prince Edward Island during the year 1889, the amount expended on each of said wharves, piers and breakwaters. Presented to the House of Commons, 20th March, 1890.—*Mr. Perry*..... *Not printed.*
59. Return to an order of the House of Commons, dated 24th February, 1890, for copies of the reports made by the chief engineer relating to the survey of Cove Head Harbor, in Prince Edward Island, four or five years ago. Presented to the House of Commons, 10th March, 1890.—*Mr. Davies*—*Not printed.*
- 59a. Return to an order of the House of Commons, dated 20th January, 1890, for a copy of Government engineer's report of survey of Harbors of Pinette and Wood's Island, and also copy of report of survey of New London Harbor and Breakwater, in the province of Prince Edward Island. Presented to the House of Commons, 10th March, 1890.—*Mr. Welsh*..... *Not printed.*

- 59b.** Return to an order of the House of Commons, dated 24th February, 1890, for copies of any reports made by the chief engineer relating to survey of Tracadie Harbor, Prince Edward Island, some years ago. Presented to the House of Commons, 20th March, 1890.—*Mr. Davies*.....*Not printed.*
- 59c.** Return to an order of the House of Commons, dated 10th March, 1890, for a return showing the date of commencing the work of blasting the rock in Cascumpec Harbor, in Prince Edward Island, in the summer of 1889, the date at which the work stopped, the names of workmen employed, the amount of wages paid to each diver and to each laborer; also the whole amount expended in blasting said rock up to December, 1889. Presented to the House of Commons, 1st April, 1890.—*Mr. Perry*.....*Not printed.*
- 59d.** Return to an order of the House of Commons, dated 10th March, 1890, for a return showing the number of tenders made or put in for the public work at the eastern gap of the Toronto Harbor works; the name or names of each person or company tendering for the work and the amount of each tender and the terms thereof, with a statement of the approximate quantities upon which each tender was calculated; and of all letters and correspondence, statements, documents and papers pertaining to the letting of the contract and to any and all of the tenders. Presented to the House of Commons, 1st April, 1890.—*Mr. Barron*.....*Not printed.*
- 59e.** Return to an order of the House of Commons, dated 19th March, 1890, for a return of all correspondence, petitions, memorials, reports of the chief engineer of the Department relative to the necessity and expediency of dredging and otherwise improving the harbor at Picton, Bay of Quinté, since 1st January, 1883; and also containing all correspondence, petitions, memorials and reports concerning the desirability or expediency of construction of public buildings at the said town of Picton for the accommodation of post office, customs and inland revenue offices in that town, since 1st January, 1886. Presented to the House of Commons, 2nd April, 1890.—*Mr. Platt*—  
*Not printed.*
- 59f.** Return to an order of the House of Commons, dated 17th March, 1890, for copies of all reports of the chief engineer on the pier at Hall's Harbor, Nova Scotia, since the year 1882; and for copies of all correspondence relating to said pier. Presented to the House of Commons, 2nd April, 1890.—*Mr. Borden*.....*Not printed.*
- 59g.** Statements and correspondence in reference to the Harbor Works at Quebec, Graving Dock at Esquimalt, etc. Presented to the House of Commons, 16th May, 1890, by Sir Hector Langevin—  
*Printed for both Distribution and Sessional Papers.*
- 60.** Return to an order of the House of Commons, dated 30th January, 1890, for a statement showing the amount of dredging done during the season of 1889 in Prince Edward Island by the dredge "Prince Edward;" the names of harbors and other places dredged during said season, and the amount of work done in each harbor. Presented to the House of Commons, 10th March, 1890.—*Mr. Perry*.....*Not printed.*
- 61.** Return to an order of the House of Commons, dated 24th February, 1890, for copies of all correspondence which has passed between the Auditor General and the Minister of the Interior, or any other person, in reference to the allowance for travelling expenses of William McGirr, private secretary to the Superintendent General of Indian Affairs. Presented to the House of Commons, 10th March, 1890.—*Mr. Lister*.....*Not printed.*
- 62.** Return to an address of the House of Commons to His Excellency the Governor General, dated 29th January, 1890, for a copy of the quarantine regulations of Grosse Isle, together with all Orders in Council and instructions given to the medical officers at said station. Presented to the House of Commons, 10th March, 1890.—*Mr. Landerkin*.....*Not printed.*
- 63.** Return to an order of the House of Commons, dated 12th February, 1890, for copies of correspondence in connection with a claim, made by the district of St. Peter's, in the county of Richmond, for medical attendance and board of Kenneth Chisholm, a sick mariner, belonging to the schooner "Jeanie." Presented to the House of Commons, 10th March, 1890.—*Mr. Flynn*—  
*Not printed.*
- 64.** Return to an order of the House of Commons, dated 24th January, 1890, for a return showing: 1. The total number of Chinese immigrants who have arrived in the Dominion of Canada from the 31st March, 1887, to the 31st December, 1889, specifying the ports at which such immigrants have arrived. 2. The amount of fees or duties collected from Chinese immigrants during the same period. 3. The number of certificates of residence that have been issued to Chinese as provided for under section 13 of the Act to restrict and regulate Chinese immigration into Canada, since the passage of the Act. 4. The number of Chinese who have been detected in attempting to land in Canada upon fraudulent certificates and who were prevented by the courts from doing so. 5. Copies of all correspondence having reference to the removal from office of Mr. Vroman *alias* Mr. Gardner, and also all correspondence having reference to the appointment of a Chinaman to the

position of interpreter at the port of Vancouver, in the place of the said Mr. Gardner. 6. The number of Chinese who have passed through Canada in bond for passage from Vancouver by steamer to China, and the regulations that have been prescribed for placing them securely on board said steamers to prevent their disembarkation into Canada. 7. The total number of Chinese other than those in bond who have left Canada during the first mentioned period, and the number of return certificates that have been issued. Presented to the House of Commons, 10th March, 1890.—*Mr. Gordon*.....*Printed for Sessional Papers only.*

65. Return to an address of the Senate to His Excellency the Governor General, dated 21st January, 1890, for copies of all reports and other communications in reference to the deposit of sawdust, slabs, or other offensive material, in the Ottawa and other rivers of the Dominion. Presented to the Senate, 10th March, 1890.—*Hon. Mr. Clemow*—

*Presented for both Distribution and Sessional Papers.*

- 65a. Return to an order of the House of Commons, dated 24th February, 1890, for a copy of the report of Sandford Fleming, C.E., of the examination made by him as to sawdust, &c., put in the Ottawa by the saw mills at the Chaudière and other mills on the Ottawa River. Presented to the House of Commons, 20th March, 1890.—*Mr. Landerkin*.....*Not printed.*

66. Return to an address of the Senate to His Excellency the Governor General, dated 22nd January, 1890, for a detailed statement showing the settlement effected with the lessees of hydraulic lots at the Chaudière, city of Ottawa; as likewise copies of new leases entered into with the several lessees of the said hydraulic lots. Presented to the Senate, 10th March, 1890.—*Hon. Mr. Clemow*.  
*Not printed.*

- 66a. Return to an order of the House of Commons, dated 24th February, 1890, for return showing the names of all parties in arrears for hydraulic and other rents up to the 1st instant, and the amounts respectively due by such parties. Presented to the House of Commons, 22nd April, 1890.—*Mr. Somerville*.....*Not printed.*

67. Return to an address of the House of Commons to His Excellency the Governor General, dated 29th January, 1890, for copies of all petitions, correspondence and documents of every nature respecting the Great Eastern Railway, or any other line of railway which it is proposed to lay between Lévis and Montreal, following the course of the river St. Lawrence. Presented to the House of Commons, 12th March, 1890.—*Mr. Rinfret*.....*Not printed.*

68. Report in relation to the appointment of non-commissioned officers in the Royal Military College. Presented to the House of Commons, 13th March, 1890, by Sir A. P. Caron.....*Not printed.*

69. Certified copy of a report of a Committee of the Honorable the Privy Council, approved by His Excellency the Governor General in Council on the 11th January, 1885, in relation to matters between the Government and the city of Ottawa. Presented to the House of Commons, 17th March, 1890, by Sir Hector Langevin.....*Not printed.*

70. Return to an address of the House of Commons to His Excellency the Governor General, dated 27th January, 1890, for copies of the reports or opinions of the Law Officers of the Crown relating to the Act passed by the Legislature of the province of Quebec intituled: "An Act for the settlement of the Jesuits' Estates," and also copies of the case or cases or other documents or reports submitted to the said Law Officers, or to Her Majesty's Secretary of State for the Colonies, in relation to the said Act, and upon which the said opinions were obtained, and also all the despatches and correspondence in reference thereto. Presented to the House of Commons, 17th March, 1890.—*Mr. O'Brien*.....*Printed for both Distribution and Sessional Papers.*

71. Return to an order of the House of Commons, dated 24th February, 1890, for a statement showing, in detail, the population by origin, according to the census of 1885, of that part of the provisional district of Saskatchewan lying to the south of the line between townships 47 and 48, and bounded on the west by the line between ranges 11 and 12, west of the 3rd initial meridian, and on the east by the 3rd initial meridian, in the Dominion Lands system of survey, now the electoral district of Batoche. Also of that part of the same provisional district lying to the east of the 3rd initial meridian in the Dominion Land system of survey, and bounded on the north by the southern boundary of the electoral district of Prince Albert, now the electoral district of Kinistino. Presented to the House of Commons, 17th March, 1890.—*Mr. Laurier*.....*Not printed.*

72. Return to an order of the House of Commons, dated 12th February, 1890, for a return showing the annual losses of ships since 1868 in the Gulf of St. Lawrence and on the Atlantic coast and Bay of Fundy, owing to tides, currents and fogs, with the name and tonnage of each vessel, and such particulars in each case as to the causes and extent of damage, as may be in the possession of the Government. Presented to the House of Commons, 17th March, 1890.—*Mr. Curran*—

*Printed for Sessional Papers only.*

- 73.** Return to an order of the House of Commons, dated 24th February, 1890, for a return showing the number of Reports of the Geological Survey published respectively for each year of the last ten years, the number sold each year, the number distributed gratuitously, and the number still on hand. Presented to the House of Commons, 17th March, 1890.—*Mr. Ferguson (Welland)*—  
*Printed for Sessional Papers only.*
- 74.** Correspondence of the Governments of Ontario and Quebec in reference to the ownership of the beds of harbors, rivers, etc. Presented to the House of Commons, 19th March, 1890, by Sir John Thompson.....*Printed for both Distribution and Sessional Papers.*
- 75.** Statement, in detail, of Receipts and Payments of Canada, for the eight months ending 28th February, for the years 1889 and 1890 respectively. Presented to the House of Commons, 20th March, 1890, by Hon. G. E. Foster.....*Not printed.*
- 76.** Return to an address of the House of Commons, to His Excellency the Governor General, dated 29th January, 1890, for: 1. Copies of all petitions addressed to his Excellency the Governor General by settlers in the districts of Cranberry, Cedar, Wellington, Nanoose and Nanaimo, British Columbia, asking the privilege of obtaining the lands on which they had squatted on the Island Railway reserve on ordinary terms allowed to settlers, viz., that their grant should include surface and minerals. 2. For copies of all Orders in Council passed to authorise a commission to enquire into the claims of said settlers. Presented to the House of Commons, 26th March, 1890.—*Hon. Mr. Laurier*.....*Not printed.*
- 77.** Return to an order of the House of Commons, dated 19th March, 1890, showing salary and remuneration paid to Mr. Arthur Prieur, employee of the House, as translator or otherwise, and the total amount received by him since his employment in any capacity. Presented to the House of Commons, 31st March, 1890, by Hon. Mr. Speaker.....*Not printed.*
- 78.** Return to an order of the House of Commons, dated 19th March, 1890, for a return showing: 1. The actual cost of first construction of the Montreal Court House, 1851-57. 2. The amount spent for repairs since each year down to Confederation. Presented to the House of Commons, 1st April, 1890.—*Mr. Curran*.....*Not printed.*
- 79.** Return to an order of the House of Commons, dated 12th February, 1890, for a return showing: 1. The total amount of money expended in dredging McGregor's Creek, in the town of Chatham, Ontario. 2. The amount expended for piling and planking the same. The name of each contractor, and amount of their several contracts. 3. The amount of money paid property owners for damage done to their property in consequence of such dredging, with the name and amount paid each property owner. 4. The name and amount of all claimants whose claims have been rejected, or which are still under the consideration of the Government. Presented to the House of Commons, 1st April, 1890.—*Mr. Campbell*.....*Not printed.*
- 80.** Return to an order of the House of Commons, dated 24th February, 1890, for the report and plans of the Chief Engineer of the Department of Public Works employed to make a survey and examination, with a view to the construction of an inter-provincial bridge across the Ottawa River, between the village of La Passe, in the province of Ontario, and the village of Fort Coulonge, in the province of Quebec. Presented to the House of Commons, 1st April, 1890.—*Mr. Bryson*—  
*Not printed.*
- 81.** Return to an order of the House of Commons, dated 24th February, 1890, for a return showing the number of self-binders, reapers and mowers exported from the Dominion during the past three years; giving the names of the exporters, the countries to which exported, and the amount of drawback allowed on each of the articles so exported. Presented to the House of Commons, 3rd April, 1890.—*Mr. Paterson (Brant)*.....*Not printed.*
- 82.** Return to an address of the House of Commons to His Excellency the Governor General, dated 22nd January, 1890, for copies of all correspondence between the officers of the Temperance Colonization Company, and the officers of the Saskatchewan Land and Homestead Company, and the Department of the Interior, or any member of the Government; and all correspondence between Rev. Alexander Sutherland and John T. Moore and the Department of the Interior, or any member of the Government, in relation to the location of lands and claims for placing immigrants on lands, and compensation for assisting immigration to the said lands, together with all Orders in Council relating to such claims. Presented to the House of Commons, 14th April, 1890.—*Mr. Somerville*—  
*Not printed.*
- 82a.** Supplementary return to an address of the House of Commons, to His Excellency the Governor General, dated 22nd January, 1890, for copies of all correspondence between the officers of the Temperance Colonization Company and the officers of the Saskatchewan Land and Homestead Company and the Department of the Interior, or any member of the Government; and all correspondence between the Rev. Alexander Sutherland and John T. Moore and the Department of the

- Interior, or any member of the Government, in relation to the location of lands and claims for placing immigrants on lands, and compensation for assisting immigration to the said lands, together with all Orders in Council relating to such claims. Presented to the House of Commons, 18th April, 1890.—*Mr. Somerville* ..... *Not printed.*
- 82b. Return to an order of the House of Commons, dated 17th March, 1890, for a return of all correspondence, memorials and agreements between the Government and the Temperance Colonization Company, together with correspondence of settlers, employees and members of the Company, relative to the operations of the said company. Presented to the House of Commons, 16th May, 1890.—*Mr. Wallace*..... *Not printed.*
83. Return to an order of the House of Commons, dated 10th March, 1890, for copies of all petitions and correspondence respecting the placing of a floating light opposite Yamachiche, in Lake St. Peter, River St. Lawrence. Presented to the House of Commons, 16th April, 1890.—*Mr. Rinfret*.  
*Not printed.*
- 83a. Return to an order of the House of Commons, dated 19th March, 1890, for copies of all petitions, correspondence and documents whatsoever respecting the placing of a floating light on the St. Lawrence opposite the church of Ste. Croix, in the county of Lotbinière, in place of the buoy now located there. Presented to the House of Commons, 25th April, 1890.—*Mr. Rinfret* ..... *Not printed.*
84. Report of Collingwood Schreiber, Esq., Chief Engineer and General Manager of Government Railways, on the completion of the location survey of the proposed line of railway between Harvey Station on the New Brunswick Railway, and a point on the Intercolonial Railway near Moncton *via* Fredericton, known as the "Harvey-Moncton Section of the Short Line Railway." Presented to the House of Commons, 24th April, 1890, by Sir John Macdonald ..... *Not printed.*
85. Return to an order of the House of Commons, dated 10th March, 1890, for copies of forms of advertisement and of tender, of tenders received of the contract entered into in connection with a steam service between any ports in the Maritime Provinces and any West India ports; also all correspondence connected therewith between any of the public departments and any persons interested in the establishment of the said service. Presented to the House of Commons, 29th April, 1890.—*Mr. Trow*..... *Not printed.*
86. Return to an order of the House of Commons, dated 24th January, 1890, for a return of all papers and correspondence between the Ontario Manufacturers' Association and the Dominion Government, during the years 1883, 1884 and 1885, on the subject of proposed legislation relating to factories. Presented to the House of Commons, 1st May, 1890.—*Mr. Edgar*..... *Not printed.*
87. Return to an order of the House of Commons, dated 30th January, 1890, for copy of report made and evidence taken by the court of enquiry ordered by the Department of Marine to investigate the loss of the steamer "Quinté," which was burned on Bay of Quinté in the autumn of 1889. Presented to the House of Commons, 2nd May, 1890.—*Mr. Platt*..... *Printed for Sessional Papers only.*
- 87a. Return to an order of the House of Commons, dated 5th March, 1890, for a return of all claims made by the Government since Confederation against individuals, companies or corporations for damages done to Government property by steamers, vessels or other craft; giving the names of vessels, etc., their owners, dates and items of each claim, distinguishing those paid and unpaid. Presented to the House of Commons, 2nd May, 1890.—*Mr. Cook*..... *Not printed.*
- 87b. Report of Lieut. Gordon, R.N., into the conduct of the master and mate of the steamship "Baltic," in connection with the outrage perpetrated on one Charles Hambly, a deck-hand of the said vessel, on the 26th August, 1889. Presented to the House of Commons, 14th May, 1890, by Hon. Mr. Colby..... *Printed for Sessional Papers only.*
- 87a. Return (*in part*) to an order of the House of Commons, dated 5th March, 1890, for a return of all claims made by the Government since Confederation against individuals, companies or corporations for damages done to Government property by steamers, vessels or other craft; giving the names of vessels, etc., their owners, dates and items of each claim, distinguishing those paid and unpaid. Presented to the House of Commons, 16th May, 1890.—*Mr. Cook*..... *Not printed.*
88. Return to an order of the House of Commons, dated 14th April, 1890, for copies of all agreements made between the Government, or the Minister of Railways, and the Western Union Telegraph Company, respecting the construction and operation of a telegraph line along the Cape Breton Railway. Presented to the House of Commons, 2nd May, 1890.—*Mr. Macdonald (Victoria)*—  
*Not printed.*
89. Return to an order of the House of Commons, dated 14th April, 1890, for copies of the petitions, letters, and the plans and engineers' reports respecting the projected dam at Hungry Bay, in the county of Beauharnois. Presented to the House of Commons, 2nd May, 1890.—*Mr. Bergeron*—  
*Not printed.*
90. Return to an order of the House of Commons, dated 21st April, 1890, for copies of all petitions and other documents relating to the building of the proposed branch railway to Matane. Presented to the House of Commons, 2nd May, 1890.—*Mr. Fiset*..... *Not printed.*

- 91.** Liquor License Act, 1883, memorandum of claims for fines, costs, &c., imposed on holders of Dominion Licenses for violations of the Provincial License Act. Presented to the House of Commons, 5th May, 1890, by Hon. J. Costigan.....*Printed for Sessional Papers only.*
- 91a.** Return to an order of the House of Commons, dated 10th March, 1890: 1. For a return, in detail, of all expenses attending the passage and enforcement of the Liquor License Act of 1883 up to date. 2. The amount of all law costs *re* its constitutionality. 3. The names of all the legal firm or firms employed by the Government, and the amount paid said firm or firms. Presented to the House of Commons, 16th May, 1890.—*Mr. Trow*.....*Not printed.*
- 92.** Return to an order of the House of Commons, dated 14th April, 1890, for copies of all correspondence between the Department of Militia and Defence and the officers of the staff of Military District No. 1 regarding the pay and allowances of said officers. Presented to the House of Commons, 6th May, 1890.—*Mr. Scriver*.....*Not printed.*
- 92a.** Return to an address of the House of Commons to His Excellency the Governor General, dated 21st April, 1890, for copies of all Orders in Council making appointments, promotions and changes in the Department of Militia and Defence, for the year ending 31st December, 1889. Presented to the House of Commons, 6th May, 1890.—*Mr. Lister*.....*Not printed.*
- 93.** Return to an order of the House of Commons, dated 21st April, 1890, for a return of the quantity and value of eggs imported into and exported from the provinces of Ontario and Quebec since 1st January last; also the countries they have been imported from and exported to. Presented to the House of Commons, 6th May, 1890.—*Mr. Guillet*.....*Printed for Sessional Papers only.*
- 94.** Correspondence respecting the surrender of the Anderson contract for the Atlantic Steamship Service. Presented to the House of Commons, 13th May, 1890, by Hon. G. E. Foster—  
*Printed for Sessional Papers only.*
- 95.** Return to an order of the House of Commons, dated 24th January, 1890, for a return showing the total amount of expenditure to date on the Government Printing Bureau building, the total expenditure to date on type, presses and all other printing and binding machinery and material placed in the bureau; also the total amount paid in salaries and wages to officers and employees in the bureau from the 1st July, 1889, to 1st January, 1890. Presented to the House of Commons, 14th May, 1890.—*Mr. Innes*.....*Printed for Sessional Papers only.*
- 96.** Return (in part) to an order of the House of Commons, dated 23rd January, 1890, for a return showing the amount of money expended by the Dominion in each province since Confederation to the 30th of June, 1889, under the following heads: 1. Subsidies to railways in each province, excepting the Canada Pacific main line and Sault branch; 2. The several railways built by the Dominion in each Province, including the Intercolonial branches and extensions, but not the main line as originally constructed; 3. The buildings erected or purchased in each province, their location and cost. Presented to the House of Commons, 7th May, 1890.—*Mr. McMullen*—  
*Printed for both Distribution and Sessional Papers.*
- 97.** Return to an order of the House of Commons, dated 31st March, 1890, for a statement showing the number of barrels of Canadian flour brought by sea or directly, or through the United States of America, into the several provinces of Nova Scotia, New Brunswick and Prince Edward Island, during the year 1889. Presented to the House of Commons, 16th May, 1890.—*Mr. Weldon (St. John)*.....*Not printed.*
- 98.** Return to an order of the House of Commons, dated 12th February, 1890, for a return showing the names of the six Pagans returned for the parish of Ste. Elizabeth, in the county of Joliette and province of Quebec, in the census returns of 1881, as appears from the original schedule of the enumerator for that parish. Presented to the House of Commons, 16th May, 1890.—*Mr. Charlton*.  
*Not printed.*
- 99.** Return to an order of the House of Commons, dated 10th March, 1890, for copies of all papers connected with the seizure of the tug "Rooth" at Amherstburg, in July or August last, having a raft in tow, and bound from French River to Fort Erie. Presented to the House of Commons, 16th May, 1890.—*Mr. Charlton*.....*Not printed.*
- 100.** General statements and returns of baptisms, marriages and burials in the districts of Chicoutimi, Gaspé, Joliette and Montmagny, for the year 1889. Presented to the House of Commons, 16th May, 1890, by Hon. Mr. Speaker.....*Not printed.*
- 101.** Return to an address of the Senate to His Excellency the Governor General, dated 22nd April, 1890, for copies of all correspondence between the Minister or Deputy Minister of Justice, Inspector Moylan, or any official in connection with the Department of Justice, and the Warden, Deputy Warden, or any other official of the British Columbia Penitentiary, relating to the dismissal of John Wiggins, lately a guard in the aforesaid penitentiary. Presented to the Senate, 16th May, 1890.—*Hon. Mr. McInnes (New Westminster)*.....*Not printed.*

# ANNUAL REPORT

OF THE

# DEPARTMENT OF THE INTERIOR

FOR THE YEAR

1889.

---

*PRINTED BY ORDER OF PARLIAMENT.*

---



OTTAWA:

PRINTED BY BROWN CHAMBERLIN, PRINTER TO THE QUEEN'S MOST  
EXCELLENT MAJESTY.

1890.

*To His Excellency the Right Honourable Lord STANLEY of PRESTON, Governor General of Canada, &c., &c.*

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to lay before Your Excellency the Report of the transactions of the Department of the Interior for the year ending 31st October, 1889.

Respectfully submitted,

E. DEWDNEY,

*Minister of the Interior.*

OTTAWA, 3rd March, 1890.



# TABLE OF CONTENTS.

Report of the Deputy of the Minister of the Interior.....	PAGE. ix
PART I.—DOMINION LANDS.	
Report of H. H. Smith, Commissioner of Dominion Lands.....	3
do Wm. Pearce, Superintendent of Mines.....	21
do J. M. Gordon, Inspector of Dominion Lands Agencies.....	27
Annual statement of business transacted at the several Local Land agencies in Manitoba, the North-West Territories and British Columbia.....	29
do Agent of Dominion Lands, New Westminster, B.C.....	33
do G. U. Ryley, Clerk of Timber, Mineral and Grazing Lands.....	35
Schedule showing names of Lessees of Grazing Lands, and areas covered by Leases.....	38
Statement of Receipts on account of Crown Timber.....	40
Statement of Receipts on account of Grazing, Hay and Mineral Lands.....	41
A.—Statement showing Receipts on account of Timber, Graz- ing, Hay and Mineral Lands, commencing with the Depart- mental year 1872-73 and ending 31st October, 1889.....	42
B.—Statement showing Receipts on account of Timber, Graz- ing, Hay and Mineral Lands, commencing with fiscal year 1872-73 and ending 31st October, 1889.....	43
do E. F. Stephenson, Crown Timber Agent, Winnipeg.....	44
Statement of Receipts at Crown Timber Office, Winnipeg.....	47
Statement showing quantity of Lumber entered at the Port of Winnipeg during year.....	48
Statement showing saw-mills operating under License in Mani- toba, Keewatin and Assiniboia.....	49
Summary of correspondence and transactions at Crown Timber Office, Winnipeg.....	51
do Thos. Anderson, Crown Timber Agent, Edmonton.....	52
Statement of Receipts at Crown Timber Office, Edmonton.....	53
Statement showing saw-mills operating under License in the Edmonton Agency.....	54
Statement of correspondence and transactions at Crown Timber Office, Edmonton.....	56
do C. L. Gouin, Crown Timber Agent, Calgary.....	56
Statement of Receipts at Crown Timber Office, Calgary.....	57
Statement showing saw-mills operating under license in the Calgary Agency.....	58
Statement showing correspondence and transactions at Crown Timber Office, Calgary.....	60
do J. McTaggart, Crown Timber Agent, Prince Albert.....	61
Statement of Receipts at Crown Timber Office, Prince Albert...	62
Statement showing saw-mills operating under License in the Prince Albert Agency.....	63
Statement of correspondence and transactions at Crown Timber Office, Prince Albert.....	64
do T. S. Higginson, Crown Timber Agent, British Columbia.....	65
Statement of Receipts on account of Crown Timber in British Columbia.....	66

	PAGE.
Statement showing saw-mills cutting timber on Dominion Lands in British Columbia.....	67
Report of Wm. Mills, in charge of Ordnance and Admiralty Lands.....	68
Statement of sales during the year.....	71
Statement showing localities on account of which moneys have been received.....	71
Statement of Receipts.....	72
do J. A. Pinard, Accountant of the Department.....	73
Statement of Receipts on account of Dominion Lands.....	74
Appendix A—Statement showing number of entries made at Head Office, and the Agency of the Temperance Colonization Society...	75
do B—Statement showing number of Letters Patent issued, and number of acres patented.....	76
do C—Statement showing Registration Districts for which Lists of Patents have been prepared.....	77
do D—Statement showing number of Deeds of Transfer recorded at Head Office, and amount received as fees therefor.....	77

## PART II.—DOMINION LANDS SURVEYS.

Report of E. Deville, Surveyor General.....	3
Schedule showing D. L. Surveyors employed during year.....	8
do W. F. King, Chief Inspector of Surveys.....	10
do Otto J. Klotz, D. T. S., computation of limits of Railway Belt in British Columbia.....	13
do J. S. Dennis, Inspector of Surveys.....	17
Schedule of Correction and Examination Surveys performed during season.....	21
do J. McAree, D.T.S., Correction Surveys in Manitoba.....	22
do L. Gosselin, D.L.S., Correction Surveys on and near 2nd Meridian.....	26
do E. W. Hubbell, D.L.S., Examination and Correction of Surveys...	28
do E. Bray, D.L.S., Survey of Township outlines.....	31
do J. McLatchie, D.L.S., Survey of Township outlines.....	33
do C. F. Leclerc, D.L.S., Survey of Half-breed Settlement on South Saskatchewan River.....	38
do J. L. Reid, D.L.S., Correction, Sub-division and Trail Surveys ....	39
do P. R. A. Belanger, D.L.S., Survey of Trails and Settlements at Lake Ste. Anne and Lac la Biche.....	40
do W. S. Drewry, D.L.S., Triangulation Survey of Railway Belt in Rocky Mountains.....	44
do J. J. McArthur, D.L.S., Topographical Survey in Rocky Mountains	51
do A. Saint Cyr, D.L.S., determining limits of Railway Belt, British Columbia.....	53
do A. Driscoll, jr., D.L.S., Sub-division Survey and Traverses in British Columbia.....	56
do J. A. Kirk, D.L.S., Sub-division of Townships and fixing boundary of Railway Belt in British Columbia.....	59
do John Vicars, D.L.S., Survey in New Westminster District .....	61
do E. Bray, D.L.S., Survey of Township outlines between Lakes Winnipeg and Manitoba.....	63
do W. T. Thompson, D.T.S., Survey of Township outlines.....	66
do C. F. Miles, D.L.S., Surveys in southern part of District of Alberta	73
Examination Papers of Board of D. L. S. Examiners.....	77

## PART III.—GEOLOGICAL SURVEY.

Report of Dr. A. R. C. Selwyn, Director of the Geological and Natural History Survey.....	3
---	---

	PAGE.
Explorations and Surveys in British Columbia.....	6
do do North-West Territories.....	10
do do Manitoba.....	12
do do Ontario.....	18
do do Quebec.....	20
do do District around Sudbury, Ont.....	21
do do Eastern Townships, Qué.....	22
do do New Brunswick.....	24
do do Nova Scotia.....	29
Mining and Mineral Statistics.....	31
Chemistry and Mineralogy.....	32
Palæontology and Zoology.....	34
List of additions to Museum.....	37
Botanical work.....	40
Maps.....	41
Library.....	42
Visitors to Museum.....	43
Staff, Appropriation, Expenditure and Correspondence.....	43

#### PART IV.—NORTH-WEST TERRITORIES.

Report of Lieutenant-Governor Royal, embracing therein :—	
Session of Assembly.....	4
Legislation—Ordinances passed by Assembly.....	4
List of Justices of the Peace.....	5
do Notaries Public.....	6
do Commissioners for taking Affidavits.....	7
do Coroners.....	7
do Issuers of Marriage Licenses.....	7
do Fire Guardians.....	7
do Game Guardians.....	9
do Veterinary Surgeons.....	9
do Division Registrars.....	9
do Medical Practitioners.....	9
do Advocates.....	10
do Dentists.....	10
Return of special permissions for the importation of intoxicating liquors during the year.....	11
Report of the Board of Education for the North-West Territories.....	17

#### PART V.—ROCKY MOUNTAINS PARK.

Report of Superintendent of the Rocky Mountains Park of Canada.....	3
Statistical Tables.....	7
Meteorological Tables.....	10
Map of Park.	

#### PART VI.

Report of the Forestry Commissioner.....	3
--	---

#### PART VII.

Report of the Half-breed Commission.....	3
INDEX.	iii

## Part VIII.

### REPORT OF WILLIAM OGILVIE, D.L.S.

#### EXPLORATORY SURVEY OF PART OF THE LEWES, TAT-ON-DUC, PORCUPINE, BELL, TROUT, PEEL, AND MACKENZIE RIVERS.

##### SECTION I.

	PAGE.
Exploratory Survey from the Head of Taiya Inlet, through Taiya Pass, and down the Pelly-Yukon River to the International Boundary between Alaska and the North-West Territories of Canada.....	4
Astronomical Determinations of the Latitude and Longitude at Observatory on the Pelly-Yukon during Winter of 1887-88.....	12
Survey of Forty Mile River, from its mouth to the International Boundary Line.....	16

##### SECTION 2.

Description of the Pelly-Yukon, its Affluent Streams, and the adjacent Country	17
Agricultural capabilities of the Pelly-Yukon Basin.....	34
Timber for use in building and manufacturing.....	36
Minerals.....	37
Table of Distances from Taiya Inlet to Boundary Line.....	49
List of Plants collected.....	50

##### SECTION 3.

Exploratory Survey from the Pelly-Yukon to Mackenzie River by way of Tat-on-Duc, Porcupine, Bell, Trout and Peel Rivers.....	51
--	----

##### SECTION 4.

Exploratory Survey from Fort McPherson to Fort Chipewyan by way of Peel and Mackenzie Rivers, Great Slave Lake and River, and Lake Athabasca.....	67
Exploratory Survey from Mackenzie River through Great Slave Lake and River to Fort Chipewyan, on Lake Athabasca.....	76
Navigability of the various Streams and Lakes.....	78
Table of Distances from Fort McPherson to Fort Chipewyan.....	81
Timber resources.....	82
Agricultural capabilities.....	82
Table showing comparative durations of sunlight at Ottawa, Forts Chipewyan, Simpson, Good Hope and McPherson.....	85
Fish.....	90
Furs.....	91
Minerals.....	92
The Natives.....	95
Fort Chipewyan to Edmonton.....	97
Magnetic Observations.....	98
Meteorological Observations.....	99
do Tables.....	102 to 114

---

ANNUAL REPORT  
OF THE  
DEPARTMENT OF THE INTERIOR  
FOR THE YEAR 1889.

---

DEPARTMENT OF THE INTERIOR,

OTTAWA, 28th February, 1890.

To the Honourable EDGAR DEWDNEY,  
Minister of the Interior.

SIR,—I have the honour to submit the Annual Report of the Department of the Interior for 1889. This report covers the transactions of the Department in all its agencies in Manitoba, the North-West Territories and British Columbia, as well as at the Head Office, up to the 31st October last, and also contains a statement of everything of importance which has happened in relation to the Departmental business up to the close of the calendar year.

INSIDE SERVICE.

I regret to record the death, on the 20th April last, of Mr. P. B. Douglas, who held the position of Assistant Secretary. By that event the Department was deprived of the services of an officer in whom were united, in no ordinary degree, intellectual ability and executive capacity. Although he was still in the prime of life, Mr. Douglas had been in the service of the Government since the establishment of the Department. The vacancy caused by his death was filled by the promotion of Mr. Lyndwode Pereira,

OUTSIDE SERVICE.

During the past summer the Dominion Lands Agency for the Dufferin District was closed and the books and records were transferred to the Winnipeg Land Office. The greater part of the business consisted of correspondence. Nearly all the lands in the southern part of the agency and in the vicinity of the land office at Manitou had been disposed of, and the lands in the northern part of the district could be more conveniently dealt with at Winnipeg, as in order to reach Manitou from this more northerly section it was necessary either to make a long journey across the country or to go to Winnipeg by the Manitoba South-Western Railway, and from thence to Manitou by the South-Western branch of the Canadian Pacific Railway.

For the season of 1889 the agency for the Touchwood District was located at Saltcoats, that point being at the time the terminus of the Manitoba North-Western

Railway. This location was selected for the land office because most of the immigration into the Touchwood District passes over the Manitoba North-Western Railway Company's line, and the land taken up by settlers would naturally be as near as possible to the railway. Mr. T. B. Ferguson, who has for some years been acting-agent for this district, was formally appointed as agent.

The Dominion Lands Office for the Coteau District has been removed from Carlyle to Cannington, as it was found that a majority of the incoming settlers passed through the latter place on their way to take up lands. The resignation of the agent, Mr. J. J. McHugh, has been accepted, and Mr. C. E. Phipps has been appointed as his successor.

I regret to have to report that the Department has lately received the resignation of Mr. H. B. W. Aikman, Agent of Dominion Lands for British Columbia, and member of the Land Board, who quitted the service of the Department on the 1st January, 1890. Mr. Aikman's services have been of great value to the Government, on account of his intimate knowledge of the land affairs of British Columbia; and while his retirement is a great loss to the Department, it is satisfactory to be able to say that he leaves his office in such an efficient condition as to make its administration in future comparatively easy. Mr. John McKenzie, the senior clerk in the New Westminster Land Office, has been promoted to the vacancy.

Representations having been made to the Department as to the difficulty of reaching the New Westminster office from points in the eastern part of the railway belt in British Columbia, arrangements are in progress for the erection of a new land district, to be known as the Kamloops District, and to include the portion of the railway belt lying north of a line between Townships 15 and 16, and east of the 7th Meridian. The land office will be at Kamloops.

#### CROWN TIMBER AGENCIES.

During the year the resignation of Mr. D. J. Waggoner, Crown Timber Agent at Prince Albert, was received and accepted, and the office was abolished, the duties of the position being performed by the agent of Dominion Lands at Prince Albert.

#### HOMESTEAD AND PRE-EMPTION ENTRIES AND SALES.

Following is a comparative statement of the homestead and pre-emption entries and sales which have been made at the several agencies of the Department during the years 1888 and 1889:—

	1888.	1889.
Homesteads, (acres).....	420,333	696,050
Pre-emptions, (acres).....	70,521	212,651
Sales, (acres).....	197,140	177,092

It is very satisfactory to be able to state that the area of land entered by actual settlers under the provisions of the Dominion Lands Act during the past year is greater than in any previous year in the history of the Department, except 1882 and 1883. Since 1885, when the area entered for homestead purposes had fallen to

249,552 acres, the increase has been gradual but continuous. The area for the year 1888 exceeded that for the previous year by over 100,000 acres. The increase in 1889 over 1888 is about 275,000 acres. On the basis which has been assumed in these reports in past years of five persons to each family settled upon a homestead, and making a liberal deduction for possible cancellations on account of failure to comply with the requirements of the law and the regulations, the area taken up as homesteads last year is sufficient to maintain over 20,000 people.

There is also an increase in the area pre-empted of about 130,000 acres. Great care was taken to notify the public that, according to the law, the privilege of pre-emption would terminate with the close of the last calendar year, and settlers were doubtless stimulated by this fact to apply for and obtain pre-emption entries who otherwise might not have done so. It may be important to state in this relation that arrangements are being made by which any inconvenience that might be experienced in consequence of the termination of the pre-emption privilege will be avoided, and settlers who desire to increase their holdings and have the means of farming a larger area than 160 acres will be permitted to purchase on comparatively easy terms the quarter section adjoining the homestead which formerly could have been acquired by pre-emption. This, of course, is a matter which it is within the power of the Governor in Council to regulate under the authority in that behalf conferred by the Dominion Lands Act.

In previous years I have furnished in this report a comparative table showing the land transactions of the Department year by year, from 1872 down to the close of the last Departmental year. On making an analysis of this table for other purposes during the summer, however, I discovered that deductions could be drawn from it which the facts would not warrant. The transactions year by year were stated correctly enough; but as homesteads and pre-emptions have been made the subject of two or even three entries in different years, as the result of cancellation or forfeiture, and as there was ground for thinking that the table would be misleading as to the whole area of land disposed of unless a proper deduction were made for these cancellations and forfeitures, I decided to omit the table this year. I hope, however, to be able to insert it in the report of next year, as the work of examination and correction is now in progress.

I submit, as usual, a statement, showing the number of homestead and pre-emption entries reported in each year since 1874, and the number and proportion of those entries which have since been cancelled for non-fulfilment of the conditions of entry. This table has been carefully revised and corrected from the returns which are received every month from the office of the Commissioner of Dominion Lands and the various Dominion Land Agencies. A comparison with the figures published in previous reports will show that the cancellations which have lately taken place have been principally of entries made in the earlier years of the settlement of the North-West. A very small proportion of the entries made in recent years have been cancelled, showing that there has been a great decrease in the number of speculative entries and a corresponding increase in the number made by *bonâ fide* settlers.

Year.	Homestead.			Pre-emption.		
	No. of Entries.	No. Cancelled.	Percentage Cancelled.	No. of Entries.	No. Cancelled.	Percentage Cancelled.
1874.....	1,376	863	63	643	597	93
1875.....	499	295	59	391	223	57
1876.....	347	145	42	263	131	49
1877.....	845	435	51	594	334	56
1878.....	1,788	1,323	74	1,580	888	56
1879.....	4,068	1,937	47	1,729	1,407	81
1880.....	2,074	627	30	1,004	438	43
1881.....	2,753	864	31	1,649	609	36
1882.....	7,383	2,868	39	5,654	2,066	37
1883.....	6,063	1,196	20	4,120	784	19
1884.....	3,753	528	14	2,762	376	13
1885.....	1,858	109	6	653	75	11
1886.....	2,657	28	1	1,046	9	$\frac{8}{10}$ of 1
1887.....	2,036	12	$\frac{1}{2}$ of 1	585	4	$\frac{1}{10}$ of 1
1888.....	2,655			454		
1889.....	4,416			1,355		

CORRESPONDENCE.

The following statement shows the number of letters received and sent by the Department in each year since its establishment. The total number of letters received and sent during the last year was 99,816, of which 5,816 were received and 7,100 sent by the Geological Survey Branch. This is an increase of 4,111 as compared with 1888.

Year.	Letters received.	Letters sent.	Total.
1874.....	3,482	4,150	7,632
1875.....	1,974	2,189	4,163
1876.....	2,256	3,097	5,353
1877.....	3,137	3,677	6,814
1878.....	4,642	6,009	10,651
1879.....	5,526	6,179	11,705
1880.....	8,222	9,940	18,162
1881.....	13,605	15,829	29,424
1882.....	25,500	30,300	55,800
1883.....	27,180	33,500	60,680
1884.....	27,525	33,386	60,911
1885.....	33,970	43,997	77,967
1886.....	60,964	67,973	128,937
1887.....	47,845	60,890	108,735
1888.....	43,407	52,298	95,705
1889.....	49,316	50,500	99,816

REVENUE STATEMENT.

Herewith is a statement showing the receipts of the Department from year to year since its establishment, from every source except Ordnance and Admiralty Lands, of which an entirely separate account is kept. The net revenue for the last Departmental year was \$588,861.81, as compared with \$563,709.02 for the previous year.



STATEMENT showing Receipts on account of Dominion Lands from 1st July, 1872, to 30th June, 1889.

Fiscal Year.	Homestead Fees.	Pre-emption Fees.		Improvements.	SALES.		Map Sales, Office and Registration Fees, &c.	Surveyors' Examination Fees.	Miscellaneous.	Inspection, Cancellation, and Sundry Fees.	Timber Dues.
		\$	cts.		Cash.	Scrp, &c.					
1872-73.	6,960 00					19,170 20					109 25
1873-74.	7,310 00					19,834 75					2,710 55
1874-75.	11,510 00					13,666 90		129 00	125 50		2,335 25
1875-76.	4,680 00					3,478 94					387 00
1876-77.	2,250 00					1,085 86					320 00
1877-78.	14,540 00					2,704 86			100 00		1,620 00
1878-79.	17,690 00					4,998 39					325 00
1879-80.	41,255 00					45,708 97		81 00	13 70		25,121 46
1880-81.	20,450 00			269 00		71,170 17		245 40	183 25		32,028 34
1881-82.	54,155 00			1,758 00		1,240,328 27		3,036 45	37 58		58,753 14
1882-83.	73,015 00			7,114 91		516,092 21		3,109 50	58 10		90,066 46
1883-84.	41,580 00			2,596 11		424,863 36		1,289 55	501 77		147,983 10
1884-85.	25,645 00			2,328 75		199,275 32		1,621 82	43,766 53		87,474 99
1885-86.	26,110 00			1,101 50		76,140 41		1,339 34	50,068 57		64,820 31
1886-87.	19,614 00			1,971 55		48,175 76		1,171 39	20,070 00		65,111 74
1887-88.	23,691 00			1,918 35		52,238 36		1,660 75	20,591 41		94,964 55
1888-89.	39,460 00			4,128 48		57,513 16		1,410 16	10,389 57		90,290 00
Totals. ....	429,915 00	198,161 01	23,186 65		2,796,535 89	1,975,937 61	16,083 76	5,230 00	192,466 98	52,202 88	764,421 14

STATEMENT showing Receipts on account of Dominion Lands, &c.—Concluded.

Fiscal Year.	GRAZING LANDS.		HAY PERMITS, MINING FEES, STONE QUARRIED, &c.		Rocky Mountains Park of Canada.	COLONIZATION LANDS.		Gross Revenue.	Refunds.	Net Revenue.
	Cash.	Scrip, &c.	Cash.	Scrip.		Cash.	Scrip.			
								\$	cts.	\$
1872-73.								26,239 45		26,239 45
1873-74.								29,980 80		29,980 80
1874-75.								27,641 15		27,641 15
1875-76.								8,865 94		8,865 94
1876-77.								140,755 02		140,755 02
1877-78.								139,584 40		139,584 40
1878-79.								234,732 93		234,732 93
1879-80.								206,801 37	4,636 08	202,165 29
1880-81.								206,990 54	5,038 22	201,952 32
1881-82.	2,245 00		40 00					1,805,734 87	10,687 55	1,795,047 32
1882-83.	22,844 43		913 91					1,031,403 60	8,746 05	1,042,657 55
1883-84.	11,370 60		640 90					1,001,776 67	9,220 50	992,556 17
1884-85.	17,089 75		815 63					451,564 65	12,070 85	439,493 80
1885-86.	29,562 51	3,131 08	1,284 83					457,973 95	63,389 12	394,584 83
1886-87.	14,242 77	39,487 67	1,570 40	80 00				588,532 80	19,543 16	568,989 64
1887-88.	5,922 47	23,023 28	2,273 73	80 00	2,951 58		10,000 00	569,986 68	6,277 66	563,709 02
1888-89.	2,207 69	16,802 63	3,946 55		2,528 73		16,000 00	594,088 04	5,226 23	588,861 81
Totals.	105,485 22	82,444 66	11,485 95	160 00	5,430 31	857,455 80	26,000 00	7,542,652 86	144,835 42	7,397,817 44

J. A. PINARD,  
Accountant.

DEPARTMENT OF THE INTERIOR,  
ACCOUNTANT'S BRANCH,  
OTTAWA, 4th January, 1890.

## PATENTS.

The number of Letters Patent issued by the Department in each year since 1874, and the number of those issued in each year which have since been cancelled, is shown by the following statement:—

Year.	Letters Patent.	
	No. Issued.	No. Cancelled.
Departmental year ending 31st October, 1874.....	536	6
do do do 1875.....	492	4
do do do 1876.....	375	4
do do do 1877.....	2,156	13
do do do 1878.....	2,597	32
do do do 1879.....	2,194	57
do do do 1880.....	1,704	41
do do do 1881.....	1,768	11
do do do 1882.....	2,866	11
do do do 1883.....	3,591	16
do do do 1884.....	3,837	24
do do do 1885.....	3,257	18
do do do 1886.....	4,570	17
do do do 1887.....	4,599	26
do do do 1888.....	3,275	34
do do do 1889.....	3,282	30

As mentioned in last year's report, the Territories Real Property Act was amended during the Session of 1887, by providing that the notification to the Registrar from the Minister of the Interior that the lands described therein have been granted to any railway company entitled to Dominion lands under the authority of an Act of Parliament shall be accepted by the Registrar as if such notification were letters patent in favour of such Company. The same Act provided that the notification to the Hudson's Bay Company by the Minister of the Interior, under the provisions of sub-section 7 of section 22 of the Dominion Lands Act, of the survey and confirmation of the survey of any township or part of a township, shall be accepted by the Registrar as equivalent to letters patent in favour of the Company for the lands to which they are entitled in such townships or parts of townships under the provisions of the Dominion Lands Act. These notifications usually cover considerable areas of land, and the labour incident to passing the Crown title to these areas has, as will be observed by the decrease in the number of patents as compared with previous years, been materially lessened by the operation of the amendment alluded to.

## TIMBER, MINERAL AND GRAZING LANDS.

The revenue from the above sources during the past year amounted to \$102,732.61, a decrease as compared with 1888 of \$19,015.28. The timber dues are less than those of 1888 by \$14,781.92, being for this year \$77,071.97. Of the revenue for timber, \$18,044.77 was derived from bonuses, ground rents and royalties on timber cut from lands in the railway belt in British Columbia, being \$7,522.74 less than the previous year; but the Crown Timber Agent reports that he has collected since the 31st of October last the sum of \$15,147.61 on timber cut within the twelve months preceding that date. Taking this amount into consideration, the dues collected for

timber cut within the Departmental year, namely, from the 31st of October, 1888, to the 31st of October, 1889, amounted to \$33,192.38, being an increase of \$7,624.87 over the amount collected for timber cut during the previous year.

Grazing lands show a decreased revenue, as compared with 1888, of \$7,811.12, but the dues received for hay, \$6,909.55, exceed the amount received the previous year by \$3,539.98.

The receipts for minerals other than coal were \$184.15. No tract of coal land of considerable area was offered for sale during the year, and the amount received from that source was only \$1,662.50, being \$73,037.50 less than the previous year. The total area of coal lands sold up to date is 12,261.63 acres, and the total sum received therefor \$126,171.32.

#### PRICE OF LUMBER.

Following is a comparative statement of the average prices of lumber within the several Crown Timber Agencies for the last five years. The cost of this article to the settler has been very much reduced within that time, and I do not think any further reduction can reasonably be looked for, except at remote points:—

—	1885.	1886.	1887.	1888.	1889.
	Per M.	Per M.	Per M.	Per M.	Per M.
Edmonton.....	\$25 00 to \$30 00	\$15 00 to \$30 00	\$15 00 to \$23 00	\$20 00 to \$23 00	\$20 00 to \$23 00
Calgary.....	25 00 to 30 00	15 00 to 20 00	17 00	12 00 to 18 00	12 00 to 18 00
Fort McLeod.....	30 00	30 00 to 37 00	20 00 to 40 00	15 00 to 43 00	15 00 to 43 00
Prince Albert.....	30 00 to 45 00	30 00 to 42 00	21 00 to 42 00	20 00 to 42 00	20 00 to 42 00
Winnipeg.....	13 50 to 25 00	16 00	10 00 to 40 00	12 50 to 40 00	12 50 to 40 00
Cypress Hills.....	10 00 to 15 00	25 00 to 36 00	10 00 to 12 00	No sales.	13 00
Lethbridge.....		25 00	30 00	30 00	30 00
British Columbia..				9 00 to 10 00	9 00 to 10 00

#### PRICE OF FUEL.

The Crown Timber Agent at Winnipeg reports that fuel is somewhat cheaper than last year, cordwood on the railway car at Winnipeg being \$2.75 to \$4.50 per cord for poplar and spruce, respectively, and \$8.75 is asked for American anthracite coal on car, and \$6.76 for native soft coal. The agent further reports that about 18,000 cords of wood and 30,000 tons of coal were sold in the Winnipeg and western markets during the year, and of the coal thus disposed of about 12,000 tons came from the North-West Territories.

#### LIVE STOCK.

The total number of cattle, horses and sheep in what are known at present as the grazing districts of Alberta and Assiniboia, as reported by lessees of ranches, and computed from information derived from other sources, is as follows:—

Cattle.....	106,963
Horses.....	13,322
Sheep.....	44,822

These totals are only approximate, and cannot be considered as representing the number of live stock within the territory in question, as I have no doubt there is a far greater number than the statistics gathered show. No information has been received as to the number of live stock in Manitoba nor in the remainder of the North-West Territories not included in the districts mentioned.

#### DUES ON BURNT AND FALLEN TIMBER.

During the year 1887 forest fires in Manitoba and the North-West were more than usually destructive, and I regret to say that the experience of last year was equally unfortunate. One of the consequences of these fires has been the partial destruction of quantities of timber upon berths under license to mill owners. It is well known that unless the timber which has been injured by fire is manufactured into lumber within two years from the time of the fire, it is rendered not only useless but harmful, inasmuch as it falls down, and being highly inflammable is a constant source of danger to what living trees there may remain in the locality. During my visit to the North Saskatchewan last autumn it was represented by various deputations of mill owners that it would be very desirable, in the interests of the country, as also in the interests of the licensees of timber berths, that some inducement should be offered to cut and manufacture as much as possible of the timber so injured before it became useless. These representations were duly submitted to you on my return, and steps have since been taken to reduce the royalty upon lumber manufactured from timber of this class to one-half the ordinary amount.

During the early part of last Session, after conference with the Senators and Members of Parliament from Manitoba and the North-West, you issued instructions to permit actual settlers on Dominion lands to obtain permits for 25 cents each, enabling them to cut all the burnt and fallen timber under 7 inches in diameter which they might require for their own use for fuel and fencing. This decision appears to have been very acceptable to the people.

#### TIMBER IN THE RAILWAY BELT IN BRITISH COLUMBIA.

The regulations governing the disposal of timber in Manitoba and the North-West Territories were, in September last, made to apply to timber in the railway belt in British Columbia, except as regards the ground rent for berths situated west of the Eagle Pass, which is 5 cents per acre per annum, as compared with \$5 per square mile, and a rebate of one-half the royalty upon lumber exported to foreign countries, which is also provided for by the regulations of the Provincial Government.

#### HAY LANDS.

In consequence of the injury to the hay crops resulting from cutting the hay before the seed matures, instructions were given in the month of May last that provision be made in the permits to be issued that no hay should be cut before the 20th July. A clause to this effect appears in the regulations of the 17th of September last, and meets with the approval of the people.

The nominal charge of 10 cents per ton for hay cut by settlers for their own use clearly indicates that in adopting the permit system it was never contemplated to derive a revenue therefrom, but the object aimed at, and which I think has been realised, was the preservation of the hay and a fair division amongst the settlers of the crop according to the number of their stock.

The Commissioner of Dominion Lands has recommended that hay lands be sold by public auction or otherwise, giving as his reason that the work involved under the present system seems to be out of all proportion to the revenue. This is very true, for, as already explained, the system never contemplated the creation of revenue; but if the hay lands pass out of the hands of the Government, it is a question whether the settlers at large would obtain as fair a division of the hay in their neighbourhood and at such a low figure as they do now. This is a matter which will require careful consideration.

#### FOREST FIRES.

It has been suggested that the Department should take further precautions for the prevention of forest fires. This might be possibly done if the present staff of forest rangers were greatly increased, but the good to be derived from this large additional expense would, I am afraid, not be adequate to the cost incurred. Our agents have rendered good service in endeavouring to prevent forest and prairie fires, and bringing to justice those who have originated them. I think it will be found that these fires will be of less frequent occurrence when the country becomes more settled, as the settlers will naturally, for their own protection, do all they can to prevent them. Meantime, I fear no increase of the staff which would be at all reasonable would be effective in protecting the timber on our public lands from these destructive visitations.

During my visit to Edmonton last season, what I had already heard as to the rapid reproduction of trees by natural processes on land on which the timber had been burned was confirmed by personal observation. Trees which are now springing up will, in the course of a few years, be at least fit for fuel, so that there need not be the slightest alarm that there will not always be a plentiful supply of wood for settlers.

The subject of re-foresting the prairie is one which deserves the greatest attention, but falls I think within the scope of the experimental work being conducted so ably and successfully under the Department of Agriculture by the Director of the Experimental Farms.

#### MINERALS WITHIN THE RAILWAY BELT IN BRITISH COLUMBIA.

At the date of last year's report the question of the ownership of the precious metals in the railway belt in British Columbia had been argued before the Judicial Committee of the Imperial Privy Council, and on the 3rd of April following judgment was delivered to the effect that they are vested in the Crown, subject to the control and disposal of the Government of British Columbia. In view of the anomalous condition of mineral rights within the belt, arising out of this decision, the jurisdiction over the lands being vested in the Dominion Executive, and the right to administer the precious metals being the concern of the Province, the following arrangement

between the two Governments was ratified by Orders in Council dated the 11th and 28th of February, 1890:—That all minerals, with the exception of coal, within the belt, may be administered under the mining laws of the Province; that all Dominion lands within the belt containing minerals, not being Indian reserves or settlements, and not being under license or lease from the Dominion Government, shall be open for purchase by the Provincial Government at the price of \$5 per acre; that nothing in the agreement shall apply to coal lands, or interfere with the operation of sub-section 4 of section 29 of the Dominion Lands Act, which provides that such unoccupied lands as the Minister deems expedient from time to time may, when he so orders, be withdrawn from ordinary sale and settlement and sold at auction to the highest bidder; that the agreement may be terminated at any time by either Government; and that all minerals, including gold and silver, within Indian reserves, shall be administered by the Department of Indian Affairs.

#### SCHOOL LANDS.

It was not considered advisable to hold any general sale of school lands in Manitoba or the North-West Territories during the past year. In Manitoba, Section 11 in Township 10 Range 19 west of the First Meridian, near the town of Brandon, and Section 29 in Township 13 Range 19 west of the First Meridian, adjoining Rapid City, were offered for sale on the 22nd and 29th of December, 1888, respectively, and realized very satisfactory prices. Of the Brandon section, 293.16 acres were disposed of, part in villa lots and the remainder in one quarter section, for the sum of \$7,238.34, or \$24.70 per acre. The north half of the school section at Rapid City was offered in quarter sections; the south half in 147 town lots. The north-east quarter, 156 acres in area, was sold for \$1,326, or \$8.50 per acre, and 55 town lots were disposed of for \$2,598, an average price of \$47.23 per lot. In June, 20 acres of Section 11 in Township 15 Range 18 west of the First Meridian, situated near Minnedosa, were sold by auction for \$20 an acre. In the North-West Territories, a sale was held at Calgary during the month of July, at which the undisposed of portion of Section 11 in Township 24 Range 1 west of the Fifth Meridian, 515.92 acres in area, for which a number of applications had been made, was offered at public auction, and realized the sum of \$8,265.96, or \$16.02 per acre.

The portion of the south-east quarter of Section 11 in Township 22 Range 29 west of the Fourth Meridian, situated south of the Bow River, and containing 63.80 acres, was also offered at the same sale, and was disposed of for \$414.70, or \$6.50 per acre.

With a view of obtaining accurate information for record as to the character and value of the school lands in Manitoba, also for the purpose of ascertaining to what extent these lands have been squatted on, and the nature and extent of the settlement in each case, a system of school lands inspection was established in May last, and a competent person was temporarily employed as inspector. Later on, the services of two of the forest rangers of the Department were also utilized for the purpose. The inspection for the present is chiefly confined to school sections applications to purchase which have been made, and from the information already obtained the Department will be in a position to appraise these lands accurately and to select for the next sale, after consultation with the Provincial authorities, those which have most nearly reached their fair maximum value.

## SCHOOL LANDS ACCOUNTS.

The revenue from school lands for the year ending the 31st of October last was as follows:—

Manitoba .....	\$42,859 82
North-West Territories.....	11,159 74
Total.....	<u>\$54,019 56</u>

This statement merely shows the sum received, but from that will have to be deducted the amounts chargeable to the fund. I am now in correspondence with the Finance Department with a view to having the accounts adjusted so that the interest, if any, due upon the Manitoba account, may be paid over to the Provincial Government for the purposes specified in the provisions of the Dominion Lands Act having reference to the school endowment. Under the Act 41 Victoria, Chapter 13, \$30,000 has been advanced at different times to the Local Government for the more pressing needs of education in the Province, and, according to the Act cited, this sum would bear interest at 5 per cent. per annum until repaid out of the proceeds of the first subsequent sale of school lands. The cost of administration will also, of course, have to be deducted; but that at most will be very trifling.

## THE MORMON COLONY AT LEE'S CREEK.

It will be remembered that when the delegation of intending Mormon settlers visited Ottawa in December, 1888, they gave to the Government the most positive assurance that in removing to Canada they understood that they were coming to a country where the law forbade the practice of polygamy, and that they intended and desired in good faith to conform to this law. During the past year, however, representations reached the Department from various sources in the North-West that the Mormons of the Lee's Creek colony were not adhering to the pledge given by their delegates; and communication was had with Mr. Charles O. Card, the leader of the settlement, calling his attention to these representations, and stating that there was likely to be a strong public sentiment against the Mormons unless it could be immediately and clearly proven that the statements were untrue. Replies were promptly received from Mr. Card and other leading men of the colony, in which it was stated that they had not lost sight of the agreement which they had entered into with the Dominion Government, denying the truth of the charges made against the members of the settlement, and inviting the fullest investigation into the doings of the community.

## TOPOGRAPHICAL SURVEYS.

Last season was not a favourable one for the surveys. During the greater part of the summer great fires ran over the Rocky Mountains, and the smoke in British Columbia and the western part of the Territories was so dense as to interfere seriously with survey operations. Several parties were idle for long periods, and most of them lost much of their time.

The demand for the sub-division of land in new localities continues to increase. This is due in part to the progress of branch railways, and in part to isolated settlements formed on choice pieces of land outside of surveyed territory. It has been



the endeavour of this Department to meet this demand, and notwithstanding the small number of surveyors employed and the moderate amount expended for surveys, it is satisfactory to be able to state that the requirements of the settlers have been fully attended to.

A large proportion of the appropriation was spent on the railway belt in British Columbia, not because a large extent of territory has been covered, but because the nature of the country renders survey work slow and expensive.

As usual, a table of sub-division or settlement survey work completed each year since the commencement of the survey is given hereunder, with the results of last season added.

	Acres.	No. of Farms of 160 acres each.
Previous to June, 1873.....	4,792,292	29,952
In 1874.....	4,237,864	26,487
1875.....	665,000	4,156
1876.....	420,507	2,628
1877.....	231,691	1,448
1878.....	306,936	1,918
1879.....	1,130,482	7,066
1880.....	4,472,000	27,950
1881.....	8,147,000	50,919
1882.....	9,460,000	59,125
1883.....	27,000,000	168,750
1884.....	6,400,000	40,000
1885.....	391,680	2,448
1886.....	1,379,010	8,620
1887.....	643,710	4,023
1888.....	1,131,840	7,074
1889.....	516,960	3,231
	<u>71,326,972</u>	<u>445,795</u>

The total area sub-divided and set out for settlement is 71,326,972 acres, which, on the basis of five persons to each farm of 160 acres, would sustain an agricultural population of 2,228,975 persons, the number of such farms being 445,795.

#### GENERAL REMARKS ON SURVEY WORK.

An important step has been taken in relation to the mountain surveys, both in British Columbia and the North-West Territories, in beginning a triangulation which will eventually cover the whole of the mountainous territory under the control of this Department. In such a country the holdings occupied or lots of land owned by different parties are necessarily much scattered. Large spaces are valuable only for timber. At other places the rock is bare, while here and there are isolated patches or valley bottoms of the finest agricultural land. To run section lines over the whole of such a country would not only be a waste of money, but in many cases would be impossible. Under the system hitherto followed in British Columbia, the process for connecting a point with the township surveys consisted in running the township lines from the railway as far as the point to be connected.

Thus, for surveying a claim near the boundary of the belt at least twenty miles of township lines—and nearly always a much greater distance—had to be run. It is easy to understand that surveys in such a country are expensive, and the connection of a single claim might very well cost \$3,000 or \$4,000, without even the satisfaction of having established useful survey lines, while the greater part of them would prove quite useless, except for the particular purpose to which their origin was due. Apart from the excessive cost of such surveys, the time required for their execution is a very serious objection. It would take years to have provision made in the Estimates for the cost of the survey, to organize the party, to execute the work, and receive the returns. The triangulation now being carried out will determine, over the whole extent of the mountains, a number of points ten or fifteen miles apart, generally high peaks visible from a great distance. The position of any place from which three of these points are seen can at once be fixed, and the cost of the work will probably not exceed a few cents per square mile. After triangulation comes the topographer, who delineates rapidly the configuration of the country, the course of the main streams and creeks, the outlines of the lakes, the timber and prairie areas—the result being an exhaustive map of the country, showing its resources in detail, and at a small outlay, and permitting intelligent plans to be devised for their development.

#### THE LAC LA BICHE COUNTRY.

A survey party having been sent to Lac la Biche, near the Athabasca River, for the purpose of laying out the lands settled upon, the surveyor in charge, Mr. P. R. A. Belanger, reports that he found the land very good and well adapted for farming. "The climate," he says, "is very fine—so fine that I do not hesitate to say there is not its equal in any settlement in the North-West. The inhabitants of the place agree in saying that they have never seen any frost to injure their crops." It is now well recognized that a reasonable amount of care on the part of the farmer will generally insure immunity from frost anywhere in the settled part of the Territories, but at Lac la Biche, where the settlers are all Half-breeds, it is doubtful whether even that amount of care has been exercised in putting in the crops. Without, however, going so far as Mr. Belanger does in claiming any marked superiority for this settlement over other districts, it is gratifying to find that it is not inferior to any. This evidence is of great importance, the meteorological conditions at Lac la Biche being the same as on the Athabasca and Peace Rivers; and it is thus safe to expect that when the tide of emigration reaches that far north country the settlers will find there a climate fully equal to the average of the Territories.

#### THE YUKON AND MACKENZIE EXPEDITION.

Perhaps the most interesting feature of this report is the account given by Mr. Wm. Ogilvie, D.L.S., of the surveys, observations and explorations which he conducted in the Yukon and Mackenzie country, and which will be found in one of the appendices hereto. Mr. Ogilvie was absent from civilization for nearly two years, during which time he made instrumental and track surveys covering a total distance of 2,700 miles in a wild and almost unexplored country, some portions of which, it is certain, were never visited by a white man before. The energy, enterprise and intrepidity of Livingstone, Stanley and others who have explored the wilds of

Africa, have received at the hands of the public of all civilized nations the acknowledgement which they merited. In simple and unpretentious language Mr. Ogilvie tells the tale of an expedition of great magnitude and importance, conducted so efficiently, so inexpensively and so rapidly, and yet involving such dangers and hardships as I think will fairly entitle him to rank as one of the first, if by far the most modest, of the explorers of the nineteenth century.

#### GEOLOGICAL SURVEY.

A summary report by the Director of the operations of the Geological Survey forms Part III of this volume. During the earlier part of the summer the Director was occupied in supervising the printing of the annual report, and in connection with other administrative matters. Subsequently, he made an examination of a number of points on the north shore of the Gulf of St. Lawrence, as far east as Belle Isle, and after his return from this trip visits of inspection were made to the Eastern Townships of Quebec, Sudbury and Algoma. Investigations were also made in connection with the question of water supply by artesian wells in Manitoba and adjacent regions.

In pursuance of the general work of the survey throughout the Dominion, sixteen parties were in the field during a part or the whole of the summer.

In British Columbia Dr. Dawson made a preliminary examination of the West Kootenai district, which at the moment appears to be of greatest importance in respect to discoveries of rich ores, and in which a large number of silver-bearing deposits have been discovered and partially developed. The remainder of his time was spent in detailed surveys of a region which includes part of the Thompson and Fraser Rivers, of which a geological map is in course of preparation. On the Lower Fraser Mr. Bowman spent some time in continuing his work on the newer formations in which deposits of coal of economic value may be expected to occur.

In the North-West Territories Mr. McConnell was entrusted with an examination of a tract of country between the Peace and Athabasca Rivers, with special reference to the occurrence of petroleum, which has been reported from a number of localities in that district. Mr. Tyrrell was again occupied in the country to the west of Lake Winnipeg in extending and completing former examinations, with a view to a detailed report on that country. In the country to the north-west of Lake Superior surveys toward the detailed geological delineation of the region were continued by Dr. Lawson. Mr. Ingall prosecuted, during the greater part of the summer, his examination of the phosphate region of the Lièvre district, making detailed surveys and examinations where necessary.

In the vicinity of Sudbury, of special interest from its copper and nickel deposits, surveys were carried on by Dr. Bell, with a view to the completion of those already effected. Mr. Low was employed in the geological mapping of the country on the north side of the St. Lawrence in the Counties of Quebec and Portneuf, while Dr. Eells was engaged in carrying out work toward the completion of the south-west quarter-sheet of the map of the Eastern Townships; and some further work was carried out in the St. Maurice district and Saguenay region by Mr. Adams and Rev. Abbé Lafamme. In New Brunswick and adjacent parts of Quebec, Prof. Bailey, Mr. McInnes and Mr. Chalmers pursued field work in continuation of that already undertaken

and required for the completion of several sheets of the systematic geological map which is being extended over these parts of the Dominion.

Messrs. Fletcher and Faribault spent the season in extending the area of the systematic geological examination and mapping of Nova Scotia, the first mentioned gentleman working in Pictou and Colchester Counties, the second in Colchester and Halifax Counties.

A large amount of botanical work has been accomplished during the past year by Prof. Macoun; and, in addition to botanical collections, important zoological collections were made by him in British Columbia. The palæontological work, under Mr. Whiteaves' charge, has progressed satisfactorily, and several important publications have been issued. Interesting collections of fossils were also made in this branch by Mr. Weston in the North-West Territories. The chemical work, under Mr. Hoffmann, shows, as usual, a large number of analyses, assays and examinations of specimens brought in by the various field geologists, or received from other sources.

The continued additions of material to the Museum and to the Scientific Library of the Geological Survey render every day more and more apparent the necessity of a more commodious building for their adequate display and safe-keeping. The building at present occupied by the Survey, though sufficient at the time of its original occupation, cannot any longer be considered as satisfactory, and is exposed, by reason of its construction and contiguity to other buildings, to constant danger from fire. In view of these circumstances, it appears to be necessary to consider the advisability of providing, in the near future, some better accommodation for the collections and offices of the Geological Survey.

#### ROCKY MOUNTAINS PARK.

Mr. Stewart, Superintendent of the Park, reports that a considerable amount of work has been done during the past season in improving the roads and avenues already constructed, and in opening out new ones, the most important of the latter being one from the Spray River bridge down the Bow River, round the base of Peak Mountain and back again by the Bow River, which, when completed, will afford a charming drive of some seven miles. Several of the streets in the village of Banff were also graded and otherwise improved.

During the summer, which was an exceptionally dry one, forest fires were unusually prevalent in the mountains, and in the month of June a very serious one, approaching from the west, swept all before it to the very boundaries of the Park, and threatened to extend into it. Fortunately, partly owing to the protection afforded by the bare summits of the mountains, and partly to the extensive system of "fire-breaks" cut out about the Park, the damage caused was comparatively trifling. There is, however, no doubt that the prevalence of smoke from these fires interfered to some extent with the pleasure of visitors, as much of the beauty of the mountain scenery was lost in consequence of it, and but for this drawback the number of visitors, though exceeding that of any previous year, would have been still greater.

A new nursery has been laid out in a better situation than the previous one, and as the soil is good and the facilities for watering excellent it is confidently hoped that it will prove a success.

The varieties of deciduous trees which were imported and planted out have thriven well, about 75 per cent., so Mr. Stewart reports, having succeeded; but the imported evergreens have to a large extent proved a failure, and it is feared that very few of them will live. There is, however, a plentiful supply of evergreens in the Park already, so that the failure of the imported ones is not of so much consequence, the object in obtaining them being merely to secure, as far as possible, the different varieties of these trees.

The Eau Claire and Bow River Lumber Company have relinquished limits A and C, which include nearly all the timber lands within the Park which have been under lease. There is now but one timber berth within the limits of the reservation, and an effort is being made to exchange other lands for it.

During the month of October the Park was visited by their Excellencies the Governor General and the Lady Stanley of Preston, and suite, who remained there three days. It was also selected for the annual meeting of the Medical Association of Canada, and it is much to be regretted that the visit of this important body should have fallen upon a time when the forest fires were so prevalent, as their impression of the Park would be received under very unfavourable conditions.

A great improvement has been made in the establishment of the telephone system in the Park, connecting the Government offices with the police barracks, hot springs, hotels, &c.

Mr. Stewart submits with his report an interesting statement showing the temperature and other particulars of the weather during the past year, and also a statement showing the number of visitors to the Park, and their nationalities.

With this report will be found a very well executed map of the Park, which I believe will add not a little to the interest with which the publication of the volume will be received.

#### THE SCOTCH CROFTERS.

Another detachment of Crofters from the western highlands and islands of Scotland arrived in Manitoba last spring, and were placed upon homestead lands in the neighbourhood of Saltcoats, the present western terminus of the Manitoba North-Western Railway. The actual condition of these people has been the subject of a good deal of discussion and misrepresentation in the British press. To say that they are not yet particularly well fitted to make their living purely by the cultivation of the soil in a new country would not be more than the facts would warrant one in saying in regard to almost any similar number of immigrants from any part of the world who settle in a body. These people are under the disadvantage of having their experience of agriculture in the past confined to the cultivation of small crofts, with which they combined fishing. Many of the best settlements in Canada, however, have been formed by people less fitted for agricultural work, and although at first occasional disappointments and discouragements are to be expected, I see no reason to doubt that in the end the experiment will be a successful one. The colonists in this case were assisted, as were the Crofters who arrived the previous year and who went into the Pelican Lake country, in Southern Manitoba, by advances made by the Imperial Government, which advances are to be repaid in twelve years, and are secured by liens on the homesteads of the settlers. Frequent reports have been

received during the winter, through the Commissioner of Dominion Lands, from the agent of the Imperial Government, who is resident among them. These reports completely refute the statements made as to alleged distress existing amongst the Crofters. As might have been expected, the clothing of the immigrants was not well suited to the climate, and appeals were made in Toronto and Winnipeg to the rich congregations of the Presbyterian Church—to which church these people chiefly belong—to contribute articles of warm clothing for the benefit of the young and aged. This appeal, it will be satisfactory to learn, was answered promptly and liberally: and it was, so far as can be learned, the sole ground for the exaggerated reports alluded to.

#### GRAIN CROP.

The Commissioner of Dominion Lands has furnished, in his contribution to this volume, a statement of the crop results of last season for Manitoba, as calculated by the Provincial Government. The figures are as follows:—

	Bush.
Wheat.....	7,200,000 approximately.
Oats.....	3,415,000 do
Barley.....	1,051,000 do
Potatoes.....	1,393,000 do

This statement, of course, does not include the North-West Territories, and a considerable proportion would have to be added to the figures under each head on that account. There is no doubt that the result, in many instances, was a disappointment to the farmers, although the yield per head of the population would appear to be very large. The drought which prevailed all over the whole western country seemed to be much more detrimental to the crops in some localities than in others, and while the average crop therefore would, from the figures presented, seem to be high, there is scarcity in some localities. But although the harvest north of the 49th parallel was not as good as could be wished, the people of the North-West and of Canada generally have reason for great thankfulness when a comparison is made with the condition of affairs in Minnesota and Dakota, where there is an almost absolute failure, resulting in great and widespread distress. Unfortunately, some of the settlements in the States mentioned which are made up chiefly of Canadians have been the worst sufferers, and appeals have been made to their fellow-countrymen at home for aid, which it is fervently to be hoped will be responded to. There is every reason to believe that a great many of the Canadians in Minnesota and Dakota have had cause to regret that they left their own country, and there is strong probability that the stream of immigration from the States mentioned to Manitoba and the North-West, which has been steadily growing for the last two or three years, will be greatly augmented during the coming season.

#### THE HALF-BREDS OF THE NORTH-WEST TERRITORIES.

In September last, with your authority, and under your instructions, I paid a visit to the settlements on the Saskatchewan River, and while prosecuting the duties naturally falling to me in regard to the public lands and land offices in the districts visited, I availed myself of every opportunity to enquire into the condition and prospects of the Half-breed population. I was accompanied by Mr. Deville, the

Surveyor-General, who is a French-speaking gentleman, and I found that he greatly facilitated my communications with these people, for I am not myself sufficiently familiar with the language to speak it with readiness. At that period of the year a large number of the Half-breeds were engaged in freighting between the railway and the centres of trade and population on the North Saskatchewan, and in this way I met and travelled with a great many of them along the trails, besides which I obtained much valuable information from the missionaries of all denominations and from leading merchants and farmers in the Territories. The route of travel took me through Qu'Appelle, the settlements on the south branch of the Saskatchewan, Prince Albert and its vicinity, Duck Lake, the south bank of the Saskatchewan from the Elbow to Battleford, and thence to Swift Current. From Swift Current I went to Calgary by rail, and from Calgary north to Edmonton and St. Albert. I learned that while in some cases the Half-breeds have made successful efforts to gain a livelihood by the cultivation of the soil, the great majority (especially of those of French origin) although claiming tracts of land as homesteads in various parts of the Territories by virtue of actual occupation, continue to live a more or less roaming life, and to look to trading and freighting as their chief means of support. Those who have devoted themselves solely to farming are at present, and are likely to continue to be in the future, self-supporting; but those who only cultivate small patches of land and with their families are absent from their holdings during the greater part of the year trading and freighting, were merely earning a bare living, with the prospect that during the winter many of them would be in straitened circumstances. The soil had been rather unskilfully prepared for the little crop which they had put in the ground, and in many instances, owing to the abnormal drought of the summer, they received no return whatever, while the average crop all over was poor, especially potatoes.

A great majority of the Half-breeds were then, as already stated, engaged in freighting. For this business in the Prince Albert district their services were in increased demand on account of the lowness of the water in the Saskatchewan and the consequent failure of the Hudson's Bay Company's boats to make their usual trips, the effect of which was to necessitate transport overland for a large portion of the distance between Lake Winnipeg and Prince Albert of what would otherwise have reached that point by water, and to produce an increase in the quantity of goods imported by way of the railway *via* Qu'Appelle station. The distance from Qu'Appelle station to Prince Albert is about 240 miles, and under the most favorable circumstances it would take the ordinary Half-breed team from twelve to fifteen days, barring accidents, to make the journey with a load, and not less than seven days to make the return journey without a load. To this should be added three days for loading and unloading, and waiting at either end of the journey, or from twenty-two to twenty-five days altogether. For this service the freighter received from the Hudson's Bay Company and other importers remuneration at the rate of \$1.00 per cwt. if he was paid in cash, \$1.25 per cwt. if he was paid half cash and half "in trade," or \$1.50 per cwt. if the whole account was settled "in trade." It will readily be understood that this left practically no margin for profit, but simply furnished the means of subsistence for the freighter and his family during the time the work lasted, leaving nothing to lay by for the winter, nor with which, if a horse died or a cart were disabled, the loss could be made good.

The reports received through the North-West Mounted Police officers from time to time during the winter show that there has been some actual destitution amongst these people which, in every instance, has been relieved as seemed most fitting under the circumstances; but I have no doubt, from what I saw and heard, and in view of the severity of the winter weather, that there must also have been a good deal of real hardship of which we have not heard. Before next winter a line of railway will have been completed and running from Regina to Prince Albert—another of the few remaining sources of making a living will have been taken away from the Half-breed population, and there will thereafter be left to them in this line of business only the freighting from Saskatoon to Battleford, from Calgary to Edmonton, and from Edmonton, Battleford and Prince Albert to the northern country. I was careful to ask the missionaries of all denominations, and other people intimately acquainted with the habits and inclinations of the Half-breeds, what they supposed would become of them when there was no longer any considerable amount of freighting to be done, and the conclusion to which I was driven was that the problem is one which nobody who has earnestly considered the subject sees any means of solving satisfactorily. No doubt, said some, a large number of them will turn to farming; but in this occupation it is to be feared, judging from their history and training, that those who have been brought up as freighters or traders would not, during the present generation at least, be very successful. Neither would the existing generation, as a rule, make satisfactory laborers or domestic servants. They are not accustomed to the subjection and control to which they would have to submit in those capacities, and experience has proved that they do not take kindly to such employment.

Among the Half-breeds themselves, and the majority of the white people, there is an almost unanimous opinion that the Government should come to their relief by granting scrip, as recommended by the North-West Legislative Assembly, to all the Half-breed children born in the country between 1870, the date of the transfer, and 1885, when the Government commenced to enquire into and deal with the claims of the Half-breeds as a special class of the community. It may be desirable in this relation to state that the Half-breeds of Manitoba and the Half-breeds of the North-West Territories have had their claims, as the descendants of the Indians, dealt with on precisely the same basis—that is to say, all heads of families living at the time of the transfer have received \$160 in scrip, and all the Half-breed children born and living at the same date either 240 acres of land or \$240 in scrip.

Except the Rev. Father Fourmond, the Roman Catholic priest in charge of the mission at St. Laurent, I found the missionaries of all churches unanimously opposed to this proposition. The Half-breeds, as a class, they say, have no adequate conception of the real value of money. Any sum given them in hand would be sure to be dissipated in a short time for not very economical, and in some cases even harmful purposes; and it would appear that the temporary possession of a large amount of cash or what can readily be converted into cash has a tendency to make them more discontented with their condition and more unwilling than ever to settle down to hard work. The scrip distributed as the result of the work of the Commission of 1885-6-7, while in many cases effective in assisting industrious and economical Half-breeds to buy stock and implements, left the great majority of the recipients poorer than



before. In a few months the scrip had passed into other hands, and little or nothing remained to show for it. I am informed that the Half-breeds are largely indebted to the white traders, and if this be the case it would doubtless account to a very considerable extent for the unanimity of the white people in demanding a new distribution of scrip; for the Half-breeds as a class are disposed to meet their obligations when they have the means. Looking at this matter in the light of the facts related, and bearing in mind the views entertained by the disinterested friends of the Half-breeds (I refer, of course, chiefly in this relation, to the missionaries), it is more difficult to understand how the demand should have received the approval of the North-West Assembly, containing as that body does some gentlemen having long experience and intimate knowledge of the North-West, and the history and characteristics of the Half-breed population.

On certificates granted by the Half-breed Commission of 1885-6-7 scrip was issued to 854 heads of families, the representatives of 264 deceased heads of families, 1,862 children and the representatives of 466 children, born in the Territories before the 15th July, 1870, but who have died since that date. The whole amount of scrip issued represented 61,020 acres of land and \$663,474 in money scrip redeemable in land. These figures, it may be added, include 1,292 persons who were formerly treaty Half-breeds. According to the census of 1885 there were in the Territories at that date 4,848 Half-breeds; and assuming that one-tenth of these, or about 500 in all, are Manitoba Half-breeds and their descendants, who would not be entitled to share in the distribution now asked for, and deducting the number of heads of families and children to whom scrip was issued by the Commission (but adding the descendants of the 1,292 persons who were upon the Indian Treaty rolls at the time of the census and have since taken Half-breed scrip, as stated—whose numbers I have put down at probably not less than 2,000) there would remain about 5,000 persons who would be entitled to \$240 each in scrip. This calculation is, of course, a pure approximation, for to ascertain the true figures would involve a long enquiry and the application of means which I have not at my command; but I think it is likely that the results of such an investigation would be found to be pretty nearly as I have calculated. To accede to the demand which has been made by the Half-breeds, supported by the North-West Legislative Assembly, would therefore mean a further distribution of at least \$1,200,000 of scrip. This is a large amount of money, and even if its payment were to finally and satisfactorily solve the Half-breed question, there might be some hesitation about paying so large an amount to so limited a number of people upon the grounds set forth in the request. But I have met no one so far who has alleged that the relief would be otherwise than temporary, or that the need for further relief would not arise at a very early day; and it is therefore difficult to see how, on grounds of equity and good public policy, a step of the kind could be justified.

My own view, which is submitted with much deference when I remember the opportunities which you and others who have lived so long in the North-West must have had of studying this question on the ground, is that the Government should immediately answer the petitions of these people in decisive language, and that answer should be that so many of the Half-breeds as are desirous of continuing to exercise the privileges of citizenship must also accept its full responsibilities, including the support of themselves and their families independent of assistance from

---

the Government of Canada, and that the remainder should be dealt with as wards of the Government. They are a proud spirited people, and it is doubtful whether many of them would be willing to assume that relation; but the experiment might be worth trying. The misfortune is that some of those who profess to be their friends encourage them to look for Government assistance as a matter of right, without making it plain to them that the granting of relief in this form, or for that matter the mere asking for it, involves a distinction between them and their fellow-citizens which entails no small sacrifice of independence and self-respect.

I take this opportunity of acknowledging the frankness with which the various missionaries disclosed to me their views respecting the situation, and their equal frankness in stating that they saw no way in which the Half-breed question—assuming that the Half-breeds are to be dealt with differently from the rest of the people of this country—can be settled upon a satisfactory and permanent basis, which does not involve some form of tutelage for those who are unable to provide for themselves.

#### ORDNANCE LANDS.

The revenue from Ordnance and Admiralty lands for the financial year shows an improvement over the previous corresponding period. This does not include the proceeds of a very successful sale of part of the Logan property, in the city of Montreal, which was held in the last days of June, too late to be included in the current year's transactions.

I have the honour to be, Sir,

Your obedient servant,

A. M. BURGESS,  
*Deputy of the Minister of the Interior.*

---

PART I.

---

DOMINION LANDS.

---



## No. 1.

## REPORT OF THE COMMISSIONER OF DOMINION LANDS.

OFFICE OF THE DOMINION LANDS COMMISSION,  
WINNIPEG, 1st November, 1889.

To the Hon. EDGAR DEWDNEY,  
Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit for your information the following report respecting the work of my own office and the offices under my control, for the Departmental year ending the 31st October, 1889, and concerning certain North-West matters of interest to the Department.

I beg also to enclose the annual reports of Messrs. Pearce (Superintendent of Mines), Gordon (Inspector of Dominion Lands Agencies), and Aikman (Dominion Lands Agent at New Westminster), members of the Land Board, and that of Mr. E. F. Stephenson, the Crown Timber Agent at Winnipeg.

## WORK PERFORMED, REVENUE OBTAINED, AND COST OF MANAGEMENT.

*Commissioner's Office.*

The following is a *résumé* of such of the work performed during the year in my own office as can be presented in a tabulated form:—

*Correspondence Branch.*

## Letters received—

November.....	2,047
December.....	2,850
January.....	3,238
February.....	2,194
March.....	2,783
April.....	3,099
May.....	3,625
June.....	3,764
July.....	3,470
August.....	3,195
September.....	2,801
October.....	3,223

Total..... 36,289

## Letters sent—

November.....	2,182
December.....	2,165
January.....	4,086
February.....	2,414
March.....	2,704
April.....	3,089
May.....	3,553
June.....	3,485

---

July.....	3,731
August.....	3,089
September.....	2,412
October.....	2,506
Total.....	<u>35,416</u>

---

*Cancellation Branch.*

Cancellations carried out.....	1,079
do refused.....	98
do cases pending.....	183
Total.....	<u>1,360</u>

---

*Patents Branch.*

Applications for patent approved.....	<u>1,730</u>
---------------------------------------	--------------

---

In addition to this a considerable number of Manitoba Act cases have been investigated and decided; the Accountant's branch has been busily occupied; and a large amount of work has been done in connection with matters which I will hereafter more particularly refer to, such as school lands, the Crofter settlements, the collection of seed grain advances, the supervision of the Intelligence service, &c.

The cost of the office during the year has been: salaries, \$22,464.11; contingent expenses, \$1,856.96.

I would invite your attention to the following table, comparing the work performed by this office (so far as it can be tabulated) and the cost of management for the past year with each previous year of its existence:—

SCHEDULE "A."

DEPARTMENTAL YEAR.	LETTERS RECEIVED.			LETTERS SENT OUT.						CANCELLATIONS CARRIED OUT.						APPLICATIONS FOR HOMESTEAD. PATENT APPROVED.						SALARIES, ANNUAL.				CONTINGENCIES, ANNUAL.				
	Increase.		No.	Increase.		No.	De-crease.		No.	In-crease.		No.	De-crease.		No.	Increase.		No.	Decrease.		No.	Amount.		Amount.	Increase.		Amount.	Decrease.		
	No.	Per cent.		No.	Per cent.		No.	Per cent.		No.	Per cent.		No.	Per cent.		No.	Per cent.		\$	cts.		\$	cts.		\$	cts.		\$	cts.	Increase, Amount.
1882..... (8 months)	1,546		1,752						335																					
1882-3.....	8,523		8,449						389		424												12,349	20						
1883-4.....	17,936	9,413	110	6,224	73	14,673			1,358	969	250			1,448	1,024	240						16,380	00							
1884-5.....	18,491	555	3			14,273	400		3	1,243		115	81,919	471	32							18,256	69	1,876	69	11½	2,155	92		
1885-6.....	24,488	5,997	32	6,821	48	21,094			924		319	252,983	1,064	55								20,987	58	2,730	89	15	2,786	93	631 01	
1886-7.....	28,096	3,608	15	8,780	42	29,874			616		308	331,367		1,616	54							21,066	18	78	00	3	2,241	22		545 71
1887-8.....	33,309	5,213	19	6,276	21	Letters 32,100 Post cards 4,050			976	360	59			1,645	278	20						21,286	45	220	27	1	2,274	95	33 73	
1888-9.....	36,289	2,980	9	3,316	10½	35,416			1,079	103	11			1,730	85	5						22,464	11	1,177	66	5½	1,858	96		415 99

[PART 1]

During the past year, it will be observed, the work in each branch has considerably increased over that performed in the previous year, while the excess in the cost of management is slight. It will be noticed, too, that there has been a continual and rapid increase in the business transacted by the office since its inception, while the increase in the cost has been comparatively small. While since the first complete year of the office's operation (1882-3) the annual work has more than quadrupled, the annual expense is not quite double what it then was.

It gives me much pleasure to refer to the cheerful and efficient manner in which their duties have been performed by the members of my staff. In order to keep pace with the increase of work it has been frequently necessary for many of them to work overtime, and the observance of a number of statutory holidays has been discontinued.

#### *Dominion Lands Agencies.*

A detailed account of the work and expenses of the Dominion Lands Agencies will be found in Mr. Inspector Gordon's report. I may say, however, that the work has been heavier, the revenue greater and the expense lighter during the past year than in 1888. The increase in the number of homestead entries is very gratifying, 4,416 having been granted last year, as compared with 2,655 the previous year. This, I may point out, is the largest number of homesteads granted in any year in the Department's history, with the exception of the boom years of 1882 and 1883. In those two years, however, a considerable number of the entries were speculative, whereas I believe those granted during the year just closed have been granted to *bona fide* agriculturists. There has also been a very noticeable increase in pre-emption entries, their number being 1,355, as compared with 454 in 1888. The number of general sales is, too, appreciably in excess of those made in 1888. Pre-emption sales, however, show a decrease as compared with the previous year, which is accounted for by the fact that while in 1888 a special effort was made by the Department to collect overdue payments of this class, no such efforts were made last year, protection to those desiring it having been freely accorded. The expenditure this year in connection with agencies has been \$48,747.74½, as compared with \$49,345.61 in 1888, a saving of \$597.86½, while the revenue derived through them has been \$432,114.99, as compared with \$420,110.53 the previous year, an increase of \$12,004.46. The comparison regarding revenue will appear more favorable when it is borne in mind that the pressure put upon pre-emptors in 1888 was relaxed last year, and that the revenue in 1888 was augmented considerably by the efforts made to collect payments in arrears on Calgary town lot sales. The foregoing figures as to revenue include both cash and scrip payments. I desire, by the way, to protest against the practice of giving the Department credit for only the cash received. The scrip outstanding represents a liability on the part of the Government, which, when it receives scrip in payment of lands, this Department discharges, and for directly discharging that liability it is just as much entitled to credit as for such cash received as may be applied indirectly to discharge other liabilities. It would be as reasonable to refuse to credit the Department with any payments made in Dominion Government bills as it is to object to its taking credit for payments made in Dominion Government scrip notes.

During the year the agency at the Rocky Mountains Park has been abolished, and the work formerly done in connection with it has been added to the duties of the Superintendent of the Park. The agency at Manitou has also been closed, in consequence of the greater part of the lands in that district having been entered for, and the district is now incorporated into that of Winnipeg. The officials formerly employed at these two agencies have been removed to other offices, where the work was so pressing as to necessitate extra assistance, and an increase in the staff which would otherwise have been inevitable has thus been obviated. I trust that as settlement progresses it may be possible to close up other agencies in the well occupied parts of the country, so as to provide accommodation for the newer districts without increasing the cost of the service.



*Homestead Inspection Service.*

The number of applications for patent and cancellation having been larger, the work of the Homestead Inspection Service has been consequently heavier than in the previous year. The following is a statement of its year's work.

Inspector.	No. of Inspections made.	No. of Applications for Patent taken.	No. of Miles travelled.
Thos. H. Aikman .....	340	111	4,268
John Allison .....	487	159	5,321
W. H. Allison .....	540	194	4,994
J. J. Arsenault .....	691	223	4,432
R. S. Park .....	516	249	4,231
John Rogers .....	499	108	5,237
Thomas Swan .....	545	117	4,056
W. R. Gunn (temporarily employed) .....	20	.....	.....
Homestead inspections made by Forest Rangers and Intelligence Officers .....	355	.....	.....
Total .....	3,993	1,160	32,539

The number of inspections made the previous year was 3,898, an increase this year of 95, or at the rate of 2½ per cent. The cost of the service has been : salaries, \$8,794 ; travelling expenses, \$5,675 ; a total of \$14,469. The cost in 1888 was : salaries, \$8,521.71 ; travelling expenses, \$7,799 ; total, \$16,320.71 which shows a saving effected of \$1,851.71. The benefits resulting to the Department, the settlers and the country generally from this service are very great. It protects the Department against fraudulent applications for patent, because, before an application for patent is considered, a Homestead Inspector is sent to examine the land and ascertain by personal enquiry whether the applicant has complied with the law. It is a great convenience to the settler, as it enables him to make application for patent in his own house, without travelling with his witnesses to the local agency, probably a long and expensive journey ; and it protects him from having his claim "jumped" by malicious or unscrupulous individuals, as a cancellation case is never decided without a report having been obtained from an Inspector, who enquires fully into all the circumstances ; it contributes to the improvement of the condition of the country at large by rendering impossible speculative homesteading, as the Inspectors report absentee homesteaders, which leads to the cancellation of their entries and the opening of their lands to *bona fide* and profitable settlers ; and the knowledge that such officials are continually travelling through the country causes the settlers to reside on their lands more than they otherwise would. I am pleased to say that while productive of so much good, the service is practically self-supporting. In order to meet its cost the Department imposes a fee of \$10 on each cancelled quarter section upon re-entry for it being granted, in addition to the ordinary entry fees. This is in no way a hardship to the entrant, as the cancelled lands are usually in well settled districts, and are consequently more valuable than others. From this source a revenue of \$23,192 was derived during the year just closed ; the total expense of the inspection service during the same period having been \$14,469. The revenue during the past twelve months from this source is considerably larger than in any previous year (which is in consequence of the great increase in the number of homesteads this year, to which I have before referred) and these fees cannot all be credited to the service's operations last year, some of the lands having been vacant for perhaps two or three years. A fairer comparison will be obtained by averaging the cost of the service for a series of years and the revenue derived from it during the same

period. The following is a statement of the expenses of the service and the revenue from inspection fees in each complete year of my tenure of office:—

Year.	Cost.			Revenue derived from Inspection Fees.
	Salaries.	Travelling Expenses.	Total.	
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1886.....	7,200 00	4,886 00	12,086 00	6,540 00
1887.....	7,200 00	5,737 00	12,937 00	7,710 00
1888.....	8,521 71	7,799 00	16,320 71	13,615 00
1889.....	8,794 00	5,675 00	14,469 00	23,192 00
Totals.....	31,715 71	24,097 00	55,812 71	51,057 00

During the period in question, you will notice, the cost of the service has been almost entirely met from these fees, the excess of expenditure being \$4,755.71, or an average of only \$1,188.93 a year. During the same time \$11,361 has been realized from forfeited improvements on cancelled lands, which, though it perhaps cannot properly be put to the credit of the Inspection Service, is in a great measure the result of its work. In order that the service might not be in any way a burden on the public exchequer I recommended during the summer that a fee of \$2.50 should be charged for each application for patent taken before a Homestead Inspector, of which recommendation you approved. This system has been in force since about the 1st of September, and up to the present \$525 has been realized from these fees. The Inspection Service will hereafter, I think, be quite self-supporting. The fee in question has been paid willingly by the settlers, and when the convenience of making their application before an Inspector instead of having to go to the local agency for this purpose—as was necessary before Inspectors were authorized to take applications for patent—is taken into consideration, the imposition of this small sum seems perfectly reasonable.

Making application for patent before an Inspector is optional, however, and any settler who may object to paying the fee has the alternative of going before the local Agent, who will receive the application free. But no matter how near an agency a settler may reside, the cost of his going there with his witnesses is not likely in any case to be less than \$2.50.

#### *Management of Trust and other Funds.*

**Trust Account.**—An account is kept with the Merchants Bank, Winnipeg, in which are deposited the bond fees which are required to be deposited by persons who make application for cancellation of existing entries. Improvements paid for benefit of the former homesteader, when re-entry is granted for cancelled land, are also deposited in this account.

The balance on hand is \$19,309.18, and the interest earned on the balance of the account during the year is \$472.45, which has been deposited to credit of the Receiver-General.

The receipts during the year number 1,615, amounting to \$38,510.32, and the cheques issued for the same period number 1,193, amounting to \$28,827.62.

**Letter of Credit Account.**—The Letter of Credit Account, from which is defrayed the expenditure on account of Contingencies, Special Service, Intelligence and Land Guide Service, and Homestead Inspection Account, is kept with the Bank of Montreal, Ottawa, and 330 cheques have been issued thereon.

*Seed Grain Repayments.*

During the year just closed \$9,121.77 has been received in repayment of the seed grain advanced in the spring of 1887 to settlers in Assiniboia and on the North Branch of the Saskatchewan, making the total repayments up to the present date \$29,835.80. The 5,000 bushels of barley and oats which I referred to in my last report as being on hand at Prince Albert has been disposed of, the barley having been purchased by the Hudson's Bay Company, and the oats by the North-West Mounted Police.

In December last the collection of the mortgages given by the Red River settlers for seed grain relief supplied by the Government at the time of the grasshopper visitation in 1876, was imposed upon this office by the Department of Agriculture, and \$3,231.85 has been paid in since the matter has been under my control. In consequence of the length of time these mortgages have been in existence, and the fact that the properties affected by them have, in most cases, changed hands frequently, this work is of a very difficult and complicated nature, and has occupied a considerable amount of time.

*Manitoba University Lands.*

The selection of the land grant of 150,000 acres to which the University of Manitoba is entitled under section 2 of the Act 48-49 Vic., chap. 50, has been vigorously prosecuted during the year. As mentioned in my last annual report, about 250,000 acres of land were temporarily reserved, from which the University might make choice, subject to your approval, of the quantity to which it is entitled. The lands reserved have been examined by inspectors employed by the University, which has periodically furnished this office with lists of such as have been chosen. As such lists have been received, I have recommended the transfer to that body of the lands included therein. Up the present time 123,541.43 acres have been so recommended. The whole selection will shortly be completed. It has not been found practicable to restrict the University to not more than two sections in any township in every instance, as was proposed when the selection was commenced, but this arrangement has been adhered to as far as possible. Care has been exercised that too large a block should not be granted in any district, and every precaution to prevent the selection interfering with settlement has been taken.

*Crofter Settlement.*

A great deal of my time and attention has been occupied this year in connection with the settlement of the Crofters assisted to the North-West by the British Government's Colonization Board. At the request of the Imperial authorities and in accordance with your own desire I have supervised this year's settlement, and have given advice and assistance to the Colonization Board's agent. This has involved a considerable amount of trouble in the purchasing of supplies, in selecting a location for the settlers, and in arranging in other ways for their reception. I have had to counter-sign all cheques issued by the Board's officer, and to approve all orders given by him; a large correspondence on the subject has had to be conducted, and some travelling has been necessitated.

On the 3rd of April 49 Crofter families sailed from Glasgow. They reached Halifax (where they were met by an officer of the Department of Agriculture) on the 14th, and arrived in Winnipeg on the 20th, proceeding on the same day to Salt-coats, the terminus of the Manitoba and North-Western Railway, in the vicinity of which lands had been reserved for them. Preparation was originally made to locate the settlement in the neighborhood of Grenfell and Wolseley, on the line of the Canadian Pacific Railway, but upon its being discovered that pre-emptions had been promised the settlers before leaving Scotland it was found that there were not enough lands in that district to give them all pre-emptions and allow them to be settled within a reasonable distance of the railway, and in such a manner that the settlement could be conveniently supervised by the agent, who, in accordance with my recommendation, was appointed by the Colonization Board to reside among them

and furnish them with advice and practical assistance in farming matters. A change in the location had, therefore, at the last moment, to be made; for, although I did not think pre-emptions at all necessary to the settlers—as they will have quite enough to do to repay their advances without paying for pre-emptions—I considered it best, to avoid the possibility of complaint that promises had been broken, that they should have an opportunity of taking 320 acres each if they desired. The lands reserved were visited before the arrival of the Crofters by Sir Charles Tupper, a member of the Colonization Board, who approved of their quality and situation. They are well adapted for mixed farming, and are close to a railway and local market. The Colonization Board's agent was instructed to see that the settlers put as much land as possible under crop, obtained a sufficient supply of hay to carry their cattle through the winter, and erected their houses and put them in such a condition as to withstand the cold weather. I regret to say that owing to the dry season and, to some extent, to the dilatoriness of the people in breaking and seeding, the crops have not been very successful. Every effort has been used to procure employment for all those who can be spared from the settlement, and I trust that sufficient will be earned to carry the people through the winter without hardship. The settlement has since its establishment been visited by Mr. Colmer, the Colonization Board's secretary, who has expressed satisfaction with the measures taken by this Department to promote its success. There is no reason, I think, why the settlers should not, in a year or two, become fairly prosperous, if they exercise reasonable industry and prudence. I may say, though, that the amount the Act allows to be advanced to each homesteader—\$600—is hardly sufficient to start in a satisfactory manner a man with a large family, who has absolutely no means of his own to supplement it, especially when, in addition to that of his own family, the passage money of a relative or ward has to be paid therefrom. I also consider that it would greatly increase the chances of success of any future parties the Colonization Board may send out if the lands for them were selected a year in advance of their arrival, and a certain quantity of each homestead broken, so that the settlers might be in a position to obtain some substantial return from their lands the first year of their residence in the country.

In regard to the settlement established near Killarney in 1888, I may say that the people managed to pass last winter satisfactorily, no cases of severe hardship having occurred. In company with Mr. Scarth, M.P., I visited the settlement in January and arranged with the storekeepers in the neighborhood to give the people credit in cases where such was absolutely necessary. The crops of some of these settlers have been poor, but I am informed they are equal to the crops of older and more experienced settlers in the same district. It is reported to me that the heads of families are all in residence and at work on their homesteads; the unmarried settlers and the junior members of families who are able to work being nearly all away from the settlement earning wages.

#### *School Lands.*

There have been no large sales of School Lands during the past year, but what lands have been disposed of have been sold to advantage. There have been three sales in Manitoba. In December last Section 11, Township 10, Range 19 west, in close proximity to the town site of Brandon, was offered at auction; 293.16 acres were disposed of, part in villa lots and the remainder in a block of 160 acres. The total price realized was \$7,238.34, an average of \$24.70 an acre. In the same month the School Section at Rapid City (29-13-19 west) was put up for sale, the north half by quarter sections and the south half in 147 town lots. The north east quarter was sold for \$1,326, *i.e.*, at \$8.50 an acre, and 55 town lots were bought for \$2,598, an average price of \$47.23 per lot. In June last, 20 acres of Section 11, Township 15, Range 18 west, near Minnedosa, were sold for \$400, or at \$20 an acre. In the North-West Territories the sales and the prices realized have been as follows:—

515-92 acres of Section 11, Township 14, Range 1 west of 5th Meridian, near Calgary, were sold for \$8,265.36, or about \$16.02 per acre; and that part of the south east quarter of Section 11, Township 22, Range 29 west of the 4th Meridian,

south of Bow River, containing 63·80 acres, was sold for \$414·70, or \$6·50 per acre. These sales were made by auction at Calgary in July last.

A large number of applications for the purchase of School Lands have been filed, and the advisability of holding further sales this winter is now being considered. During the past year a system of examination of School Lands has been inaugurated, which, I believe, will prove very helpful to the Department in dealing with them. Previously, there was no very satisfactory means of ascertaining the character, quality and value of the lands, and consequently some difficulty was experienced in deciding whether or not it would be in the interest of the education fund to offer them for sale, and in placing an upset price on them when a sale had been determined upon. Now, when any enquiry is made respecting any School Section, or any portion thereof, the land in question is placed on a list and is, as soon as possible, visited and reported upon by an Inspector. His report contains a full description of the property and all information necessary to enable the Department to correctly appraise its value and to decide whether it is advisable to offer it at the next sale. One regular Inspector has been employed in this work; but, in order to complete, before the inspection season expires, the examination of all lands respecting which applications have been received, two Forest Rangers have been detailed to temporarily assist him. The number of reports received from these examiners up to the present in 1922. It is intended to have all the sections in the settled part of the country inspected in this manner. The system at present applies only to Manitoba; it will be extended to the North-West Territories as soon as the lands there come into demand.

The Inspector's reports show that squatting on and cultivation of School Lands are still being carried on very extensively, though the public is now well aware that these are illegal practices. The offenders, relying on the fact that in the past lands have been sold subject to payment for improvements, hope that consideration will be shown them when the lands are disposed of. I would recommend that School Lands be sold in future entirely irrespective of any "improvements" on them. Most of the School Lands thus taken possession of are near centres of population, and a very large number of those illegally cultivating them do not live on them, but reside in towns or villages or on neighboring farms. If the land they get the free use of belonged to private owners they would have to pay rent for it, in many cases quite a heavy rent, and they would also have to pay municipal taxes, which they now avoid, as taxes cannot be levied on undisposed of School Lands, and consequently the municipalities are deprived of revenue that they would otherwise receive. The "improvements" detract from the value of the land rather than enhance it. The cultivation in many instances is done in such a manner as to take everything possible from the soil without making any return to it; and, if after cultivation for some time the cultivator ceases to use it, the land grows up with weeds and becomes of much less value than the virgin prairie. It has been found, too, that the squatters combine at the sales to prevent the lands being sold, either by threatening to run up the price, by exaggerating to the intended purchaser the amount of improvements on the land and their value, or by boasting of the trouble they will put a purchaser to before they will let him obtain possession. Not only do I, therefore, recommend that "improvements" be not recognized, but I am also of opinion that proceedings should be taken against those who are found by the Inspector to be pursuing these illegal practices. I may point out that in the Nebraska school law there is the following provision: "If any person shall commit, waste or trespass or other injury upon any of the lands herein referred to (School Lands) the person so offending shall, on conviction thereof, be fined a sum not less than twenty-five dollars nor exceeding one thousand dollars."

The area of surveyed School Lands in Manitoba is 897,563 acres; and the estimated area of those unsurveyed is 1,000,000 acres—making a total area of about 1,897,563 acres. Up to the present 21,717 acres have been sold (exclusive of the Rapid City town lots), the sum realized being \$158,620, or an average price of nearly \$7·30 an acre. The surveyed School Land area in the Territories is 2,890,469·38 acres. Of

the unsurveyed area there, it is impossible to make anything like an accurate estimate. The quantity sold is 1829.88 acres, and the total amount realized \$46,541.97, an average price of \$25 43 an acre. The high average price realized is, I think, an evidence that the Dominion Government is faithfully administering the trust it imposed upon itself when it reserved lands in Manitoba and the North-West Territories for educational purposes. Appended to this report is a memorandum containing all the particulars I have been able to obtain respecting the management of School Lands in the United States, and the results achieved by the various State Governments. From this it will be seen that the prices realized in Manitoba and the North-West are much larger than those at which School Lands are sold by a great majority of the State Governments. In a large number of States very poor results have been accomplished; the lands having apparently been given away for a mere trifle. It has been urged that the School Lands in Manitoba should be administered by the Provincial Government. The average results of local administration in the States are not, however, so brilliant as to warrant the supposition that a change to that system in Manitoba would prove advantageous to the interests of education; on the contrary, they indicate that a change from the present mode of administration in that direction would probably be detrimental to those interests.

#### *Pre-emptions.*

The privilege of taking pre-emptions adjacent to their homesteads, when making entry for the latter, was first accorded to settlers in 1874. The Land Act of 1883 provided that this privilege should be discontinued after the 1st of January, 1885. In 1886 the Act was amended in this particular, extending the time within which pre-emptions might be obtained to January, 1887, and by the amendments of 1886 this privilege was further extended till the 1st January, 1890. There has been no subsequent legislation in this regard, and pre-emption entries will not therefore be granted after the end of this calendar year.

There is no doubt that the pre-emption system served a good purpose at the time it was introduced. At that date all the public lands, whether odd or even numbered sections, were open to homestead entry, so that if a man were not in a position to purchase extra land when entering for his homestead, it was altogether likely all the land which was desirable in his neighborhood would be settled on by other homesteaders before he would have earned enough to buy any, and he would thus be prevented from making provision for the cultivation of more than 160 acres should he ever be in a position to so extensively engage in agricultural operations, or from acquiring land near his own for the use of his children. Some provision in the regulations which would give a settler the right to purchase within a certain period from date of settlement an additional quantity of land adjacent to his homestead at a reasonable price was, therefore, desirable and necessary. But the need for such a provision is not now so great, as, every alternate section being reserved from homesteading, the settler desiring to increase the area of his farm can generally buy land near his homestead on easy terms of payment, either from the Government or from the railway companies to whom odd sections have been granted as subsidy. Though in some ways it has been advantageous, there have been several objectionable features in connection with the pre-emption system. One is, that it has served to scatter settlement. Many settlers, with little prospect at the time of making homestead entry of being able in three years to purchase an additional 160 acres, have taken pre-emption entries on the chance either that they may be able to pay for them eventually, or that, in consequence of the construction of railways or the increase of settlement in their neighborhood, they may be able to dispose of their right to others, when they have obtained homestead patent, to good advantage. The entry fee is but ten dollars, which is not much loss if the pre-emption has to be given up, but may result in a good return if the speculation is successful. In the mean time, the pre-emption quarter section is locked up and lying useless, and settlers who, if it were vacant, would gladly homestead it, are forced into districts more remote from railways and settlements, while the localities in which the specu-

lative pre-emptions are held are sustaining nothing like their full complement of population. Another objection is this: A settler having taken up a pre-emption is perhaps not able to pay for it when the necessity for doing so arrives, but at the same time, hoping he will shortly be able to do so, does not care to relinquish it. In many cases he mortgages his homestead after having got his patent, in order to help pay for his pre-emption. He thus burdens himself with debt in order to pay for land which, in a large number of instances, he is not cultivating, and which is of very little practical use to him. Sometimes he can manage to extricate himself from the liabilities he thus assumes, but it unfortunately only too often happens that he sinks under their pressure and, in the end, loses both homestead and pre-emption. I am glad to notice, however, that the settlers themselves are realizing that it is not advisable to take up too much land at first, and that it is better to rely upon purchasing odd numbered sections at some future date, if a larger farm is then found to be required, than to encumber themselves with pre-emptions before they really require or can afford them. This is shown by the gradual falling off during recent years in the number of pre-emption entries granted as compared with the homesteads taken up. In 1882, 76 per cent. of those homesteading entered also for pre-emptions; in 1883, 68 per cent. of the homesteaders pre-empted; in 1884, 73 per cent.; in 1885, 35 per cent.; in 1886, 39 per cent.; in 1887, 28 per cent.; in 1888, 17 per cent. In the year just closed 30 per cent. of the homesteaders took pre-emptions, the increase over the previous year being doubtless accounted for by the fact that the time for withdrawal of the pre-emption privilege is so close at hand, and perhaps because there may have been a larger number of well-to-do settlers among last season's immigrants than in the former year.

In view of this decreased demand, I do not think that the abolition of the pre-emption system will be a matter of much, if any, regret. In order, however, that those homesteaders who really require and can afford to farm more than 160 acres may not by chance be deprived of the opportunity of doing so, and that the Government may not entirely lose the revenue which has hitherto been derived from pre-emption sales, I would suggest the advisability of allowing a homesteader to purchase land adjacent to his homestead when entering for it, payable one-fourth in cash and the balance in three annual instalments, with interest on the unpaid principal at 6 per cent. A settler would not be likely to take up land on these terms for speculative purposes, as the first cash payment and the annual interest would be more than he could afford to lose if the speculation should be a failure. These sales, I think, would only be taken advantage of by farmers really needing the land, with some capital at their disposal when homesteading, and having a fair prospect of completing their purchases. A large quantity of land in the hands of such settlers would be in no way a disadvantage, but a positive benefit in many respects to the country.

As mentioned in my last annual report, a circular was sent out in 1888, calling upon persons in default in the payment of their pre-emptions to complete their purchases within a given period or their entries would be cancelled, unless they furnished within the period allowed satisfactory reasons for non-payment, and showed that they were residing on and cultivating their homesteads in a *bonâ fide* manner, in which cases a reasonable extension would be granted; the object of this circular being to open to homestead settlement, under sub-clause 5, clause 38, of the Dominion Lands Act, all pre-emptions which were being held by speculative homesteaders, with no benefit to the holders and with great detriment to the country. At a conference held in Ottawa, in February, between yourself and the Senators and Members of Parliament from Manitoba and the North-West Territories, and at which the Deputy Minister and myself were present, it was represented that many *bonâ fide* settlers whose entries it would be a great hardship to cancel had failed to make application for extension of time for their pre-emption payments. In consequence of these representations you authorized the issue of instructions to the local Agents ordering them to discontinue the cancellation of pre-emption entries until the 1st of January next, except upon applications from intending settlers who wished to enter for pre-emptions as homesteads under sub-clause 5, clause 38, of the Dominion Lands

Act. The number of pre-emption entries cancelled this year has, therefore, been small.

*Amendments to the Dominion Lands Act.*

The amendments made to the Dominion Lands Act at the last Session of Parliament appear to have worked well. That relating to transfers made before issue of patent has quieted a number of titles, and that relating to liens for advances made to assist immigrants to the North-West and to start them on farms has removed many difficulties in the way of the successful working of this useful plan of colonization.

*Crops.*

Last season's crops in Manitoba and the North-West Territories were not so successful as might have been wished, owing chiefly to the dry weather which prevailed during the growing period. In Manitoba about a million acres are stated to have been prepared for seeding last spring, a considerably larger acreage than in the previous year; the acreage devoted to the principal crops being as follows: Wheat, 623,245 acres; oats, 218,744 acres; barley, 80,238 acres; flax, 13,333 acres; potatoes, 11,941 acres; other roots, 4,075 acres. Seeding was general throughout the Province about the 1st of April, but the weather was cool, and not favorable to rapid growth. At an early date the ground became very dry and, high winds prevailing, the seed in many places was uncovered, and in some cases blown away. The month of June was particularly dry, the rainfall during it being less than three quarters of an inch throughout the Province. A few showers at the commencement of July remedied the evil to some extent, and caused hopes that the damage would not be so serious as at first anticipated, but experience has shown that in many places the drought had affected the crops too seriously for recovery. The weather during the harvesting season was favorable. It is yet too early to give any reliable statement as to the quantity of the crop. It is estimated by the Provincial Department of Agriculture, from the returns of its crop correspondents, that the average yield per acre for the Province will be as follows: Wheat, 12·4 bushels; oats, 16·8 bushels; barley 13·6 bushels; peas, 8·1 bushels; potatoes, 119 bushels. It is difficult to arrive at a general estimate, however, as the crops have varied so in different localities. In the County of Souris River, for instance, the yield per acre is reported as follows: Wheat, 3·9 bushels; oats, 4·2 bushels; barley, 3·2 bushels; potatoes, 62 bushels; while for the County of Westbourne it is given as: Wheat, 23·4 bushels; oats, 22·5 bushels; barley, 24·0 bushels; potatoes, 225 bushels. The crops seen to have done best in the north-western part of the Province and worst in the south-western portion. The average crop yield per acre in the Province for the year 1887, the last year for which statistics were taken, was: Wheat, 27·9 bushels; oats, 46·2 bushels; barley, 36·3 bushels. The average for the period 1883-7 has been: Wheat, 20·6 bushels; oats, 33·7 bushels; barley, 25·8 bushels; potatoes, 205 bushels. If the Local Government figures are correct the aggregate yields of this year's crops are: Wheat, 7,201,519 bushels; oats, 3,415,104 bushels; barley, 1,051,551 bushels; and potatoes, 1,393,385 bushels. Of this, some 5,000,000 bushels of wheat will probably be exported. The quality of the grain this year is excellent, and up to the present the prices paid have been fairly good. The hay crop has been light, the average yield for the Province being reported as 1·10 tons per acre.

I have no data on which to base an estimate as to the quantity of the crop in the Territories, no statistics having been collected, and the yield having been so different in some localities from what it was in others makes it impossible to give even an approximate idea of the average. On some farms very good results seem to have been attained, while on others indifferent returns have been secured.

In addition to the damage caused by drought, the crops suffered considerably from the ravages of gophers, which were more numerous and troublesome than for some years past. This, however, is indirectly attributable to the drought, as the dry season was particularly favorable to their rapid propagation, and, by depriving



them of other succulent food, caused them to rely almost entirely upon the young ears of grain for their subsistence during the early part of the summer. Undoubtedly some steps should be taken for the destruction of this pest before it becomes too formidable; otherwise there is a probability of its developing into as great an evil as the rabbit pest in Australia. This would seem to be a matter for municipal or local government action.

#### *General Condition of the Country.*

In spite of the short crops, the condition of the country is satisfactory. Settlers do not appear to have lost confidence; a considerable quantity of new land has been broken, and a larger area than that of last spring will, I have reason to think, be seeded next season. In consequence of cattle and poultry raising and dairying operations being annually more extensively gone into by farmers, the effects of an unfavorable season are not quite so severely felt as formerly, when grain growing used almost entirely to be depended upon. From what I can learn, business is steadily improving, and should the next crop be a bountiful, or even an average one, the progress of the North-West will not be materially hindered by this year's experience. It is to be borne in mind that the drought was not confined to the Canadian North-West, but was general throughout the whole western portion of the continent, and that in regard to crops and the general condition of the people the country north of the 49th parallel compares favorably with that to the south of it.

#### *Railway Construction.*

An indication of the confidence felt in the country by capitalists is the extent to which railway construction has been prosecuted during the year, and the preparations which are being made by the various railway companies to undertake even more extensive work in this direction next season. The advantages of this activity to the settlers and the country generally are obvious; the construction work affords employment and causes circulation of capital, and the new lines not only provide greater transport facilities in well occupied neighborhoods, but open new districts to settlement.

The Canadian Pacific Railway Company has had 56 miles graded and 4½ miles of track laid in connection with its Souris Branch, which will run from the neighborhood of Brandon to near Melita, and has built a 6 miles extension of its Barnsley Branch from Barnsley to Carman. A considerable further amount of track-laying will be done by the company before winter sets in, and work will be energetically proceeded with in the spring.

On the Regina, Long Lake and Saskatchewan Railway, 130 miles have been graded and 40 miles of track laid, the grading being finished to within 9 miles of Saskatoon.

The North Pacific and Manitoba Railway Company has laid, so far, during the present year, 160 miles of road, and expects to lay 25 more miles this season. The General Manager informs me that although it is not decided what will be done in construction work next year, the company will, in all probability, build 150 miles at least.

The Great North-West Central Railway intends to complete its first 50 miles this season. I am informed the whole of that length is graded, bridges have been built for nearly 40 miles, the first station is nearly completed, and 22 miles of track has been laid. Rolling stock has been shipped from the east, and the company contemplates building next year another 50 miles.

The Manitoba and North-Western Railway has done 15 miles of grading, and, I understand, will probably perform a considerable amount of construction work next season.

#### *Immigration.*

While I have at my disposal no complete and reliable figures as to the number of new settlers that have come to the North-West during the past season, there can

be no doubt the immigration has been in excess of that of recent years, and that generally speaking the immigrants have been of a very desirable class. The large number of homesteads entered for this year in comparison with previous years is, I think, a good indication in this regard. The "farmers' excursions" organized by the Canadian Pacific Railway Company have been very useful in attracting to this part of the Dominion substantial farmers from the eastern Provinces, who are almost sure to do well for themselves and to benefit the country. Another party of Scotch Crofters has been assisted out here by the British Government, to the settlement of which I have elsewhere referred. There has been a considerable influx of foreigners. The existing foreign colonies have been increased, and a new colony, of Germans, has been established. It is in the neighborhood of Dunmore, and consists of some 170 families; its prospects of success, I am told, are excellent. Several Russian families have been amongst this year's arrivals.

The Mormon colony at Lee's Creek, Alberta, has, I am informed by Mr. Eliot Galt, of the North-West Coal and Navigation Company, been increased, there having been some 150 new arrivals. There is likely to be a considerable influx from Utah next year. Mr. Woodroff, one of the Mormon leaders, has visited the country during the year, and 58,000 acres have been bought from the North-West Coal and Navigation Company, on which it is proposed to settle some 350 families in the near future. I am told by Mr. Galt that this colony has made great progress, a large amount of building and fencing having been performed. The people are engaged in dairy farming, freighting, etc., and are prosperous and contented. Mr. Galt states they appear to perfectly understand that it will be impossible for them to practice polygamy in Canada. He says that from his own knowledge those already here are observing the law in this respect. Having had a great deal to do with these people in business matters, and being resident in their neighborhood, Mr. Galt is in a position to speak with authority on this point. I have obtained similar information from other sources through which I have made enquiry in this regard.

#### *Land Sales by Railway and Land Companies.*

The fact that the sales made by the large land corporations during the past season have been much larger and at better prices than during the previous year is evidence of an increased immigration and of the progress of the country. The Canadian Pacific and Manitoba South-Western Railway Companies' sales this year have been 191,856.99 acres, at \$719,879.15, as compared with 162,272.60, at \$553,911.17 in 1888; and this year's sales have almost all been made in small areas to settlers, whereas the 1888 sales included several large blocks to capitalists. The North-Western Coal and Navigation Company has sold 98,000 acres, as compared with 10,000 acres in 1888 and 26,000 acres in 1887, at an average price of about \$2 an acre. The Hudson's Bay Company's land sales, I am informed, have been larger than in 1888, and at better prices. The Canada North-West Land Company reports that its town lot and agricultural land sales have been considerably in excess of those of last year, and the Manitoba and North-Western Railway Company states that this season's operations have been satisfactory. I have reason to think that the experience of other companies and individual land owners has been of a similar nature.

#### *Hay Lands.*

As mentioned in the paragraph of this report relating to last season's crops, the recent hay harvest has been a very light one. Lands which formerly have produced good yields have this year been almost useless for hay purposes. This deterioration is caused to some extent by the gradual drying up of the country of late years, and the drought prevailing during the early part of last summer. But there is another cause which has operated to destroy the Government hay lands. Settlers, in order to make sure of securing the quantity they have obtained a permit to cut, commence haying operations at an early date, lest their neighbors should forestall them. It thus happens that the grass is often cut before the seed has had time to mature and become distributed. Deprived of this natural means of replenishment, the hay

swamps, especially in dry seasons, soon become exhausted. In order to remedy this the Government, when issuing hay permits last spring, granted them subject to the condition that the hay should not be cut before the 20th July, by which time it was estimated the seed would have ripened and fallen. This, I may remark, is a return to the custom of the country before its transfer to the Dominion Government, the Council of Assiniboia having had a law to the effect that if any settler cut hay upon common lands before the 1st of August, or some day proclaimed by the Council according to the earliness or lateness of the season, he should forfeit the same or the value thereof. In its efforts to conserve a product of such value to the country as is the natural hay supply, the Government might fairly have counted upon the hearty co-operation of the settlers, for whose future benefit this protective measure was chiefly designed. I am sorry to say, however, that in many cases individual cupidity seems to have been stronger than considerations of public interest, and a number of settlers commenced cutting before the prescribed date. When steps were taken to forfeit the hay thus illegally cut, complaints of course arose of harshness on the part of the Government.

I am inclined to think that the best policy for the Government to pursue in its own and the North-West's interest is to dispose of what hay lands remain in its possession in settled districts as soon as possible. Under present circumstances the expense and trouble of issuing permits is altogether out of proportion to the revenue derived from them. The difficulty in the way of enforcing protection regulations in districts where hay is scarce and where, of course, such measures are most required, is also very great; a close watch is required to be kept to detect violations, and when steps are taken to punish the offenders the Department cannot fail to incur odium and attacks, stirred up and promoted by the offenders. By selling the hay lands a considerable revenue would be derived, as hay is now in such demand, and the trouble and expense of administering these lands would be avoided. The hay supply would, I think, be very much more efficiently preserved if these lands were in the hands of private persons, as it would be in the owners' interests to prevent waste and exhaustion, and this, for obvious reasons, they would be very much better able to do than the Department. By adopting this course I do not think the Government could be accused of shirking a public duty as, if my view is correct, the hay supply will be better protected than at present; and I question whether it is the duty of the Government to provide practically free hay for any but homesteaders who have not earned their patents, the interests of which class of the community can still be protected by the Government retaining the hay lands, or a reasonable quantity of them, in districts where any considerable number of homesteads remain unpatented.

If my ideas meet with your approval I would suggest that a certain proportion of these lands be offered for sale at public auction before the next haying season arrives.

#### *Timber Supply and Forest Culture.*

I would direct your particular attention to the remarks of Mr. Crown Timber Agent Stephenson with regard to the rate of consumption of the timber of the North-West. They show how rapidly the already small accessible forest area of the country is being diminished, and present for solution a problem of the highest importance to the prairie region and the Dominion at large. The deforesting of countries having an abundant supply of timber, and where there is no rapid increase of population, is a serious matter; but when the timber supply of a country is scarcely sufficient for its present requirements, and that country is annually augmenting the number of its inhabitants in an abnormal degree, an extensive and annually increasing diminution of its wooded area is a question of supreme moment and a cause of the gravest alarm. I need not enlarge to any extent upon the serious consequences which must result to the North-West if this state of affairs continues, nor present an array of arguments to demonstrate the vital necessity of some steps being taken to check the loss which is being sustained and the pressing duty of devising measures for creating new sources of supply in order to repair the evil already

done. These considerations are so obvious that they cannot fail to present themselves involuntarily to the mind of anyone acquainted with North-West matters. In a country of such long and severe winters as this an adequate supply of fuel, obtainable without excessive cost, is absolutely indispensable. Unless this can be assured, the value of North-West as a field for settlement, however fertile may be its prairies and however exuberant its crops, will be seriously affected. Fortunately, there appear to be coal deposits of considerable extent in various parts of it, and this in some degree compensates for its lack of timber; but coal can never altogether take the place of wood with the agricultural population, for, besides being their main article of fuel, wood is depended upon almost entirely by the settlers as a building material, and is largely used for fencing purposes. Its value in these respects alone is therefore sufficient to justify strenuous efforts to preserve and increase the quantity now in the country. But besides these very practical and patent considerations, other reasons for the preservation and multiplication of forests—more theoretical but of scarcely less importance, if valid—are advanced by many competent authorities on forestry: It is claimed that deforestation produces important climatic changes. In the deforested area, it is said, extremes of temperature are aggravated, and the average moisture of the air is lowered; the neighboring country loses the protection from cold and drying winds which the mechanical action of the forest as a wind-break affords; evaporation from the soil is augmented and accelerated and, the volume of streams, rivers and lakes is diminished. These unfavorable results are stated to be most marked and serious in countries at a considerable distance from the sea or other large bodies of water, and especially where they are separated from stretches of water by high mountain ranges, which interfere to prevent the passage of moisture-laden winds. An increase in a country's forest area is, contrariwise, claimed to exert an opposite influence—to modify temperature, to decrease cold winds in winter and scorching blasts in summer, and to increase the rainfall. These theories as to the climatic and hydrologic influences of forests may or may not be correct. It is a fact that in the North-West, and more particularly in the settled portions, the country has of recent years dried up very considerably—sloughs and marshes are fast disappearing, rivers once navigable are now so low as to render traffic upon them impossible, and damage to crops by drought is becoming frequent; but whether this is in consequence of the rapid consumption and destruction of timber, or results from other causes, I am not in a position to say. Though sufficient definite data have not been obtained to absolutely confirm them, these theories are worthy of notice when considering this subject. If they be correct they add tremendous force to the arguments for forest preservation and multiplication in the North-West, but even if they be chimerical the plain practical considerations of fuel and building material, as I have before said, are of quite sufficient weight to bespeak for this matter the most serious and intelligent regard.

I have the honor to be, Sir,

Your obedient servant,

H. H. SMITH,

*Commissioner of Dominion Lands.*

## APPENDIX TO DOMINION LANDS COMMISSIONER'S REPORT.

MEMORANDUM containing such information as can be obtained respecting the methods of administering Educational Lands in the United States, and the results such have achieved (referred to the Report of the Commission of Dominion Lands, page 12.)

*Oregon.*—Almost all the school lands in this State have been disposed of. The total school fund is \$1,756,700.90. Lands are sold at \$1.25 an acre, in quantities of not more than 320 acres to one person.

*Mississippi.*—The fee simple of school lands in this State is never parted with. They are leased for periods of 99 years or less, and are administered by the county authorities. No figures are obtainable to show the financial results of this system.

*Louisiana.*—The total school land grant to Louisiana amounted to 1,024,000 acres. It is not possible to ascertain how large a quantity has been sold. The capital already realized is \$1,300,000. The School Boards lease the lands in their respective districts for a year at a time on what appears to them to be the most advantageous terms. Lands are sold to the highest bidder on a day set apart for the sale, after the sense of the people in the township where the lands are situated has been taken to ascertain whether they desire them sold or not.

*Texas.*—The total school land area is 40,000,000 acres. Of this, about 10,000,000 acres have been sold. The lands are sold to actual settlers in quantities of not less than 80 nor more than 2,560 acres, at a price not less than \$2.00 an acre. The prices realized have ranged from that figure to \$5.00 an acre. The terms of sale are:—One-fortieth cash at time of purchase; the balance in yearly instalments, with interest on unpaid principal at 5 per cent. The purchaser has the privilege of paying up in full in seven years. The lands are also leased, the annual rental being 4 cents an acre and the leases extending for periods of four and five years. The area under lease is 6,427,966 acres.

*Florida.*—The school grant to this State consisted of 908,503 acres, of which all but 439,411 have been disposed of. The total fund is \$561,984.25; the prices at which sales have been ranging, from \$1.25 to \$8.00 an acre. The terms of sale are usually cash, three years time being allowed to actual settlers.

*Illinois.*—Total school grant was 1,000,000 acres, of which but 7,600 acres remain in the State's possession. The amount realized has been \$5,049,784. Local school authorities may lease the lands in their respective districts for periods not longer than five years. The rental goes to benefit the township school fund. Upon petition of two-thirds of the voters in any township the school land therein is offered for sale. Sales are at auction to the highest bidder, and the terms of purchase are cash at time of sale. The upset price for the land is fixed by the county authorities.

*Minnesota* received a total school land grant of 3,000,000 acres, 1,231,293 of which have been sold. The sum of \$7,177,790 has been received for them, the average price being a little over \$5.96 per acre. Sales are at auction, and the lands cannot be disposed of for less than \$5.00 an acre. The terms of sale are, 15 per cent. of the purchase money at time of sale, the balance being spread over thirty years, or it may be paid in full at any time at the purchaser's option. Timber is sold separately from the land, if hardwood. A considerable revenue is derived from pine lands, on which stumpage is charged.

*Wisconsin.*—The school lands in this State have all been sold, except 79,469 acres, at prices ranging from \$1.00 to \$1.25 an acre. Payments are made, 25 per cent. in cash at time of purchase; the balance in instalments covering ten years, and subject to interest at 7 per cent on the unpaid principal.

*Kansas.*—School lands in Kansas may not be sold for less than \$3.00 an acre. They are sold by auction upon petition of the residents in the school districts wherein they are situated. The terms of payment are one tenth cash, the balance

[PART I]

19

in twenty years, subject to interest at 6 per cent. Lands not sold when offered at auction may afterwards be disposed of by private sale.

*Missouri.*—All of the 1,250,000 acres of land granted Missouri have been sold, except 200,000 acres. They have been sold at from \$1.25 an acre upwards, the average price realized being \$2.50 an acre. The funds are under control of the county authorities.

*Nebraska.*—The school land grant comprises 2,884,398 acres. The State has deeded 162,051 acres and has under contract of sale 639,454 acres. There are 1,427,460 acres leased. The cash in hand from sales is \$2,100,744, and there is due the State, in unpaid principal, the sum of \$4,432,048. The principal derived from the sale of lands is placed in a permanent fund, and this fund invested in United States and registered county bonds. The funds derived from the interest on these bonds, the interest on unpaid balances on sales, and the lease rentals, go into a temporary fund, which is divided semi-annually to the school districts of the State in ratio of the per capita. The revenue derived from interest on sales for the year ending 30th November, 1888, was \$234,853, and the lease rentals for the same period amounted to \$153,276. Lands are sold by auction, and must not be disposed of for less than their appraised value, which must not be lower than \$7.00 an acre. The terms of sale are: one-tenth in cash; the balance in twenty years, with interest at 6 per cent. on unpaid principal. The land can, however, be paid for in full at any time, at the purchaser's option. Lands not disposed of at public sale are open for leasing, at an annual rental of 6 per cent. on their appraised value. Leases are for twenty-five years, with option of purchase before lease expires.

*Indiana.*—The school lands are under the control of the county authorities, and are sold at auction. When sales shall take place is decided by an election in the districts in which the lands supplied are situated. The price is not less than \$1.25 an acre, payable one-quarter cash and the balance in ten years. There have been 653,317 acres sold, for \$2,487,806. Lands may be leased for periods not exceeding seven years.

*Arkansas.*—School lands are sold on petition of people in district they are situated in at not less than \$1.25 an acre. Terms: one-quarter cash; balance in three years, interest at 8 per cent. Lands may be leased by the county authorities.

*Nevada.*—Lands are sold from \$1.25 to \$2.00 an acre.

*California.*—School lands are disposed of at \$1.25 an acre.

*Territories.*—The Territories of the United States do not obtain control of their school lands until they are admitted to Statehood. They are held in trust by the Federal Government, which does not, however, dispose of them, or take any steps to derive a revenue from them for the assistance of education in the Territories they are situated in. Congress has, though, passed legislation enabling the county authorities in Washington and Wyoming to lease the school lands lying in their respective counties, and to apply the revenue derived to local school purposes. The leases are not to be longer than five or six years.

## No. 2.

OFFICE OF THE SUPERINTENDENT OF MINES,  
CALGARY, 31st October, 1889.

H. H. SMITH, Esq.,  
Commissioner of Dominion Lands,  
Winnipeg, Man.

SIR,—I have the honor to report through you to the Hon. the Minister of the Interior on the work of my office for the year ending this date.

In November last my duties called me to Winnipeg, and in December I investigated some matters in the Porcupine Hills, west of Fort Macleod. In January I made an inspection of the farms of the Canadian Agricultural Coal and Colonization Company, and went to Ottawa. I returned in March, and until June was at Calgary the greater portion of the time, making certain inspections from there. In June I investigated certain land claims at Revelstoke, and since the 1st of July have been chiefly engaged on the inspection of the lands within the Canadian Pacific Railway grant which that company desires to reject. Outside of the last matter, reports have from time to time been prepared on all the subjects mentioned.

*Crops, &c.*

The rainfall during the past season taken throughout the whole of the North West Territories, has been very much less than in any other since the country has been opened for settlement, although, judging from certain indications, not more so than it was about one-fourth of a century ago. On the heavy clay lands, where the cultivation had, however, been thorough, very good crops of wheat were obtained this season, the quality "A 1" thereby demonstrating the success of that cereal in a large portion of our Territories during the most unfavorable seasons. Oats and barley generally were a light crop.

*Prairie Fires.*

During several years past in my reports this subject has been alluded to, and the experience of each succeeding season strongly emphasizes the opinion previously formed. In those districts where the rainfall is meagre, the grass crop is being greatly impoverished, and if preventive measures are not taken many portions of the country will become practically valueless. That these fires can be prevented, and at a moderate cost, has undoubtedly been already demonstrated.

*Irrigation.*

This matter is one concerning which action has been taken by the North-West Assembly, and reference made to a paper written by the undersigned and read before the Association of Dominion Land Surveyors at their annual meeting in February last. After another season's experience I do not wish to modify the views therein expressed concerning the importance of the subject.

*Stock Interests.*

The past winter was all that could be desired for range stock; there were few or no spring snow-storms, so that the loss of very young calves from that cause was practically *nil*; the pasturage being good the stock came out in the spring nearly fit for the butcher. This fact no doubt contributed largely to the prevalence of anthrax in some localities. It is frequently contended by horse raisers that considerable snow is a benefit, preventing worms caused by eating dry grass, the snow mixed with it causing better digestion. Some cattle men asserted that there were a number of

deaths among the range cattle at calving, this mortality being attributed to costiveness, resulting from the absence of snow.

#### *Horse Breeding.*

A very large amount of capital is being invested in the importation of well bred stallions, also a considerable number of high class mares have been imported, so that in the near future one may confidently predict a large and valuable output in that class of stock.

#### *Sheep.*

The low price of wool has retarded this industry, which when prosecuted on a large scale does not appear to have been a highly paying enterprise; at the same time, in every case where a settler has not had more sheep than he could personally look after—that is, a flock of from 500 to 2,500—it has proved most profitable.

#### *Woollen Factories.*

Probably nothing would stimulate the sheep industry to the extent that the establishment of woollen factories would. There appears to be no reason why, in the near future, if not now, the clothing, bedding, &c., required in this country should not be made here. An experiment in this direction will be made shortly by the opening of a woollen factory a short distance from Calgary.

#### *Shipment of Live Stock to Great Britain.*

To many who are not acquainted with the subject it will probably be a matter of surprise that cattle and sheep can be successfully shipped alive from this point to Great Britain. It is only in those cases where the size was low, quality medium and handling bad, that the shipments can be called a failure; and if a horse suitable as a roadster or for carriage or cavalry purposes in Great Britain can be produced here (and there is no reason why this should not be done, but, on the other hand, every indication that these kinds of horses can be reared of a quality equalled in few localities and surpassed in none), then the breeder need have no fears that the cost and risks of transport will make the undertaking a hazardous one.

#### *Horse Fairs.*

The suggestion that horse fairs, to be held at some central place, say twice a year, should be established, seems an admirable one. These fairs would bring the dealer and breeder of horses readily and thoroughly together, and, if established at once, it is possible the transactions in connection with them would be considerable, and, within a short period, it is reasonable to anticipate, would assume large proportions.

#### *Reservations for Stock Watering and Shelter.*

During the past season several additional reservations for this purpose have been made chiefly in the newly surveyed townships. Many persons have imagined these reservations were intended solely for watering purposes, and have objected in a few cases to the selections; but when the explanation was offered that they were as requisite for shelter as for watering, the reservations have been acquiesced in, and, on the whole, the action of the Department has been well sustained by those conversant with the subject.

#### *Dairying.*

It is difficult to understand why more attention has not been paid to this branch of farming in the foot-hill country. Nature has endowed it lavishly in every respect, with succulent grasses, the best of spring water everywhere, a climate which nearly wholly prevents cows being pestered by flies, all that could be desired for curing and marketing dairy produce in the highest perfection, and a good market to the west for this kind of produce, which will rapidly grow, and to which this country has the



most convenient access. Scarcity of labor must be the chief reason why the development of this industry has been retarded, though the past year witnessed an increase of 100 per cent. over the preceding. For parties fitted for such an undertaking, there are on the North American continent few openings as good as this district affords, certainly there are none better.

#### *Poultry and Eggs.*

An industry that might be profitably conducted in connection with that of dairying is rearing poultry, both for the meat and also for the production of eggs. A visitor to the Pacific Coast portion of British Columbia is forcibly struck with the fact that large quantities of these products are imported from Oregon and California. As mining and other business developments proceed the demand will rapidly increase. The shipping to Japan, to China, and probably to South America and Australia, which is being rapidly developed, will also add largely to the demand for these, and also for first-class dairy products.

#### *Tree Culture.*

Considerable attention has been paid to this subject during the past year, and there has been urged on the Department of Agriculture the desirability of the establishment at some point in the south-western portion of the North-West Territories of a farm or garden for conducting experiments on this line. Failure in tree culture so far as tried seems to be owing not to the severity of the winters, nor to the droughts of the summers, but to the winds. Those in the winter known as "chinooks," which cause the sap to rise and the buds to swell, being followed by a lowering of the temperature (in some cases very rapid), prove destructive; and during the summer there are often high, dry, hot winds which blow continuously for several hours, and which seem to dry up the young trees. By planting in close clumps the native trees (cotton woods and others) which will grow, and among them those ornamental trees which are so much to be desired, these difficulties will probably be overcome, and in time it will be found what ones are best suited to the district.

#### *Tanneries, &c.*

In this report it may be well to direct attention to what has been said in my former reports as to the desirability of the establishment of tanneries, &c. It would occur to one who may not be familiar with the details of that business that as a commercial undertaking the prospects rank high. There must be now available, in the district tributary to the Canadian Pacific Railway in the North-West Territories west of Swift Current, at least 13,000 cow hides and 4,000 sheep-skins annually. And hemlock bark, or the extract therefrom, can be readily and economically obtained.

#### *Iron Ore and Establishment of Iron Industries.*

In the Bow River valley iron ores of several varieties, all of good quality and in large quantities, are to be met with in many places, in close proximity to coal of all grades, from first-class cooking to bituminous, semi-anthracite and anthracite proper; all the slags necessary are at hand or accessible by rail (many on the line, others only a short distance therefrom), and labor, if brought in considerable force, should be fairly cheap. Why then should there not be an iron industry? The conditions on the whole are much more favorable than at Pueblo, Col., at which point a large industry of this description has been established, which is growing year by year at a rapid rate.

#### *Petroleum.*

There has been considerable local excitement manifested on the east slope of the Rocky Mountains, north of the 49th parallel, respecting this mineral; but development will be required to enable one to estimate the value of the discovery. In this connection it is worthy of consideration whether it is not advisable in the

public interest that petroleum lands should be treated in the same way as coal lands: that is, sold outright at a fixed price per acre. The ordinary regulations requiring on each claim development equalling \$5 per acre per annum does not meet the case. To put down a test hole means an expenditure of several thousand dollars; anything less would be a mere waste of labor and money, and no one will go to that outlay unless a considerable area be secured.

*Diamond Drill and Prospecting Company.*

It would appear that the time is most opportune for the formation of a diamond drill company.

This scheme might partake of a double capacity. 1st—The putting down test holes for others at a rate per foot agreed upon. 2nd—When not so engaged, the making of tests by the company on its own account; the recompense in the latter case to be derived from obtaining the first right of purchase should the result of drilling render purchasing desirable.

*Natural Gas.*

At two points on the Canadian Pacific Railway line, viz., Langevin and Cassils, gas wells have been in existence for nearly six years; the flow has not preceptibly diminished though the wells were piped for water not gas. The probabilities are that if thorough tests were made, combined with correct piping, it would be found that gas exists in sufficient quantity for fuel and lighting purposes. The impetus which the establishment of this fact would give to the progress of the district would be great.

*Canadian Agricultural Coal and Colonization Company's Farms.*

In January last these farms were all inspected by me, and a detailed report was given of what had been accomplished. Since then there has been no falling off in the energy displayed in the management. Unfortunately the past summer proved very dry and the crops being nearly all on sod and spring ploughing the yield on the whole was a light one, but the result was still good enough to give grounds for strong hopes of future success to the management. In addition to the stock enumerated in my report of January last, some 18,000 sheep, imported from Oregon, were placed on the various farms last fall. In cattle, the output of beef probably counterbalanced the calf crop. In implements, however, there has been a very large increase. The following table shows approximately the area cultivated on each farm during the past season, and also the area intended to be cropped next spring.

	1889	1890
Balgonie.....	1,440	1,440
Rush Lake.....	586	1,262
Swift Current.....	627	1,362
Gull Lake.....	500	1,212
Crane Lake.....	565	1,292
Kincorth.....	490	1,250
Dunmore.....	577	1,475
Stair.....	500	1,328
Bantry.....	266	1,112
Namaka.....	600	1,591
Langdon.....	480	1,165
Total .....	<u>6,631</u>	<u>14,489</u>

Of the anticipated increase about fifty per cent. has been already broken.

*Coal Output.*

During the past season the two principal points in the North-West Territories at which coal has been mined and shipped are Lethbridge and Anthracite.

*Lethbridge.*—The North Western Coal and Navigation Company has at this point very considerably extended its operations by completing the shaft for hoisting, and making new galleries, levels or drifts, further switches, &c., so that, although the output for the past twelve months may not have increased very considerably over the year preceding, the company is now in a position to increase its output to probably 1,000 tons per diem, and in a short time to double that quantity should the demand increase to that extent. It is anticipated that there will be during next season railway connection to the south giving access to the reduction works at Great Falls, Helena, Butte and Anaconda in Montana, which will afford this company a large and profitable market for its coal.

*Anthracite.*—Mining at this point has not until recently been pushed with the energy with which it was formerly conducted, the hesitation being caused by negotiations which have been going on with a view to disposing of this property to a strong English company. These negotiations have not yet been completed, and the present owners have for the past three months been pushing as vigorously as possible new slopes and galleries, so that in a year the output can be worked up to 1,000 tons a day if necessary. In doing this the output of the mine has been greatly reduced temporarily, but in the near future it can be increased. The present proprietors have unlimited faith in this property, and even should the negotiations referred to fail, there is no doubt capital will be forthcoming to work the mine, and, in about one year, to quadruple its previous output. During the past season three new seams have been discovered at Anthracite, two of which, so far as one can judge from their present openings, are from five to seven feet in thickness and of first class quality. The third would appear to be thinner and possibly not of so good quality, but it has not been opened sufficiently for a correct idea to be formed.

*Stair.*—At Stair, near Medicine Hat, two companies are in existence. The old mine at Stair, originally known as the Woodworth, subsequently the Stair coal mine, has, within the past few months, passed into new hands, and mining and shipping coal has been in progress to some extent. Opposite this mine, on the south bank of the river (South Saskatchewan), a company, known as the Medicine Hat Coal Mining Company, has certain land on which, during the past season, a shaft was sunk to enable mining operations to be carried on. No mining of any appreciable extent has, however, been done, nor can it be done with profit till a branch line of railway, some six miles in length, is constructed, connecting this point with Medicine Hat. The construction of this switch or branch the company states will in the near future be proceeded with.

*Cochrane.*—The development or output at the mines here formerly owned by Messrs. Chaffey and Vaughan and also by Mr. T. B. Cochrane, has in the case of the former been *nil*, in that of the latter not appreciable. A company has been floated in England with, it is reported, a capital of about half a million dollars to purchase and develop the properties of the latter gentleman at Cochrane, which, besides mining property, represent also some lumbering interests. This company has now a mining engineer from England making examinations as to the most economical means of development, and also respecting the establishment of coking furnaces, it being anticipated that next season will see a demand for coke for smelters to the west.

*Canmore.*—Considerable development has taken place near this point during the past season, and the number of seams which have been brought to light and their dimensions border on the marvellous. One cannot realize it without a personal inspection, and if late reports are reliable the area of the coal basin in the Bow River west of the gap is very much greater than was heretofore supposed. The output has not been extensive; but sufficient explorations have been made to enable the proprietors to acquire a correct estimate of the quality, of the enormous quantity, and also of how to open out the works to the best advantage.

#### *Smelters.*

In my last report the establishment of a smelter at *Vancouver*, B.C., was alluded to. As gathered from reports in the press, the first run of ore unfortunately demon-

strated that a mistake had occurred. This has been followed by litigation, so that the works have heretofore lain idle. It is to be hoped they will shortly be placed in running order and become a source of revenue to the company and of advantage to the community. The mines at Field, B.C., claimed by the same company have also lain idle on account of the smelting operations having ceased.

At *Revelstoke* smelting works have been commenced; the sampling works in connection therewith are reported as ready to receive ore (in fact it is stated ore is being purchased), and it is expected next spring will see the smelting and reduction works in operation.

At *Golden* a company purposes starting next season, at least, a forty-ton smelter, some of the machinery being already purchased. With these in operation mining will no doubt receive an impetus which will require the re-duplication many times over of such establishments. That there is ore in large bodies is undoubted; there are, however, no "poor-man-diggings," nor yet those where the valuable mineral could be obtained by mere stamping, a process which requires the outlay of only a moderate amount of capital. Hence, without the establishment of smelters by corporations with a sufficient amount of capital to construct works on a scale so that ore can be handled and extracted at the minimum of cost and to purchase ores from the individual miner, nothing beyond the merest surface development or prospecting can be accomplished. It may be reasonably anticipated that with a demand for ores a more healthy tone among miners and prospectors will be attained, and the present process of taking up a claim and doing only enough development to conform with the regulations will give place to a vigorous and hearty effort to ascertain by practical experiment on a large scale whether a claim is valuable or the reverse.

I have the honor to be, Sir,

Your obedient servant,

WM. PEARCE,

*Superintendent of Mines.*

## No. 3.

DEPARTMENT OF THE INTERIOR,  
OFFICE OF THE INSPECTOR OF AGENCIES,  
WINNIPEG, 31st October, 1889.

H. H. SMITH, Esq.,  
Commissioner of Dominion Lands,  
Winnipeg, Man.

SIR,—I have the honor to submit, for the information of the Honorable the Minister of the Interior, the following report upon the general work of my office for the Departmental year ending this day.

Leaving Winnipeg on the 26th of November, 1888, I inspected the offices at Lethbridge, Calgary and Banff, and on the 9th of December I proceeded to New Westminster. After making an inspection of the Dominion Lands and Crown Timber Agencies at that point, I returned on the 18th of the same month to Calgary to complete some unfinished work. From Calgary I went to Regina, and after inspecting the Land Office there returned to Winnipeg. On the 28th of December I went to Brandon and inspected the Land Office at that place.

The office at Brandon was destroyed by fire on the night of the 13th of February, 1889; and on the following day I went there to secure new premises and to make arrangements for resuming business.

The fire destroyed the greater portion of the records, but, fortunately, most of the books were saved at considerable personal risk, by Mr. Sutherland, the Assistant Agent. The loss of the records caused much inconvenience, but the satisfactory condition in which the books were found permitted the business to be resumed within four days' time. Much credit for such a condition of affairs is due to the energy of Mr. Hiam and his assistants.

On the 18th of February, 1889, I proceeded by rail to Moosomin, and drove from that point to Carlyle to enquire into certain complaints respecting the conduct of the Agent for that district, the result of which visit was, at the time, reported to you. I, at the same time, made an inspection of the Agency, and returned to Winnipeg to resume charge of your office during your official visit to Ottawa.

On your return to Winnipeg I went to Deloraine and inspected the Agency there. Leaving Winnipeg on the 4th of April, I proceeded to Calgary, making inspections of the Dominion Lands Offices at Brandon and Regina, and the Land and Timber Offices at Calgary.

On the 21st of May, I left Winnipeg for Edmonton, going by rail to Calgary and thence across country.

At Edmonton inspections of the Land and Timber Offices were made, and upon their completion I went to Battleford by trail. After inspecting the Land Office there, I went on to Prince Albert and made inspections of the Land and Timber Offices for that district, and then proceeded across country to Qu'Appelle Station, reaching Winnipeg early in July.

Throughout this trip much fine land was noticed, and though the season was exceptionally dry, abundance of good water was found up to the time of leaving Prince Albert.

On the 10th of July I went from Winnipeg, and visited Minnedosa and Birtle, making inspections of the Land Offices at these places. After a stay at the Winnipeg Office, I visited Deloraine and inspected the office.

Early in August I visited Carlyle and inspected the Agency there.

In September I went to Ottawa on business connected with the Agencies, and upon my return to Winnipeg took charge of your office during your absence.

]PART I]

---

On the 4th of October I went to Carlyle to arrange for the transfer of the office from that point to Cannington, and to install Mr. E. C. Phipps, who was appointed to fill the vacancy caused by the resignation of Mr. McHugh.

On the 22nd of October I went to Deloraine, to ascertain the facts relating to certain charges made against the Land Agent and Homestead Inspector. The charges were discovered to be without foundation, and the person making them could not be found.

Inspections of the several Agencies have, as a rule, shown their affairs to be in a satisfactory condition. Reports of these inspections have from time to time been made through you for the information of the Honorable the Minister.

I enclose herewith a statement showing the work performed in the several Agencies during the Departmental year just closed.

When not otherwise engaged, matters pertaining to my duties as a member of the Land Board have fully occupied my time.

I have the honor to be, Sir,

• Your obedient servant,

J. M. GORDON,

*Inspector of Agencies.*

STATEMENT shewing work performed at the various Dominion Land Agencies, for Year ending 31st October, 1889.

Number of Agency.	Agency.	Letters.		Circulars.		Recommendations for Patent.						Entries Cancelled.			
		Re- ceived.	Sent.	Re- ceived.	Sent.	Free Homesteads.		Purchase after 12 months Residence.		Homesteads.	Pre-emptions.				
						Granted.	Refused.	Granted.	Refused.						
												No.	Acres.	No.	Acres.
1	Battleford.....	385	664	57	65	7	1,248.90	68	10,880	1	320	7	1,381.50	3	451.74
2	Birdle.....	2,924	2,933	62	885	150	24,000	7	1,120	1	160	128	20,480	104	16,640
3	Calgary.....	2,105	2,169	62	76	77	12,370.58	5	800	1	160	72	11,524.94	38	6,060
4	Coteau.....	984	1,171	53	483	43	7,520	5	800			67	10,720	51	8,160
5	Dufferin.....	1,606	1,654	39	483	56	8,720	2	309			38	6,080	6	960
6	Edmonton.....	751	970	58	57	26	4,261.67	2	309			11	1,760	7	1,120
7	Lethbridge.....	1,119	1,036	57	550	13	2,225	3	450			8	1,242	1	158.62
8	Little Saskatchewan.....	2,493	3,338	71	550	82	12,820	2	320			99	14,240	18	2,880
9	New Westminster.....	2,280	2,257	30	66	*66	9,509.50					100	15,357	25	3,895.25
10	Prince Albert.....	942	970	53	100	50	7,835	4	469			23	4,161	210	33,520
11	Qu'Appelle.....	6,780	6,607	55	599	229	36,320	35	5,600			292	47,560	210	33,520
12	Souris.....	6,360	6,463	41	36	367	56,920.57	52	8,138.67	1	320	108	26,880	178	28,400
13	Swift Current.....	336	299	36	36	3	480					4	640	1	160
14	Turtle Mountain.....	3,102	3,493	63	112	214	35,788.54	40	6,452.16			142	22,315.31	92	13,595.36
15	Touchwood.....	870	775	46	585	30	5,082.10	7	1,120	1	319.90	35	5,453.06	26	4,112
16	Winnipeg.....	5,192	3,736	535	1,828	232	35,924.64	18	2,886.92			143	22,179.01	69	12,047.13
Totals.....		38,229	38,535	1,328	4,734	1,645	261,026.50	243	38,545.75	4	119.90	1,337	211,973.82	829	132,160.10

\* Homesteads at \$1 per acre.

## STATEMENT shewing work performed at the various Dominion Land Agencies, for Year ending 31st October, 1889—Continued.

30

Homestead and Pre-emption Entries Granted.																		
Number of Agency.	Hay Permits Issued.	Wood Lots.	Cancelled Lands Re-entered.													Abandoned Pre- emptions Homesteaded.	Total Homesteads.	
			Lands not Previously Entered.				Homesteads, 160 acres.				Pre-emptions, 160 acres.		Homesteads, 80 acres.		Pre-emptions, 80 acres.			
			Homesteads.		Pre-emptions.		Homesteads, 160 acres.		Pre-emptions, 160 acres.		Homesteads, 80 acres.		Pre-emptions, 80 acres.					
			No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.			Acres.
1	62	...	15	2,389.50	6	889.74	2	320	1	160	...	...	...	...	17	2,709.50		
2	201	...	87	13,707.63	20	2,907.17	128	20,465.02	19	3,040	...	...	...	...	290	46,076.14		
3	82	...	185	29,235.75	131	20,791.66	77	12,275.54	36	5,760	1	80	...	...	265	41,911.29		
4	30	...	163	26,080	128	20,480	62	9,920	28	4,480	...	...	...	...	250	40,000.00		
5	35	4	14	2,240	4	640	46	7,360	...	...	...	...	...	...	80	12,800		
6	85	...	72	11,409.38	38	5,681.50	4	640	2	320	...	...	...	...	77	12,209.38		
7	63	...	155	24,745.19	36	5,004.26	4	640	1	160	...	...	...	...	154	25,385.19		
8	257	...	196	31,016.37	98	15,364.62	133	21,050.33	9	1,440	...	...	...	...	355	56,510.18		
9	10	...	342	51,014.01	...	...	89	13,446	...	...	...	...	...	...	6431	64,460.01		
10	50	...	55	8,212.55	12	1,800	14	2,240	13	2,078.80	...	...	...	...	14	...		
11	167	...	251	40,123.90	119	18,672.95	388	62,080.49	201	32,160	Re-instatements.	...	...	...	58	10,883.80		
12	173	...	319	50,919.47	110	17,323.55	261	41,705.60	70	10,968.53	1	160	3	320	167	26,640		
13	32	...	13	2,074.08	5	800	2	320	...	...	...	...	...	...	125	19,993.35		
14	...	...	159	25,338.42	126	20,163.84	147	23,745.26	80	12,630.16	...	...	...	...	15	2,384.03		
15	100	...	82	13,059.29	21	3,165.90	6	1,119.44	4	640	...	...	...	...	65	10,408.78		
16	581	...	192	27,369.59	13	1,681.53	185	29,553.84	18	2,887.02	1	80	...	...	4	638.50		
	1,928	4	5,21	358,935.08	867	135,366.72	1,548	246,831.52	482	76,724.51	3	320	6	565	49	7,824.60		
															89,963.45	696,050.05		

PART I

\* Entries without fees.

a Including 21 fruit culture entries.

\* Entries without fees.

a Including 21 fruit culture entries.

[PART I





STATEMENT shewing work performed at the various Dominion Land Agencies, for Year ending 31st October, 1889—*Concluded.*

Receipts.																
Number of Agency.	Home- stead Fees.	Pre- emption Fees.	Inspection Fees.	Inter- change Fees.	Improve- ments.	Mining Fees.	Hay Dues.	Sun- dries.	General Sales.			Pre-emption Sales.			Extra Price Cancelled Lands.	Total Receipts.
									Cash.	Scrip.	Paid at H. O.	Cash.	Scrip.	Paid at H. O.		
1	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
2	180 00	70 00	10 00	10 00	262 70	38 36	518 70	160 00	160 00	160 00	518 70	160 00	160 00	160 00	518 70	1,230 76
3	2,900 00	370 00	1,865 00	10 00	682 40	5 80	366 88	1,387 00	1,387 00	1,387 00	366 88	1,387 00	1,387 00	1,387 00	366 88	14,184 09
4	2,650 00	1,660 00	1,150 00	10 00	191 30	5 25	2,583 18	11,256 47	11,256 47	11,256 47	2,583 18	11,256 47	11,256 47	11,256 47	2,583 18	45,535 28
5	2,500 00	1,560 00	1,085 00	10 00	44 55	77 00	194 05	80 00	80 00	80 00	194 05	80 00	80 00	80 00	34 67	5,975 27
6	800 00	40 00	570 00	30 00	78 70	208 00	2,634 32	9,069 70	9,069 70	9,069 70	2,634 32	9,069 70	9,069 70	9,069 70	376 73	23,968 23
7	770 00	400 00	25 00	10 00	470 50	4 00	96 28	117 92	117 92	117 92	96 28	117 92	117 92	117 92	71 08	2,444 78
8	1,540 00	370 00	50 00	20 00	718 70	52 00	1,283 67	2,973 00	2,973 00	2,973 00	1,283 67	2,973 00	2,973 00	2,973 00	7 50	25,965 89
9	3,560 00	1,040 00	1,540 00	30 00	657 50	9 50	1,171 53	2,088 67	2,088 67	2,088 67	1,171 53	2,088 67	2,088 67	2,088 67	892 01	17,775 37
10	4,310 00	310 00	880 00	60 00	70 00	98 50	8,085 80	5,039 00	5,039 00	5,039 00	8,085 80	5,039 00	5,039 00	5,039 00	3,605 65	26,700 95
11	580 00	170 00	310 00	40 00	102 20	3 00	126 36	831 87	831 87	831 87	126 36	831 87	831 87	831 87	8 22	3,670 74
12	8,070 00	3,210 00	6,727 50	30 00	367 58	31 50	2,173 52	4,621 16	4,621 16	4,621 16	2,173 52	4,621 16	4,621 16	4,621 16	2,726 78	36,318 43
13	7,060 00	1,390 00	3,960 00	60 00	325 80	25 40	1,773 64	10,539 52	10,539 52	10,539 52	1,773 64	10,539 52	10,539 52	10,539 52	3,077 97	77,047 73
14	150 00	50 00	20 00	50 00	90 00	10 00	1,228 94	3,603 00	3,603 00	3,603 00	1,228 94	3,603 00	3,603 00	3,603 00	26,931 83	38,155 92
15	3,680 00	1,890 00	2,655 00	50 00	109 70	5 30	180 00	40 00	40 00	40 00	180 00	40 00	40 00	40 00	89 56	45,968 35
16	880 00	290 00	110 00	60 00	251 55	814 00	6,598 52	35,646 09	35,646 09	35,646 09	6,598 52	35,646 09	35,646 09	35,646 09	464 17	2,595 04
17	4,230 00	310 00	2,285 00	60 00	2,302 95	814 00	29,015 39	87,473 40	87,473 40	87,473 40	29,015 39	87,473 40	87,473 40	87,473 40	15,798 43	64,122 40
18	43,860 00	12,760 00	23,242 50	360 00	3,805 73	173 75	29,015 39	87,473 40	87,473 40	87,473 40	29,015 39	87,473 40	87,473 40	87,473 40	15,798 43	431,698 24

NOTE.—The figures for Dufferin shew work done and receipts received up to closing of office in May last; since that date included in Winnipeg agency.  
a and b These amounts include receipts from town site sales.

J. M. GORDON,  
Inspector of Dominion Lands Agencies.

## No. 4.

DOMINION LANDS OFFICE,  
NEW WESTMINSTER, B.C., 1st December, 1889.

H. H. SMITH, Esq.,  
Commissioner of Dominion Lands,  
Winnipeg.

SIR,—I have the honor to submit for your information the following report on matters relating to this Agency for the Departmental year ended the 31st day of October last.

Settlement in all parts of the railway belt has been steadily increasing, and nearly all the surveyed available land in the New Westminster district is now entered.

The returns show that a total number of 437 homesteads, covering an area of 65,371½ acres, have been granted; that 53 homestead sales at \$1 per acre, aggregating 7,508·60 acres, have been completed; and 45 general sales, aggregating 6,567·94 acres, have been made. Of this number 31 were made at the rate of \$2.50 per acre, 12 at \$5, and 1 at \$15 per acre. 100 homesteads were cancelled on applications for inspection, and the lands so released regranted to the applicants.

The settlement of the dispute between the Dominion and Province with respect to the ownership of the Sumass Dyking Reserve has enabled me to investigate the claims of settlers in that locality, the majority of whom have since been granted entries.

Generally speaking, homesteaders are quite contented, and satisfied with their locations and prospects. Clearing is rapidly progressing in all parts of the Fraser River valley, and this district is now the most prosperous and thickly settled of any in British Columbia. Crops of all kinds have been exceptionally good, and above the average of last year, the rapidly progressing cities of Victoria, Vancouver and New Westminster affording an increasing and remunerative market for all the farm produce of the Province.

In April last I attended at Golden and investigated a number of claims and granted entries in that locality; and in returning I stopped over at Sicamous, and went up the Spillamacheen River as far as Enderby, investigated a number of claims on the ground, and granted entries for such of them as were within the confirmed surveys.

Owing to the peculiar character of the country, the skeleton nature of the surveys, and the way in which settlers in advance of survey have located their claims, there will be considerable difficulty in granting entries in the interior districts, and I am of the opinion that in a large number of cases they will require to be dealt with on the ground. The establishment, however, of an Agency at Kamloops would greatly obviate the difficulty, and save the settlers much loss of time and expense, which they can ill-afford, in coming to and returning from New Westminster.

The development of the mineral resources of the railway belt has not progressed as rapidly as was anticipated. The decision of the Privy Council, giving the Dominion the surface rights and base metals, and the Province the precious metals, has greatly complicated matters; and until a joint *modus operandi* has been concerted between the two Governments foreign capitalists will be extremely shy of investing in mining enterprises.

In my last report I mentioned that the smelting and reduction works in course of erection at Vancouver were then nearly completed. These works, I regret to state, are now at a standstill, the result of their first operation being to fuse the smelter

and ore in one solid mass. The company, I understand, intend procuring an expert from England before work is again resumed.

At Revelstoke smelting and reduction works are now being erected by the Kootenay, B.C., Smelting and Mining Syndicate, and another company is about to erect similar works at Golden. With these in full operation in the centres of the mining districts, a rapid development of the mineral wealth of the mountains may be expected.

Practically speaking, nothing has yet been done towards developing the large coal areas that exist within the railway belt. Numerous locations in the vicinity of Kamloops, Ashcroft, Chilliwack, Sumass, and Kanaka Creek, have been from time to time applied for, and the usual permission to prospect has been granted to the applicants, none of whom, with the exception of Messrs. Guerin and Laney, at Kamloops, and Messrs. McNicholl and Finney, at Ashcroft, have commenced active work of development, as required by the terms upon which their locations were reserved.

Iron ore is now attracting some attention, and locations convenient to the railway, in the vicinities of Cherry Creek, Lytton and Langley, have been granted to the discoverers.

The erection of smelting and reduction works and the enquiries now being made for this class of mining property will soon give it an appreciable value, which will bring it more prominently to the notice of prospectors, whose attention has hitherto been almost entirely confined to explorations for the precious metals.

All of which is respectfully submitted.

I have the honor to be, Sir,

Your obedient servant,

H. B. W. AIKMAN,

*Agent Dominion Lands, B.C.*

## No. 5.

## TIMBER, MINERAL AND GRAZING LANDS.

DEPARTMENT OF THE INTERIOR,

OTTAWA, 27th December, 1889.

A. M. BURGESS, Esq.,  
Deputy of the Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit the tenth annual report of the Timber, Mineral and Grazing Lands Office of the Department of the Interior.

Statements showing the revenue, amounting to \$102,732.61, derived from Crown Timber, Mineral and Grazing lands, but exclusive of sales of mineral lands for the Departmental year which ended on the 31st of October last, are appended hereto, together with the reports of the Crown Timber Agents at Winnipeg, Edmonton, Calgary, Prince Albert, and New Westminster, B.C. The above amount includes \$868.14, dues on timber cut on school lands.

The revenue is less than that of last year by \$19,015.28. There was a decrease for timber dues of \$14,781.92, for mining fees of \$47.60, for rent of grazing lands, of \$7,811.12; but an increase for hay dues of \$3,539.98, for stone quarries of \$29.23, and for royalty on coal of \$56.15.

For the sake of reference and comparison, statements showing, both by Fiscal and Departmental years, the revenue received for timber, mineral and grazing lands, from 1872 up to the 31st of October last, have been prepared, and may be found at the end of this report.

The total revenue from the Winnipeg office amounted to \$34,809.94, being a decrease of \$10,748.58 as compared with the previous year. Mr. E. F. Stephenson, the Crown Timber Agent at Winnipeg, in his report explains the reasons for this falling off of the revenue of his agency. He also makes suggestions concerning matters of vital importance to the public and this Department, which are worthy of careful consideration.

The price of lumber within the Winnipeg agency varies from \$12.50 to \$40, according to the kind and quality of the lumber. There are twenty mills in operation within this agency cutting timber under Government license.

The revenue received from the British Columbia Crown Timber Agency during the last year was \$18,044.77, a decrease of \$7,522.74; but \$15,147.61 due the Crown prior to the 31st of October, 1889, have since that date been paid in to the Department. Of the amount collected, the sum of \$4,092.50 has been received for bonuses of berths put up to public competition. The total area so acquired was about 45,310 square miles, averaging a bonus of \$90.32 per square mile. The total quantity of lumber manufactured for the year amounted to 23,759,942 feet, B.M., as compared with 24,436,895 feet, B.M., for last year, and sold at the rate of \$9 to \$10 per thousand. There are eleven mills cutting timber within this agency. Their capacity, &c., are shown in Schedule "B" annexed to the agent's report. The McLaren-Ross Lumber Company have lately erected the largest saw-mill in British Columbia, having a capacity of 250,000 feet B.M., in twelve hours.

The total amount of dues collected for timber within the Calgary agency during the year amounted to \$16,811.12, being an increase of \$6,211.73. The total quantity of lumber manufactured was 1,149,248 feet, B.M. The price of lumber at Calgary was from \$12 to \$18, at Cochrane \$12 to \$16, at Fort McLeod \$15 to \$43, at Lethbridge \$30, and Cypress Hills \$13. Six saw mills were cutting lumber within this agency last year under Government license, and several portable mills under permit.

[PART I]

35

The total amount of dues collected within the Edmonton agency was \$4,041.73, being a decrease of \$2,691.57 as compared with the previous year. The price of lumber at Edmonton during the year was \$20 to \$23 per M. feet B.M., and at St. Albert \$23 to \$25. The agent reports two saw mills in operation within his agency. Two mills were burnt last summer; one is being rebuilt, but it is not the intention to rebuild the other.

The total amount of dues collected within the Prince Albert agency was \$4,093.59, being an increase of \$674.57 over the previous year. Lumber sold at Prince Albert from \$20 to \$42 per thousand, and at Battleford from \$30 to \$35. There is only one saw mill in this agency cutting timber under license, namely, the one at Prince Albert, erected by Messrs. Moore and Macdowall in 1876. There are also several saw mills at Prince Albert and Battleford cutting timber under permit.

Saw mill returns received at the Head Office give the following quantities of building material as having been manufactured and sold during the year within the five agencies:—

	Manufactured.	Sold.
Sawn lumber.....	39,849,554	41,071,655
Shingles .....	1,621,750	2,404,750
Laths .....	682,400	675,098

Sixty licenses to cut timber over a total area of 2,289.35 square miles were issued during the year. The areas licensed in the Province of Manitoba, the three Provisional Territorial Districts, and on Dominion lands in British Columbia, are as follows:—

	Miles.
Manitoba .....	497.31
Alberta.....	1,492.67
Assiniboia .....	59.75
Saskatchewan.....	197.83
British Columbia.....	41.79

The area under license in British Columbia seems small, seeing that the authority of Council has been obtained to issue licenses to cut timber over seventy berths containing, approximately, a total area of 663 square miles. This is caused from the fact that the returns of surveys of the majority of these berths have not yet been filed here. The regulations provide that this must be done before a license issues.

In addition to the 2,247.56 square miles in Manitoba and the North-West Territories under yearly license, an area of 791 square miles is covered by twenty-one year leases, which were issued prior to December 1883. Of this latter area 559 square miles are situated on the shores of Lake Winnipegosis. The leases in question were acquired at public auction.

The number of applications received during the year to cut timber was 81, of which 45 were for licenses to cut timber in Manitoba and the North-West Territories, and the remainder to cut timber upon Dominion lands in British Columbia. The number of applications during the previous year was 107. Within the past year 11 Orders in Council, which authorized the issue of yearly licenses to applicants to cut timber on lands in Manitoba and the North-West Territories upon their complying with certain conditions, were cancelled for non-compliance. The total area of the berths described in these Orders in Council was, approximately, 506 square miles. The number of berths still under license or authorized to be licensed in the Province and Territories is 149; but it is probable that the Orders in Council which authorized the licensing of some of these berths will soon be cancelled for non-fulfilment of the conditions.

The regulations governing the granting of yearly licenses to cut timber in Manitoba and the North-West Territories, approved by His Excellency the Governor in Council on the 8th of March, 1883, as amended by Orders in Council passed since that date, have been superseded by regulations authorized by Council on the 17th of

September, 1889, which regulations also govern the disposal of licenses to cut timber on Dominion lands in the Province of British Columbia, with the exception that the yearly rental of timber berths situated west of Eagle Pass, in the Province of British Columbia, is 5 cents an acre—the same rental that is charged by the Provincial Government—instead of \$5 per square mile, the rent charged for berths in Manitoba and the North-West Territories.

By the same Order in Council the timber permit regulations for Manitoba and the North-West Territories were amended, and were also made applicable to Dominion lands in British Columbia.

It will thus be seen that the Department has now one set of timber regulations for all Dominion lands, instead of, as formerly, three distinct sets.

#### *Mining Lands other than Coal.*

Returns from the Dominion Lands Agents show that during the past year 41 entries were made for mining locations other than coal. The revenue from mining lands other than coal for the year was \$184.15, received in payment for fees for entry, and for registration of assignments. The total area of mining locations sold up to date is 108,086 acres, which realized \$5,406.50.

No amendments have been made to the regulations since October, 1887, with the exception that the regulations do not now govern the disposition of gold and silver under Dominion lands in the Province of British Columbia.

#### *Coal Mining Lands.*

The number of applications during the year was 125, and 26 of the applicants were given the privilege of purchasing, within a specified time, the location for which they applied, and 43 of the applicants were given permission to prospect thereon. Only two of them bought the land applied for, or a portion thereof, and 4 of the applicants being homesteaders were permitted to mine coal by paying 5 per cent. royalty on coal mined.

The revenue for the year derived from the sale of coal lands was \$1,662.50, being \$73,037.50 less than the previous year. The total area of coal lands sold up to date is 12,261.63 acres, and the total amount received therefor \$126,171.32.

Ten leases for twenty-one years each were issued in 1882 and 1883, of land within the Souris Coal District, but as the lessees had not complied with the provisions thereof these leases have been cancelled.

By an Order in Council dated the 11th of July, 1888, the regulations for the disposal of coal lands in the Province of Manitoba and the North-West Territories were made to govern the disposal of Dominion coal lands in the Railway Belt in British Columbia.

By Order in Council dated the 17th September last, several amendments have been made to the coal mining regulations, and provision has been made for the disposal of coal and other minerals under lands patented, the mining rights of which have been reserved. By the same Order in Council, all patents from the Crown for lands in Manitoba and the North-West Territories shall reserve all mines and minerals which may be found to exist within, upon or under such lands, together with full power to work the same. This is an extension of the Order in Council of the 31st of October, 1887, which made the same provision with respect to lands in Manitoba and the North-West Territories situated west of the Third Meridian.

#### *Grazing Lands.*

Several changes and additions have been made to the grazing regulations; the most important addition being that no person shall be allowed to graze stock of any kind on the public domain without the consent of the Minister of the Interior being first obtained, and that the grazing of the same will render them liable to seizure by the Crown and forfeiture by the owner. This provision, I think, will meet the complaint made by some of the lessees of grazing lands that they are paying rent, whilst others who have no leases are paying no rent.

The total number of leases issued by the Department to date is 195. A number of these leases have been cancelled—27 within the last year. The number of leases now in force is 115, covering a total area of 3,113,878 acres.

The following schedule shows the Names of the Lessees of Grazing Lands, the Number of their Ranches, and the Areas covered by their Leases:—

No. of Ranche.	Name of Lessee.	Area in Acres.	No. of Ranche.	Name of Lessee.	Area in Acres.
1	North-West Cattle Company	44,000	149	P. Doyle	60,000
2	do do	58,960	152	J. J. Sullivan	23,000
6	Durham Rancho Company	33,000	153	Capt. W. Thorburn	2,835
11	Alexander Begg	320	154	D. McEachran	16,640
15	Sir F. de Winton and A. J. Williams	15,000	160	J. K. Kerr	42,700
16a	D. McEachran	16,391	163	Ingram & Chambers	1,280
16b	do	29,383	167	Glengarry Rancho Company	52,320
22	Stewart Rancho Company	23,000	176	McDermid & Ross	36,588
25	Cochrane Rancho Company	73,500	185	Herbert Samson	40,000
26	do do	38,000	187	C. A. Bigger	11,000
28	A. B. Few	100,000	189	Greely & Wood	8,960
31	Military Colonization Company	60,131	193	Cypress Cattle Company	38,750
33	G. F. Wachter	7,000	195	Riddell & Green	13,400
34	Cochrane Rancho Company	33,000	197	W. C. Skrine	7,607
35	North-West Cattle Company	55,000	201	A. Adzit	1,920
35a	Moore & Martin	33,700	206	H. D. & F. E. Beveridge	3,675
36	C. W. Martin	59,270	207	D. Macpherson	18,800
38	Alfrey & Brooke	10,000	217	W. Carter	5,120
42	Bow River Horse Rancho Company	34,788	219	C. W. Saunders	3,040
45	Wells & Brown	12,000	225	Medicine Hat Rancho Company	17,000
48	New Oxley (Canada) Rancho Co.	80,000	233	G. W. Quick	5,972
55	Winder Rancho Company	50,000	236	E. W. Murphy	66,000
56	Bell Brothers	5,000	240	W. G. Conrad	32,580
57	Ives & Sharp	5,000	244	W. Tait	2,560
59	New Oxley (Canada) Rancho Co.	73,934	245	Curry Brothers	11,000
59a	C. W. Martin	26,066	247	George Alexander	2,232
62	Brunskill & Geddes	8,606	248	A. E. Cross	11,000
65	Bell & Paterson	6,000	251	G. L. Broderick	4,000
66a	Julius Hyde	3,840	252	Thynne & Hole	5,120
74	Sir J. Walrond	100,000	264	George Alexander	2,250
77	New Oxley (Canada) Rancho Co.	100,000	265	Jonathan Henderson	1,280
82	Walrond Rancho Company	100,000	266	Dixon, Gow & Co.	6,560
92	W. G. Conrad	100,000	268	F. W. & J. W. Ings	7,040
93	Garnett Brothers	20,000	280	H. D. Beveridge	16,650
94	F. W. Godsall	20,000	287	S. L. Bedson	880
96	W. F. N. Scobie	12,000	289	Canadian Pacific Colonization Corporation	44,000
101	Alberta Rancho Company	27,750	290	A. Caswell	1,920
104	W. Bell Irving	5,280	300	Cochrane Rancho Company	60,000
107	T. B. H. Cochrane	51,000	305	J. C. Slater	320
108	D. McDougall	6,000	306	John Stewart	960
111	J. Walter Ings	1,920	307	John Quirk	11,000
116	N. Boyd	5,120	308	J. & R. Mitchell	3,040
119	North-West Land and Grazing Co.	24,500	309	Canadian Pacific Colonization Corporation	11,000
120	M. Oxarart	11,000	310	Joseph Fisher	2,500
122	George Alexander	40,800	311	Boright & Parsons	6,400
123	W. C. Skrine	8,200	313	E. H. Maunsell	4,640
124	B. M. Godsall	720	314	A. E. Botterill	2,560
126	W. H. Somerton	9,700	315	H. T. Morton	640
129	Rev. J. McDougall	7,680	318	F. W. Peacock	1,120
130	Union Ranching Company	100,000	320	Charles Carey	1,920
131	Hand-in-Hand Ranching Company	100,000	321	James Fidler	1,760
132	J. Ick Evans	66,000	323	R. G. Robinson	2,560
135	D. Macpherson	41,400	325	E. Fearon	480
137	Brown Rancho Company	33,500	326	R. Mitchell	2,240
139	O. C. Gardiner	100,000	327	P. Byrne	480
140	J. B. Boustead	88,000	328	J. Mitchell	1,920
141	P. McLaren	7,500			
143	T. P. McHugh & Co.	9,700			
145	George Sheetz	100,000			
146	Canadian Agricultural Coal and Colonization Company	80,000		Total	3,113,878



These lands are situated principally in the District of Alberta and the southern portion of Assiniboia, with a few tracts in the District of Saskatchewan and the Province of Manitoba.

The number of applications received for leases of grazing lands during the year was only 42. Since April, 1887, the time the Department ceased to grant grazing leases except by public competition, there has been a great falling off in the number of applications received.

The amount received for rent of grazing lands was \$18,437.71, as compared with \$26,248.83 for the year which ended on the 31st of October, 1888. The revenue from this source has been decreasing rapidly since 1886. In that year it amounted to \$47,337.01; in 1887, \$39,577.10; in 1888, \$26,248.83; and in 1889 as above stated.

The following statement shows the total number of cattle, horses and sheep in what is known at present as the grazing districts of Alberta and Assiniboia, as reported by lessees of ranches, and computed from information derived from other sources:—

	Cattle.	Horses.	Sheep.
Lessees.....	91,822	10,471	29,282
Non-leaseholders.....	15,141	2,851	15,540

The following is a statement of the correspondence, applications received and returns examined:—

Number of letters sent.....	3,718
Number of pages of memoranda and schedules.....	864
Timber:—	
Number of berths applied for.....	97
Number of Orders in Council authorizing issue of licenses to cut timber.....	26
Number of licenses for timber berths drawn up.....	65
Number of returns for saw mills received and verified.....	86
Number of returns of surveys of timber berths received and examined.....	15
Number of permits issued to cut timber.....	4,227
Grazing:—	
Number of applications for grazing lands received.....	42
Number of leases of grazing lands authorized to be issued.	9
Number of leases of grazing lands issued.....	10
Number of applications for hay lands.....	18
Number of permits to cut hay issued by the Dominion Lands Agents.....	2,007
Mining:—	
Number of applications for coal locations received.....	125
Number of coal locations of 320 acres and less, sold.....	2
Number of applications for mineral locations other than coal.....	19
Number of entries for mining locations by Dominion Lands Agents.....	41
Number of mining locations other than coal, sold.....	0
Number of stone quarries applied for.....	11
Number of mill sites applied for.....	3
Number of applications for water power.....	0
Number of sites for smelting works applied for.....	4

I have the honor to be, Sir,

Your obedient servant,

G. U. RYLEY,

*Clerk of Timber, Mineral and Grazing Lands Office.*

[PART I]

**STATEMENT of Receipts on account of Crown Timber, for the twelve months ending the 31st October, 1889.**

Month.	Bonus.	Ground Rent.	Royalty on Returns of Sales.	Permit Fees and Dues.	Seizures, Dues and Fines for Trespass.	Miscellaneous.	Totals.
1888.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
November .....	2,162 95	318 32	1,120 23	1,123 08	182 14	75 60	4,982 32
December .....	142 50	126 32	3,897 14	2,255 07	464 25	7 10	6,892 38
1889.							
January.....	1,117 50	1,164 64	2,784 72	2,705 60	989 22	118 85	8,880 53
February .....	494 00	6,808 19	1,063 73	4,230 81	1,017 16	10 00	13,623 89
March .....		348 36	121 29	2,751 16	963 68		4,184 49
April .....	69 75	585 34	1,144 32	3,047 81	282 62	40 00	5,169 84
May .....	2,865 00	142 54	305 01	640 70	273 76	18 96	4,245 97
June .....	175 00	1,000 00	952 88	3,170 43	77 83		5,376 14
July .....		403 34	1,311 14	818 95	1,007 83	3 00	3,544 26
August .....	60 00	1,287 60	2,478 46	252 37	159 44	2 70	4,240 57
September .....	30 00	2,475 39	377 34	67 44	38 86		2,989 03
October .....		1,649 64	5,705 67	4,418 55	266 90	33 65	12,074 41
Totals.....	7,116 70	16,309 68	21,261 93	25,481 97	5,723 69	309 86	76,203 83
School Lands.....							868 14
Total.....							\$77,071 97

G. U. RYLEY,

*Clerk of Timber, Mineral and Grazing Lands.*

DEPARTMENT OF THE INTERIOR,  
OTTAWA, 31st October, 1889.

STATEMENT of Receipts on account of Grazing, Hay and Mineral Lands, for the twelve months ending the 31st October, 1889.

Month.	Grazing Lands.		Hay Lands.	Mining Fees.	Royalty from Coal Lands.	Royalty from Stone Quarried.	Totals.
	Cash.	Scrip.					
1888.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
November.....	81 01	3,620 00	134 85	33 40	8 00	.....	3,877 26
December.....	41 37	1,140 00	249 60	20 00	.....	.....	1,450 97
1889.							
January.....	58 10	847 00	236 40	5 00	.....	10 00	1,156 50
February.....	452 87	160 00	50 05	12 00	20 00	.....	694 92
March.....	14 52	1,480 00	50 70	23 25	4 00	.....	1,572 47
April.....	87 67	840 63	86 00	.....	4 70	.....	1,019 00
May.....	296 20	4,840 00	182 95	5 50	.....	.....	5,324 65
June.....	324 90	595 00	373 45	.....	.....	15 00	1,308 35
July.....	99 73	1,300 00	1,592 70	.....	.....	10 00	3,002 43
August.....	148 08	1,600 00	2,887 40	5 00	1 15	.....	4,641 63
September.....	30 63	380 00	767 10	51 00	35 40	20 98	1,285 11
October.....	.....	.....	298 35	29 00	.....	.....	327 35
Totals.....	1,635 08	16,802 63	6,909 55	184 15	73 25	55 98	25,660 64

G. U. RYLEY,  
*Clerk of Timber, Mineral and Grazing Lands.*

DEPARTMENT OF THE INTERIOR,  
OTTAWA, 31st October, 1889.

42 A.—STATEMENT showing Receipts on account of Timber, Grazing, Hay and Mineral Lands, commencing with the Departmental Year 1872-73 and ending the 31st October, 1889.

From 1st November to 31st October each Year.	Timber Dues.		Grazing Lands.		Hay Dues.	Rents and Bonuses from Coal Lands.	Mining Fees	Royalty from Stone Quarried.	Totals.	Totals added from Year to Year.
	Cash.	Scrip.	Cash.	Scrip.						
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
1872-73.....	.....	662 05	.....	.....	.....	.....	.....	.....	662 05	.....
1873-74.....	.....	2,347 00	.....	.....	.....	.....	.....	.....	2,347 00	3,009 05
1874-75.....	.....	2,146 00	.....	.....	.....	.....	.....	.....	2,146 00	5,155 05
1875-76.....	.....	387 00	.....	.....	.....	.....	.....	.....	387 00	5,542 05
1876-77.....	.....	320 00	.....	.....	.....	.....	.....	.....	320 00	5,862 05
1877-78.....	.....	1,820 00	.....	.....	.....	.....	.....	.....	1,820 00	7,682 05
1878-79.....	.....	3,388 15	.....	.....	.....	.....	.....	.....	3,388 15	11,070 20
1879-80.....	.....	31,339 95	.....	.....	.....	.....	.....	.....	31,339 95	42,410 15
1880-81.....	.....	44,524 35	.....	.....	.....	.....	.....	.....	44,524 35	86,934 50
1881-82.....	.....	75,781 26	10,123 60	.....	.....	80 00	.....	.....	85,984 86	172,919 36
1882-83.....	.....	150,712 27	18,778 83	.....	.....	880 00	.....	95 72	170,466 82	343,386 18
1883-84.....	.....	93,765 86	10,642 50	.....	135 20	541 30	.....	43 19	105,157 05	448,543 23
1884-85.....	.....	63,533 84	20,342 74	20,613 29	481 60	150 00	.....	46 98	84,966 16	533,499 39
1885-86.....	.....	70,927 70	26,723 72	28,048 33	1,303 45	40 00	.....	27 78	119,825 94	653,325 33
1886-87.....	.....	77,871 91	11,528 77	20,240 41	1,796 50	*	.....	4 21	119,479 72	772,805 05
1887-88.....	.....	91,538 24	5,988 42	20,240 41	3,369 57	*	.....	26 75	121,432 24	894,237 29
1888-89.....	.....	70,203 83	1,635 08	16,802 63	6,909 55	73 25	.....	55 98	101,864 47	996,101 76
Totals.....	.....	787,269 41	105,763 66	85,724 66	13,995 87	1,781 65	1,265 90	300 61	996,101 76	

\* Scrip Note for \$30. ' included.

B.—STATEMENT showing Receipts on account of Timber, Grazing, Hay and Mineral Lands, commencing with the Fiscal Year 1872-73, and ending the 31st October, 1889.

Fiscal Year.	Timber Dues.	Grazing Lands.		Hay Dues.	Rents and Bonuses from Coal Lands.	Mining Fees.	Royalty from Stone Quarried.	Totals.	Totals added from Year to Year.
		Cash.	Scrp.						
	\$	\$	\$	\$	\$	\$	\$	\$	\$
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
1872-73.....	109 25							109 25	109 25
1873-74.....	2,710 55							2,710 55	2,819 80
1874-75.....	2,335 25							2,335 25	5,155 05
1875-76.....	387 00							387 00	5,542 05
1876-77.....	320 00							320 00	5,862 05
1877-78.....	1,620 00							1,620 00	7,482 05
1878-79.....	325 00							325 00	7,807 05
1879-80.....	25,121 46							25,121 46	32,928 51
1880-81.....	32,028 16							32,028 34	64,956 85
1881-82.....	58,753 14				40 00			61,038 14	125,994 99
1882-83.....	90,066 46	2,245 00			880 00		33 91	113,824 80	239,819 79
1883-84.....	147,983 10	22,844 43		23 00	498 90	14 00	105 00	159,994 60	399,814 39
1884-85.....	87,474 99	11,370 60		207 25	232 40	329 00	46 98	105,380 37	505,194 76
1885-86.....	64,820 31	17,089 75		966 05	40 00	257 00	21 78	98,798 73	603,993 49
1886-87.....	65,111 74	29,562 51	3,131 08	1,509 40*		135 00	6 00	120,492 58	724,486 07
1887-88.....	94,964 55	14,242 77	39,487 67	2,123 52*	14 00	212 00	4 21	126,264 03	850,750 10
1888-89.....	90,290 00	5,922 47	23,023 28	3,621 10	39 80	233 90	51 75	113,246 87	963,996 97
Revenue to 30th June, 1889.....	764,421 14	105,485 22	82,444 66	8,450 32	1,745 10	1,180 90	269 63	963,996 97	
July, 1889.....	3,544 26	99 73	1,300 00	1,592 70			10 00	6,546 69	970,543 66
August, 1889.....	4,240 57	148 08	1,600 00	2,887 40	1 15	5 00		8,882 20	979,425 86
September, 1889.....	2,989 03	30 63	380 00	767 10	35 40		20 98	4,274 14	983,700 00
October, 1889.....	12,074 41			298 35		20 00		12,401 76	996,101 76
Totals.....	787,269 41	105,763 66	85,724 66	13,995 87	1,781 65	1,265 90	300 61	996,101 76	

\* Scrip Note for \$30.00 included.

## WINNIPEG CROWN TIMBER AGENCY.

DEPARTMENT OF THE INTERIOR,  
CROWN TIMBER OFFICE,  
WINNIPEG, 31st October, 1889.

A. M. BURGESS, Esq.,  
Deputy of the Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit my annual report of the business transacted within the Winnipeg District for the year ended this date, to be read in connection with which are the following detailed statements, namely :—

(a.) Statement of revenue derived from timber dues and other sources.

(b.) Statement of saw-mills operated under Government license in Manitoba and the Provisional District of Assiniboia as far west as the 3rd Initial Meridian, together with the quantities of material manufactured, sold and on hand by each lessee, respectively.

(c.) General office returns, and other information respecting the work of the office.

The year was not a favorable one to those engaged in lumbering in this district. The winter was short and the snowfall light. Instead of four months sleighing, as is usual in Manitoba, there were hardly three; hence the season in which hauling could be done was greatly shortened.

I believe that fully one half of the whole winter's cut was left in the woods or hung up on streams, in consequence of low water. But if the quantity of timber cut and left in the woods, from the causes just mentioned, be taken into consideration, a larger business, by several million feet, was done than in the preceding year.

It will be observed, on reference to schedule B, that the total quantity of lumber manufactured by the mills operating under Government license amounts to 13,826,827 feet, B.M., which, compared with last year, shows a falling off of 3,582,309 feet. It must be remembered, however, that the amount of lumber manufactured for the preceding year included the output at the mills at Rat Portage and Keewatin, while this year the operations there were carried on under the supervision of the Ontario Crown Timber Agent, who collected the revenue derived therefrom.

No pine lumber is now manufactured within this agency, except what is brought down the Red River from the State of Minnesota, of which this season there was about 3,000,000 feet. The only standing pine in my district, excepting Jack pine, is in that part of the district of Keewatin to the north of English River and Lac Seul.

Lumbering here is almost exclusively confined to spruce. Tamarac is the only other available timber to be found in any quantity, and as it rarely exceeds a diameter of 12 inches at the stump, it is found more profitable to make it into ties and piles for railway purposes.

The following is a nearly correct statement of the lumber sold during the year:—

Canadian manufacture, 38,464,454 ft., B.M.

United States manufacture, 10,429,017 ft., B.M.

The above shows a large increase in the importation of United States lumber over that of last year. This lumber is manufactured at Duluth and other points in the State of Minnesota, with a view, principally, of supplying the trade in the American territories to the West; but owing to the lightness in the demand, brought about largely by the failure of the grain crops in many districts, notably northern Dakota, the Manitoba market is looked to. Shipping facilities have so improved by the incoming of the Northern Pacific Railway that no difficulty is now experienced in

placing this lumber upon the market in competition with that from the mills at Rat Portage and Keewatin.

No timber or other products of the forest have been exported from this agency to the United States during the year.

The gross revenue of my agency for the year amounts to \$34,809.94, which, compared with last year, shows a decrease of \$10,748.58, accounted for chiefly by the fact that about half of the season's cut of logs were not manufactured, the licensee only being required to pay royalty dues on the amount of timber sold.

It is regrettable to have to report another year of disastrous bush fires. The country lying to the west and north-west of Lake Winnipegosis, as far as the Saskatchewan River, has been pretty generally burnt over, including the valuable timber on the berths on the Bird-Tail Creek, the western slope of the Riding Mountains, Shell River and Duck Mountain district, Swan and Etoimaini Rivers, and the Porcupine Hills. The quantity of timber in the districts named, as nearly as can be estimated, is upwards of 900,000,000 feet, B.M., of which a large part has been damaged by fire. It is needless to point out to you the almost irreparable loss thus sustained.

Timber that has been fire killed only remains good for manufacture three years at the most. A very important question now is, what is the best policy for the Department to pursue in order to get as large a quantity as possible of this dead timber manufactured into lumber within the time mentioned? The subject, I think, deserves immediate investigation.

In reference to the destruction of our forests, a question much debated is, how do these fires originate? I may say that I have enquired most carefully into the subject, and believe that, in most cases, fires can be traced to the camps and hunting grounds of Indians, while in but few cases they are started by white settlers. When it is known that Indians are constantly roaming through our northern forests, and that white people are seldom seen there, it is apparent that the former are, in nearly every case, the ones who must be held responsible. Those who are familiar with the habits of the Indians on our northern lakes will bear me out when I say that, of late years, the practice has become common among them of starting these fires as a means of communicating their whereabouts to their friends, the smoke serving as a signal. It is further reported that forests are set on fire for the purpose of driving the game to the open. I would recommend that means be adopted to bring to the minds of these people the disastrous consequences to themselves of the destruction of the woods, and that action be taken to punish those guilty of violation of the law, in which efforts I believe the Department would have the support of the more intelligent Indians.

Little damage has occurred during the past year through prairie fires to the timber on Dominion lands in the settled districts, the settlers having taken greater precautions than in former years to prevent them. Many are still of the opinion that these fires are frequently started by sparks from locomotives; but since coal has been substituted for wood as fuel on the engines, and an improved spark arrester has come into use, I believe fires from this cause are of comparatively rare occurrence.

A question which is suggested by the depletion of our forests by fires, and one that cannot be too earnestly considered by the Government, but which has hitherto received little attention, is that of the cultivation of trees on such a scale as to ensure a supply of timber for the future. Although there is no immediate cause for anxiety in Manitoba on that account, still, in some localities the settlers, having cut away all the timber within easy reach, are now compelled to go as far as two days journey, to the heavy timber belts, for a supply. In such localities the people would be found ready, I think, to co-operate with the Government in furthering any measure that promised relief.

The settlers in the North-West Territories are still less favorably situated as regards their timber supply. The treeless prairie, however rich the soil, has little to attract settlement. This is proved by the fact that, up to the present time, settlers are rarely found beyond the reach of timber. What, then, shall be the

remedy? Tree planting, as a means of earning land patents, has, I believe, wherever it has been tried, proved a failure. It seems to be the general opinion of authorities on this subject that it is one which must be dealt with directly by the Government to insure success.

I would therefore respectfully suggest, as a means of encouraging early settlement on the treeless tracts of prairie lands in the North-West Territories, the laying out, at favorable points, along the line of the Canadian Pacific Railway, say between the towns of Moose Jaw and Calgary, of two or more blocks of about eight square miles each, for the purpose of experimenting in forest tree culture. In a very few years under the supervision of a competent nurseryman, these farms could be planted; and by the selection of quick growing trees, such as the native maple, cottonwood, ash and poplar, in the space of about ten years a supply of timber for fencing and fuel could be obtained from the plantation, as a process of thinning out would be necessary from time to time to give room for the development of the timber that would be preserved until it had obtained its full growth. I am informed by experimenters in tree culture that under ordinarily favorable circumstances the maple and ash will bear seed in five years from the time of seeding. If this be true, I see no reason why the forest should not go on increasing by a natural growth from year to year, protection against the invasion of prairie fires being provided: this, in my mind, being almost the only real difficulty in carrying out such an undertaking. And besides the direct advantage to the country of the success of such an experiment, it would probably encourage the settlers to imitate the Government in tree culture on their own farms.

Fuel is somewhat cheaper than this time last year. At Winnipeg cordwood is selling, in car lots, at \$2.75 and \$4.50 a cord—poplar and spruce, respectively; \$8.75 is asked for American anthracite coal on car, and \$6.75 for native soft coal.

It is estimated that about 18,000 cords of wood and 30,000 tons of coal were sold on the Winnipeg and western markets during the year, of which quantity about 12,000 tons came from the North-West Territories.

In addition to the ordinary duties of this office, I undertook, in compliance with your instructions, the looking after the illegal cutting of hay upon Government lands. The yield of prairie hay this season has been very light, excepting on the low, marshy lands. The total absence of rain in the spring and the continued dry weather during the early summer can be regarded as the cause. Although many settlers were doubtless obliged to drive their stock a long distance in order to secure a supply of hay, still, I believe that in most cases an ample supply was obtained.

I am glad to be able to report a better observance on the part of settlers of the timber regulations, of which the increased number of permits issued and the fewer number of seizures made is evidence, as may be seen on referring to Schedule C; still, the Rangers are taxed to their utmost, and it is largely due to their constant vigilance that trespasses appear so comparatively few.

A large increase in the routine work of the office over the preceding year will be seen on reference to the same schedule. It is still being performed with the assistance of the Accountant and one other clerk.

I have the honor to be, Sir,

Your obedient servant,

E. F. STEPHENSON,

*Crown Timber Agent.*



SCHEDULE A.  
STATEMENT of Receipts from Crown Timber Agent, Winnipeg, for year ending 31st October, 1889.

Month.	Bonus.	Ground Rent.	Royalty.	Permits.	Seizures, Dues and Fines for Trespass.	Refunded Disbursements.	Timber School Lands.	Coal Mines.	Stone Quarries.	Hay Illegally Cut.	Totals.
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$
1888.											
November		204 13	157 19	776 30	182 14	64 00	17 50	8 00			1,409 26
December		55 00	28 32	2,014 56	426 77	2 00	82 32			38 60	2,647 57
1889.											
January		80 00	362 58	2,451 05	679 80	118 85	140 10			35 00	3,867 38
February		395 00	250 74	3,056 46	931 63	10 00	144 79	20 00			4,808 62
March		82 50	20 20	1,046 90	267 75		35 75	4 00			1,457 10
April		570 00	83 30	649 97	264 75	40 00	74 50			6 50	1,689 02
May				518 13	158 75		14 15			2 00	683 03
June			495 72	291 83	68 43		3 25				859 23
July		82 94	124 36	725 63	990 01		3 25			77 50	2,003 69
August		1,000 00	793 39	91 42	9 50		1 50	1 15		338 30	2,255 26
September		5 59	110 28	44 94	38 86		179 03		20 98	61 25	460 93
October		1,426 92	3,776 02	4,213 79	266 90	27 65	2 50			95 90	9,809 68
Collections at Head Office.	2,485 20	3,902 08	6,202 10	15,880 98	4,285 29	262 50	698 64	33 15	20 98	675 05	31,900 77
		194 47					169 50				2,849 17
Totals	2,485 20	4,096 55	6,202 10	15,880 98	4,285 29	262 50	868 14	33 15	20 98	675 05	34,809 94

E. F. STEPHENSON,  
Crown Timber Agent.

CROWN TIMBER OFFICE,  
WINNIPEG, 31st October, 1889.

## PORT OF WINNIPEG.

STATEMENT showing the quantity of Lumber, dressed and rough, entered at the Port of Winnipeg during the Year ended 31st October, 1889.

Description of Goods.	Unit of Quantity.	Quantity.
Lumber, dressed, pine.....	Feet.	4,852,587
do oak.....	"	4,500
Sash.....	Number.	33,030
Doors.....	"	12,752
Lumber, rough, pine.....	Feet.	5,236,175
do oak.....	"	271,600
do basswood.....	"	27,165
do cherry.....	"	19,000
do maple.....	"	1,000
Piling, pine and tamarac.....	"	16,990
Poles and posts, cedar and tamarac.....	Number.	18,215
Ties, tamarac.....	"	26,962
Shingles.....	M.	2,263

I hereby certify this statement to be approximately correct.

THOS. SCOTT,  
*Collector.*

CUSTOM HOUSE,  
WINNIPEG, 14th December, 1889.

SCHEDULE "B," showing the number of Saw Mills in the Province of Manitoba and the Provisional District of Assiniboia operating under Government license, for the Year ending 31st October, 1889.

Name of Owner or Owner and Assignee.	Where Situated.	Kind of Power.	Horse Power.	Capacity per 12 hours.	Commenced operations.	Location of Limits.	Description of Timber.	Quantity of Lumber manufactured during Year ending 31st Oc- tober, 1889.	Quantity of Lumber sold from amount on hand 31st October, 1888, and manufactured to 31st October, 1889.	Quantity of Lumber on hand, 31st October, 1889.	Quantity of Shingles manufactured during Year ending 31st Oc- tober, 1889.	Quantity of Shingles sold from amount on hand 31st October, 1888, and manufactured to 31st October, 1889.	Quantity of Shingles on hand, 31st October, 1889.	Quantity of Lath manu- factured during year ending 31st October, 1889.	Quantity of Lath sold from amount on hand 31st October, 1888, and manufactured to 31st October, 1889.	Quantity of Lath on hand 31st October, 1889.	Remarks.
				Feet.				Ft B.M.	Ft.B.M.	Ft.B.M.	No.	No.	No.				
Brouse & Co., C. A.	Bad Throat River.	Water	20	7,000	1879	Bad Throat River.	Spruce and tamarac	580,284	580,284		10,000	10,000		27,000	27,000		
Brown, Rutherford & Co.	Fisher Bay.	Steam	30	10,000	1884	Fisher Bay	do	2,401,582	3,851,582	500,000							
Bucknall Bros	Millwood	do	75	30,000	1885	Little Boggy Creek.	do		445,033	448,164		112,250	57,250		38,750	116,000	60 cords wood sold.
Cameron, Alex	Minnedosa.	do	25	6,000	1878	Riding Mountain.	do	94,034	146,529	43,631							125 railway ties sold.
*Dick, Banning & Co.	Keewatin	Water	150	60,000	1881	Lake of the Woods.	Red and white pine										See foot note.
Federal Bank of Canada.	Ebb and Flow Lake.	Steam	75	20,000	1883	Ebb and Flow Lake, Lake Winnipeg.	Spruce and tamarac	795,759	713,560	334,508							
Imperial Bank of Canada.						Riding Mountain	do										34,561 railway ties sold.
Jermyn, J. A.	Minnedosa.	Steam	50	15,000	1880	do	do		84,149						43,028		
Jonasson, Sgt.	Bad Throat River.	do	40	12,000	1886	Bad Throat River.	do	1,157,000	1,187,448	461,093	326,000	630,500	78,500	37,900	56,700	19,050	301 ship knees on hand.
*Keewatin Lumbering & Manf. Co.	Keewatin.	Water	200	12,000	1880	Islands, Lake of the Woods.	Red and white pine										See foot note.
Likely, John.	Fort Alexander.	Steam	25	8,000	1884	Bear Creek, Winnipeg River.	Spruce and tamarac	144,000	144,000								
Miller & Patton.	Bird Tail Creek.	do	50	20,000	1880	Riding Mountain	do	2,176,223	1,298,012	878,211	160,000	160,000					24,000 railway ties sold.
Morton, George.	Turtle Mountain.	do	40	12,000	1882	Turtle Mountain.	Oak and poplar.		49,584			18,000					
McArthur, Peter.	Lake Manitoba	do	20	6,000	1885	Basket Creek	Spruce and tamarac	800,000	229,682	613,703							3,403 r'y ties sold (all cut under permit).
McFadyen, David	Sec. 19, Tp. 11, R. 16 W.	do	16	3,000	1884	Riding Mountain	do	245,000	245,000								
North-West Timber Co.	Bull Head Bay.	do	35	12,000	1884	Humbag Bay, Lake Winnipeg.	do	251,553	413,140								Lumber manufactured from logs purchased by T. Cochrane at sheriff's sale.
*Rainy Lake Lumber Co	Rat Portage	do	95	60,000	1883	Rainy Lake.	Red and white pine										See foot note.
Ross, David	Whitemouth	do	35	10,000	1880	Whitemouth River	Spruce and tamarac	2,747,072	2,747,072								Cut under permit.
Selkirk Lumber Co.	Fisher River	do	75	30,000	1880	Fisher River.	do	1,658,232	1,692,613								License cancelled.
Smith, Samuel	Turtle Mountain	do	20	7,000	1881	Turtle Mountain	do										
Sprague, Daniel.	Winnipeg.	do	75	30,000	1882	Roseau River	Pine and spruce.		50,678	289,967							
Wells Bros	Balmoral	do	16	3,000	1884	Township 17, Range 2 E.	Spruce and poplar.	47,611	47,611								
Whymster & Kyall.	Strathclair	do	25	6,000	1880	Riding Mountain		728,477	818,477	130,000	199,000	191,500	100,000				782 cords slabs sold.
Grand Totals								13,826,827	14,744,454	3,699,277	695,000	1,112,250	942,250	64,900	165,478	135,050	

\* Now operating under supervision of the Ontario Government {  
 { Dick & Banning.  
 { Keewatin Lumbering and Manufacturing Co. (Limited).  
 { Rainy Lake Lumber Company.

E. F. STEPHENSON,  
 Crown Timber Agent.



## SCHEDULE C.

GENERAL OFFICE Return for the Twelve Months ending 31st October, 1889.

Description of Return.	Number.	Compared with Last Year.	
		Increase.	Decrease.
Number of letters written .....	5,922	952	
do do received .....	2,315	254	
do permits issued homesteaders free .....	774	72	
do do subject to dues .....	2,868	1,500	
do seizures made .....	441		1,049
do mill returns received and verified .....	35		10

E. F. STEPHENSON,  
*Crown Timber Agent.*

CROWN TIMBER OFFICE,  
WINNIPEG, 31st October, 1889.

---

EDMONTON CROWN TIMBER AGENCY.

---

DEPARTMENT OF THE INTERIOR,  
CROWN TIMBER OFFICE,  
EDMONTON, 2nd November, 1889.

SIR,—I have the honor to enclose annual statements for the year ending 31st ult., showing an increase as compared with last year of 37 permits granted; also an increase of 57 letters received and 66 sent. The amount received under the head "Returns under Lease" also shows an increase of \$174.84.

The quantity of sawn lumber shows a decrease, owing to the fires that have been burning since early spring which have destroyed large quantities of timber, and which also destroyed two saw-mills. One has since been rebuilt, the other, owned by the Mission, will not be rebuilt.

This country has suffered severely from fires since early spring, and they are still in the peat smouldering, and will continue until we have heavy snow. I used every possible means to find the origin, but without avail. We are not alone in regard to these fires; they extend over the mountains, and have been more destructive across the international boundary.

Our crops are light, but of an excellent quality, when it is taken into account that last winter we had no snow, and only two or three showers of rain since. It speaks volumes for the fertility of this district.

Different parties from Ontario, Dakota, &c., have visited this part during the summer, some of them brought here by the Edmonton Board of Trade. They have all left favorably impressed with the country. Some, before leaving, secured homesteads; others intend returning with their families and friends.

The Deputy Minister visited Edmonton this fall, and settled some long standing disputes to the satisfaction of all concerned, and has left behind him the good opinion of all he came in contact with.

The whole respectfully submitted.

I have the honor to be, Sir,

Your obedient servant,

THOS. ANDERSON,

*Crown Timber Agent.*

H. H. SMITH, Esq.,  
Commissioner of Dominion Lands,  
Winnipeg, Man.

SCHEDULE A.  
STATEMENT of Receipts on account of Crown Timber, for the Twelve Months ending the 31st October, 1889.

Month.	Bonus.	Ground Rent.	Royalty.	Permits.	Seizures, Dues and Fines for Trespass.	Miscellaneous.	Total Collected at Edmonton.	Total Collected at Head Office.	Totals.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1888.									
November.....			135 05			11 30	146 35		146 35
December.....		145 00	10 95	37 00			192 95		192 95
1889.									
January.....		250 00	155 87	38 75		6 00	450 62		450 62
February.....		230 00	60 23	189 00	44 86		524 09		524 09
March.....				19 75	30 50		50 25		50 25
April.....			56 30	18 09	32 09		106 48		106 48
May.....				6 80			6 80	319 00	325 80
June.....				14 72	9 82	3 00	27 54	1,000 00	1,027 54
July.....			491 48	51 75			543 23		543 23
August.....		2 40	112 30	20 25	4 00	2 70	141 65	250 00	391 65
September.....				0 25		6 00	6 25		6 25
October.....			165 66	79 08			215 04	29 70	244 74
Amounts collected at Head Office.....		627 40	1,187 84	475 44	121 27	29 00	2,411 25	1,598 70	4,009 95
Totals.....	319 00	1,250 00		29 70					
	319 00	1,877 40	1,187 84	505 14	121 27	29 00			
Add \$54.70 collected prior to the 31st October, 1888, and received at Head Office subsequent to that date.....									
Deduct \$22.92 collected prior to 31st October, 1889, but not received at Head Office until after that date.....									
Total.....									

## SCHEDULE

SHOWING the Saw Mills in the Edmonton Crown Timber Agency, operating

Name of Owner or Owner and Assignee.	Where Situated.	Kind of Power.	Horse Power.	Capacity per 12 hours.  Feet.	Commenced operations.	Description of Timber.
Moore & Macdowall.....	White Mud....	Steam..	40	10,000	1885	Spruce .....
Fraser & Co.....	Edmonton.....	Steam..	30	10,000	1880	Spruce .....
Lamoureux Bros.....	Stony Plain....	Steam..	20	5,000	1883	Spruce .....
*St. Albert Mission.....	St. Albert.....	Water..	20	5,000	1883	Spruce .....
Totals.....	.....	.....	.....	.....	.....	.....

\*Mill burned down. Not rebuilt.

CROWN TIMBER OFFICE,  
EDMONTON, 31st October, 1889.



B.

under Government License, during the Year ending 31st October, 1889.

Logs Cut at	Quantity of Lumber manu- factured during the Year ending the 31st October, 1889.	Quantity of Lumber sold during the Year ending the 31st October, 1889.	Quantity of Shingles manu- factured during the Year ending the 31st October, 1889.	Quantity of Shingles sold during the Year ending the 31st October, 1889.	Quantity of Laths manu- factured during the Year ending the 31st October, 1889.	Quantity of Laths sold during the Year ending the 31st October, 1889.
	Ft., B. M.	Ft., B. M.	No.	No.		
White Mud, North Saskatchewan....	404,212	493,987	229,000	133,000	178,300	18,600
North Saskatchewan River.....	572,096	273,503	262,000	231,500	7,500	7,500
Stony Plain.....	97,229	313,561	378,500	373,500	76,500	89,500
Near Egg Lake.....	40,000	4,744	9,000	98,500	.....	.....
.....	1,113,537	1,085,795	878,500	836,500	262,300	115,600

THOS. ANDERSON,  
*Crown Timber Agent.*

## SCHEDULE C.

GENERAL OFFICE Return for Twelve Months ending 31st October, 1889.

Description of Return.	Number.	Compared with Previous Year.		Remarks.
		Increase.	Decrease.	
Number of letters written .....	649	66	.....	
do do received .....	267	57	.....	
do permits issued .....	90	37	.....	
do seizures made .....	4	.....	28	
do mill returns received .....	14	.....	.....	

THOS. ANDERSON,  
*Crown Timber Agent.*

CROWN TIMBER OFFICE,  
EDMONTON, 31st October, 1889.

## CALGARY CROWN TIMBER AGENCY.

DEPARTMENT OF THE INTERIOR,  
CROWN TIMBER OFFICE,  
CALGARY, 5th December, 1889.

SIR,—I have the honor to submit my annual report of the business transacted within this agency for the year ended the 31st October, 1889, viz.:—

Schedule "A." Statement showing the revenue derived from timber dues.

Schedule "B." Number of saw-mills operating under Government license in the District of Alberta and part of Assiniboia.

Schedule "C." General office returns and other information respecting the work of this office.

I have the honor to be, Sir,

Your obedient servant,

C. L. GOUIN,  
*Crown Timber Agent.*

H. H. SMITH, Esq.,  
Commissioner of Dominion Lands,  
Winnipeg, Man.

SCHEDULE A.

STATEMENT of Receipts on account of Crown Timber, for the Twelve Months ending the 31st October, 1889.

Month.	Bonus.	Ground Rent.	Royalty.	Permits.	Seizures, Dues, and Fines for Trespass.	Miscellaneous.	Total collected at Calgary.	Total collected at Head Office.	Totals.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1888.									
November.....			241 19	12 25			253 44	25 00	278 44
December.....				67 00	37 48	5 10	109 58	3,488 12	3,597 70
1889.									
January.....	150 00		635 12	69 80	140 92		995 84	1,250 00	2,245 84
February.....		250 00	640 82	46 30			937 12	5,678 58	6,615 70
March.....		250 00	15 84	7 33	274 60		547 77	10 86	558 63
April.....			279 67	2,123 51	6 52		2,409 70	25 00	2,434 70
May.....		12 26		12 00	58 97	18 96	102 19		102 19
June.....			7 06	60 25			67 31		67 31
July.....			15 01	12 75			27 76		27 76
August.....			479 70	48 25	141 94		669 89		669 89
September.....				2 25			2 25	166 66	168 91
October.....			7 71	12 25			19 96		19 96
Amounts collected at Head Office.....	150 00	512 26	2,322 12	2,473 94	660 43	24 06	6,142 81	10,644 22	16,787 03
Totals.....	40 00	6,089 10	4,488 12		27 00				
	190 00	6,601 36	6,810 24	2,473 94	687 43	24 06			
ADD—\$44.05 collected prior to 31st October, 1888, and received at Head Office subsequent to that date.....									44 05
DEDUCT—\$19.96 collected prior to 31st October, 1889, but not received at Head Office until after that date.....									16,831 08
Total.....									19 96
									16,811 12

MEMO.—During the year the sum of \$4.70 was collected for Royalty on Coal Mines.

CROWN TIMBER OFFICE,  
CALGARY, 31st October, 1889.

C. L. GOUIN,  
*Crown Timber Agent.*

## SCHEDULE

SHOWING the Saw Mills in the Calgary Crown Timber Agency, operating

Name of Owner or Owner and Assignee.	Where Situatd.	Horse Power.	Kind of Power.	Capacity per 12 hours.  Feet.	Commenced operations.	Description of Timber.
Peter McLaren.....	Mill Creek.....	20	Water..	5,000	1882	Spruce, red fir and pine.
Peter McLaren.....	Fort McLeod...	25	Steam..	10,000	1888	Spruce, fir and pine....
<i>a</i> James Walker.....	Kananaskis.....	60	do ..	15,000	1887	Spruce, pine & cypress..
<i>b</i> Calgary Lumber Company....	Cochrane.....	75	do ..	20,000	1885	Spruce and fir.....
Eau Claire & Bow River Lum- ber Company.....	Calgary.....	75	do ..	25,000	1887	Fir, spruce and Douglas pine.....
Louis Sands.....	Cypress Hills. ...	30	do ..	18,000	.....	Pine and spruce.....
<i>c</i> North-Western Coal & Naviga- tion Company.....	Lethbridge.....	20	do ..	5,000	1885	Spruce.....
<i>d</i> D. Morrison.....	Sheep Creek.....					
<i>e</i> Alberta Lumber Company....	Red Deer.....					
Totals.....						

*a*Last return received 31st October, 1888.*b*Last return received 30th June, 1888.*c*Mill closed in August, 1888.*d*Did not saw this season.*e*Not operating as yet.CROWN TIMBER OFFICE,  
CALGARY, 31st October, 1889.

B.,  
under Government License during the Year ending the 31st October, 1889.

Logs Cut at	Quantity of Lumber manu- factured during the Year ending the 31st October, 1889.	Quantity of Lumber sold during the Year ending the 31st October, 1889.	Quantity of Shingles manu- factured during the Year ending the 31st October, 1889.	Quantity of Shingles sold during the Year ending the 31st October, 1889.	Quantity of Laths manu- factured during the Year ending the 31st October, 1889.	Quantity of Laths sold during the Year ending 31st October, 1889.
	Ft., B. M.	Ft., B. M.	No.	No.	No.	No.
Mill Creek.....		72,884		33,500	3,200	3,200
South Fork of Old Man River.....	24,248	221,813	48,250	159,750		300
Bow River.....						
Cochrane.....						
Calgary.....	1,125,000	909,626			352,000	347,000
Cypress Hills.....		86,907		107,750		
South Fork of Old Man River.....						
.....						
.....						
.....	1,149,248	1,291,230	48,250	301,000	355,200	350,500

C. L. GOUIN,  
*Crown Timber Agent.*

## SCHEDULE C.

GENERAL OFFICE Return for the Twelve Months ending 31st October, 1889.

Description of Return.	Amounts.	Compared with Previous Year.		Remarks.
		Increase.	Decrease.	
Number of letters received .....	531	194		
do written .....	545	105		
Notices sent .....	470	367		
Free permits issued .....	262	154		
Due do .....	34	16		
Seizures made .....	7	6		
Mill returns received .....	12			
Leases cancelled .....				

C. L. GOUIN,  
*Crown Timber Agent*

CROWN TIMBER OFFICE,  
CALGARY, 31st October, 1889.

---

PRINCE ALBERT CROWN TIMBER AGENCY.

---

CROWN TIMBER OFFICE,  
PRINCE ALBERT, 26th November, 1889.

A. M. BURGESS, Esq.,  
Deputy of the Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit for your information the following report of the business transacted by this office for the Departmental year which ended on the 31st October last, including :

Schedule (A). Statement showing revenue derived from timber dues.

Schedule (B). Number of saw mills operating under Government license in the District of Saskatchewan.

Schedule (C). General office returns, and other information respecting the work of this office.

I have the honor to be, Sir,

Your obedient servant.

JOHN McTAGGART,

*Crown Timber Agent.*

## SCHEDULE A.

STATEMENT of Receipts on account of Crown Timber, for the Year ending the 31st October, 1889.

Month.	Bonus.	Ground Rent.	Permits.	Seizures, Dues and Fines. for Trespass.	Total collected at Prince Albert.	Total collected at Head Office.	Totals.
1888.	\$ cts	cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
November .....			141 65	}	149 65		149 65
			8 00*				
December .....			124 01		284 61	10 00	294 61
			160 60*				
1889.							
January .....			58 84	}	67 44		67 44
			8 60*				
February .....			51 60		53 10	20 00	73 10
			1 50*	}			
March .....			51 26		59 01	375 00	434 01
			7 75*				
April .....			233 19	}	281 39		281 39
			48 20*				
May .....			49 58		151 01		151 01
			92 03*	}			
June .....			51 05		8 00	54 50	114 55
			1 00*		60 05		
July .....			102 20	}	109 40		109 40
			3 20*				
August .....			104 91		109 81		109 81
			4 90*	}			
September .....			148 00*		148 00	2,269 54	2,417 54
October .....			1 00	}	229 25		229 25
			228 25*				
Amounts collected at Head Office...	30 00	2,269 54	1,681 32	21 40	1,702 72	2,729 04	4,431 76
			54 50	375 00			
Totals .....	30 00	2,269 54	1,735 82	396 40			
Add \$15.03 collected prior to 31st October, 1888, and received at Head Office subsequent to that date.....							15 03
Deduct \$353.20 collected prior to 31st October, 1889, but not received at Head Office until after that date.....							4,446 79
							353 20
Total.....							4,093 59

NOTE.—Dues collected at Battleford shown thus \*

JOHN McTAGGART,  
Crown Timber Agent.

CROWN TIMBER OFFICE,  
PRINCE ALBERT, 31st October, 1889.



SCHEDULE B.

SHOWING the Saw Mills in the Prince Albert Crown Timber Agency, operating under Government License, during the Year ending the 31st October, 1889.

Name of Owner or Owner and Assignee.	Where Situ- ated.	Kind of Power.	Horse Power.	Capacity per 12 hours.	Commenced operations.	Description of Timber.	Logs Cut at	Quantity of Lumber manu- factured during the Year ending the 31st October, 1889.	Quantity of Lumber sold during the Year ending the 31st October, 1889.	Quantity of Shingles manu- factured during the Year ending the 31st October, 1889.	Quantity of Shingles sold during the Year ending the 31st October, 1889.	Quantity of Laths manu- factured during the Year ending the 31st October, 1889.	Quantity of Laths sold during the Year ending the 31st October, 1889.
Moore & Macdowall...	Prince Albert, N.W.T.....	Steam	75	Feet. 35,000	1876	Spruce, pine and poplar.....	.	Ft., B. M. ....	Ft., B. M. ....	M. ....	M. ....	M. ....	44,500 Nil.

[PART I]

JOHN McTAGGART,  
*Crown Timber Agent.*

CROWN TIMBER OFFICE,  
PRINCE ALBERT, 19th November, 1889

## SCHEDULE C.

GENERAL OFFICE Return for the Twelve Months ending 31st October, 1889.

Description of Return.	Number.	Compared with previous Year.	
		Increase.	Decrease.
Number of letters written.....	386	.....	81
do do received.....	291	.....	92
do permits issued.....	169	.....	46
do seizures made.....	3	.....	2
do mill returns made.....	5	.....	1
do permits issued at Battleford.....	27	.....	17

JOHN McTAGGART,  
Crown Timber Agent.

CROWN TIMBER OFFICE,  
PRINCE ALBERT, 19th November, 1889.

## BRITISH COLUMBIA CROWN TIMBER AGENCY.

DEPARTMENT OF THE INTERIOR,  
CROWN TIMBER OFFICE,

NEW WESTMINSTER, B.C., 26th Dec., 1889.

A. M. BURGESS, Esq.,  
Deputy of the Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit my annual statement of timber matters in this Province for the Departmental year ending 31st October, to which are attached the following:—

A.—Statement showing the revenue from all sources.

B.—Statement of saw-mills in operation, the logs to supply which are derived from both Dominion and Local Government lands.

In the statement I had the honor to submit to you on the 31st October of last year, I stated that enquiries had been made by both Eastern Canadian and American lumbermen, with the view of establishing extensive mills in the Province. I am now pleased to be able to state that as a result of these enquiries James McLaren, Esq., of Ottawa, and the Ross family, of Quebec, have erected on the Fraser River near this city, the largest mill in the Province, being 450 feet by 75 feet, with a cutting capacity of 250,000 feet B.M. per diem. This has stimulated Canadian and American capitalists, many of whom have their advance guards looking after limit and mill sites.

In my last report I mentioned that our Douglas pine and cedar, both of which are acknowledged by experts to be superior to anything found on this continent, have already found sale at remunerative prices in the markets of China, Japan, the Australian Colonies, and South American States. I am now enabled to say that since that time several cargoes of these woods have been shipped to Great Britain, by way of the Horn, and notwithstanding an excessive rate of freight, found ready sale at prices which warranted further shipments. We have, therefore, every reason to look forward, at a very early day, to an immense expansion of the lumber trade of the Province, the timber of the Rocky, Selkirk, and Gold Ranges of the Rocky Mountains finding their way to our great North-West prairies, the wheat fields of the world; while the lumber manufactured from the timber growing nearer the coast will chiefly go to the other markets mentioned above.

The total amount of timber dues for the Departmental year ending 31st October, 1889, amounted to \$33,192.38.

Of which I received up to that date..... \$18,044 77

And since that date the balance..... 15,147 61

\$33,192 38

being an increase of \$7,624.87 over the previous year. I have therefore every reason to anticipate, considering the unprecedented development and ever increasing value of the lands in the 40-mile belt, a revenue for the present year of at least \$50,000.

I have the honor to remain, Sir,

Your obedient servant,

T. S. HIGGINSON,

*Dominion Crown Timber Agent for British Columbia.*

## SCHEDULE A.

STATEMENT of Receipts on account of Crown Timber, for the Twelve Months ending the 31st October, 1889.

Month.	Dues on Timber Cut under License.	Bonus.	Ground Rent.	Permits.	Seizures, Dues and Fines for Trespass.	Total collected at New Westminster.	Amounts collected at Head Office.	Totals.
1888.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
November	537 60			162 25		699 85	89 19	789 04
December	380 70		13 72			394 42	57 60	452 02
1889.								
January	491 16				168 50	659 66	1,179 04	1,839 30
February	240 98			834 85	17 50	1,093 33	755 61	1,848 94
March	85 25			1,596 83	12 00	1,694 08	5 00	1,699 08
April	725 05					725 05		725 05
May	305 01		36 40		35 30	376 71	2,633 25	3,009 96
June	450 10			2,625 41		3,075 51	175 00	3,250 51
July	680 29					680 29	320 40	1,000 69
August	1,093 07					1,093 07	35 20	1,128 27
September	267 06		33 60			300 66		300 66
October	1,778 53		13 72			1,792 25	200 00	2,001 25
Totals	7,034 80		97 44	5,219 34	283 30	12,584 88	5,459 89	
Amounts collected at Head Office.		4,092 50	1,367 39					
Grand Total	7,034 80	4,092 50	1,464 83	5,219 34	283 30			18,044 77

T. S. HIGGINSON,  
*Crown Timber Agent.*CROWN TIMBER OFFICE,  
NEW WESTMINSTER, B.C., 31st October, 1889.

## SCHEDULE B.

SHOWING the Saw Mills in the Crown Timber Agency, New Westminster, B.C., cutting Timber on Dominion Lands, during the Year ending the 31st October, 1889.

Name of Owner or Owner and Assignee.	Where Situated.	Kind of Power.	Capacity per 12 hours.	Description of Timber.	Logs Cut at	Quantity of Lumber manufactured during the Year end- ing 31st October, 1889.	Quantity of Lumber sold during the Year ending 31st October, 1889.
Royal City Planing Mills Co. ....	New Westminster...	Steam ....	75,000	Douglas pine, spruce and cedar.	New Westminster.....	Ft., B.M. 13,130,841	Ft., B.M. 13,130,841
Brunette Saw Mill Co. ....	do .....	do .....	40,000	do ..	do .....	2,514,767	2,514,767
Palliser Lumber Co. (W. C. Wells)	Palliser.....	do .....	25,000	do ..	Wapta River.....	1,392,078	1,392,078
Fred. Robinson.....	Beaver.....	do .....	25,000	do ..	Beaver River.....	1,862,496	1,862,496
Knight Bros.....	Popcum.....	Water.....	50,000	do ..	New Westminster.....	.....	.....
H. V. Edmunds.....	Port Moody.....	Steam ....	15,000	do ..	do .....	3,606,150	3,606,150
Grant & Kerr.....	Ladners.....	do .....	15,000	do ..	do .....	1,253,610	1,253,610
MacLaren Ross Lumber Co .....	New Westminster...	do .....	250,000	do ..	do .....	.....	.....
Totals. ....	.....	.....	.....	.....	.....	23,759,942	23,759,942

T. S. HIGGINSON,  
*Crown Timber Agent.*

CROWN TIMBER OFFICE,  
NEW WESTMINSTER, B.C., 31st October, 1889.

## No. 6.

## ORDNANCE AND ADMIRALTY LANDS.

DEPARTMENT OF THE INTERIOR,  
ORDNANCE AND ADMIRALTY LANDS BRANCH,  
OTTAWA, 12th December, 1889.

A. M. BURGESS, Esq.,  
Deputy of the Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit a report of the transactions in connection with the Ordnance and Admiralty Lands Branch of the Department of the Interior for the fiscal year ended the 30th June, 1889.

The schedules annexed, marked respectively A, B and C, show the receipts for the year to be considerably in excess of those of the year ended 30th June, 1888.

(A.) Statement of Sales.

The following properties have been disposed of during the year :—

(1.) The "Feeder Farm" being part of Lot No. 9 in the 1st or front range of the township of Chatham, P.Q., comprising an area of 90 acres, was sold by public auction for \$1,368 (at the rate of \$15.20 per acre).

(2.) At Edmundston, in the County of Madawaska, N.B., sub-lots Nos. 28 and 29, area 3 roods and 2 perches, were sold for \$75.00.

(3.) At Fort Erie 6 acres of land, forming part of Garrison Reserve, were sold in accordance with an Order in Council, to Mr. W. A. Wood, whose family had occupied and improved the property during a period of thirty-six years. The price paid was \$120 (or \$20 per acre).

(4.) Certain water lots at Fort Erie, situated in front of lots Nos. 2, 3 and 4, in the 1st Concession of the Township of Bertie, comprising 2,850 lineal feet, were, in pursuance of an Order in Council, sold to the Erie and Niagara Railway Company, who had been in continuous possession of the lots since the year 1864, for the sum of \$4,000 (in addition to the payment of \$4,000 on account of interest).

(5.) At Temiscouata, the property known as "Fort Ingall," consisting of 11 acres of land and sundry dilapidated buildings, was sold by public auction for \$200. For some years prior to the date of the sale it was considered necessary to employ a caretaker, who resided on the premises, and was paid at the rate of \$91 per annum. By the disposal of this property a saving of the amount mentioned has been effected.

(6.) The premises known as the "Old Military Hospital" at Hochelaga with 2a. 1r. 19p. of land in connection therewith, was sold by authority of an Order in Council to the Government of the Province of Quebec, for the sum of \$11,641.23. As in the case of Temiscouata, the sale of this property has rendered the services of a caretaker no longer necessary. The salary paid to the caretaker for a number of years past has been at the rate of \$182.50 per annum, to which extent a further saving as been effected.

(7.) At Sorel, lot No. 189, in concession of Rhimbeault, 12 arpents and 15 perches, was sold for \$24.30.

(8.) In the city of Ottawa 12 ordinary town lots and one-half of a lot have, by the payment of \$2,284.82, made by the respective lessees, been converted into freehold, in accordance with the terms and conditions contained in the original leases, granted by the principal officers of Her Majesty's Ordnance.

(B.) Statement showing the several localities of Ordnance properties on account of which moneys have been received.

(C.) Statement of amounts received (monthly) during the fiscal year. The total receipts were, \$42,072.07, being \$5,783.59 in excess of the receipts of the previous year.

In the month of May last a survey and sub-division of a part of the "Logan's Farm" property lying south of Sherbrooke street and extending from the west side of Papineau road to the west side of Beaudry street, in the city of Montreal, was made by Mr. Joseph Rielle, P.L.S., under instructions from this Department, and was laid off into 132 ordinary building lots, having, with a few exceptions, a uniform frontage of 25 feet, by a depth varying from 92 to 121 feet. On the 27th June 97 of these lots were sold by public auction at the rooms of Mr. W. H. Arnton, auctioneer, 1747 Notre Dame street, Montreal, and realized good prices; but as the return of the sale could not be made until after the close of the fiscal year, the receipts on account thereof will be included in the monetary transactions of the current year.

The lease of the Government farm at Longueuil, at present held by Mr. Michael Carmel, will expire on the 1st of May next, and its future disposition will be a matter for the consideration of the Honorable the Minister of the Interior. I have long entertained an opinion that if this property, which comprises an area of about 190 acres, were surveyed and laid off into villa or ordinary building lots, and the same were offered for sale by public auction, upon the usual easy terms as to payment, a sum would be realized sufficiently large to produce, say at 6 per cent. an annual income of at least four times the amount, viz., \$525.00 now paid as rent by Mr. Carmel, and which has been subject to several abatements on account of damages sustained by him during the prevalence of the serious floods of 1886-87.

The Ordnance property known as "The Common," at Chambly Canton, which has been laid off into 20 building lots, varying in size, has remained vacant for several years. The depressed state of business which has existed for a long time in Chambly has rendered the sale of this property for anything like a sum approaching its real value quite hopeless. The land is eligibly situated, and if fenced in, planted with trees and properly levelled and turfed, might be made a very attractive spot, and could be used when required as a camping and parade ground for the volunteers. Situated as it is, in the immediate vicinity of the picturesque ruins of the old French Fort "Pontchartrain," it would be a subject of regret if it became disfigured by the erection thereon of unsightly and inferior buildings. The custody of this "Common" should, in my opinion, be placed in the Department of Militia and Defence, by whom the suggestions I have ventured to make might be considered worthy of consideration.

With reference to the contemplated leasing of the valuable water power and the premises known as the "Old French Fort" attached thereto, situate at Coteau du Lac, it was considered advisable, before proceeding to advertise the sale of the lease of the property by public auction, to consult the Department of Railways and Canals with a view to ascertaining whether or not any portion of the property was likely to be required for canal purposes, and upon being notified by that Department that it would not be advisable to dispose of these lands in any way before the canal question there is quite decided, the leasing of the property or any portion thereof was indefinitely postponed.

I had intended to submit for your consideration a scheme for the disposal of certain Ordnance properties situated in the city of Ottawa, and at other places referred to in my last annual report, but the pressure of other and important matters have prevented me from doing so. I hope, however, to be in a position to prepare such a scheme as will meet with your approval in the course of the ensuing spring. Since the close of the fiscal year a number of lots, situated in the town of Prescott, have been disposed of, at prices fairly satisfactory. The particulars of this sale will appear in the report for the current year.

The work of this branch has, during the year, been sufficiently heavy to engage continuously during the ordinary office hours, and not infrequently for hours after, the time and undivided attention of the clerk in charge, and his two assistants, and may be summarised as follows:—

---

Letters received 590; letters written (including a number of special and lengthy reports), 655; upwards of 500 notices and statements of account prepared and forwarded to tenants and purchasers in arrears; leases issued, 7; drafts prepared for letters patent, 55; assignments registered, 51; and warrants issued for the Bank of Montreal to receive moneys, 117. In addition to which the accounts, numbering 1,100, at present open in the books of this branch, have been carefully kept. Other duties of minor importance might be referred to.

I have the honor to be, Sir,

Your obedient servant,

WILLIAM MILLS,

*In charge of Ordnance and Admiralty Lands.*



A.

STATEMENT of Sales made during the Fiscal Year ended 30th June, 1889.

Locality.	Number of Lots Sold or Redeemed.	Amount Sold for.	Amount Received on Account.
		\$ cts.	\$ cts.
Chatham, Q.	90 acres.	1,368 00	273 60
Edmundston	2 lots.	75 00	75 00
Fort Erie	6 acres.	120 00	120 00
do (in the Township of Bertie)	Water Lot in front of Lots 2,3 and 4	4,000 00	4,000 00
Fort Ingall.	11 acres.	200 00	40 00
Hochelaga	2 A. 1 R. 19½ P	11,641 23	11,641 23
Ottawa	12½ lots.	2,284 82	2,284 82
Sorel, Seigniori of.	12 arp. 15 per	24 30	24 30
Total		19,713 35	18,458 95

WILLIAM MILLS,

In charge of Ordnance and Admiralty Lands.

DEPARTMENT OF THE INTERIOR,  
ORDNANCE AND ADMIRALTY LANDS,  
OTTAWA, 12th December, 1889.

B.

STATEMENT showing the several Localities on account of which Moneys have been received during the Fiscal Year ended 30th June, 1889.

Locality.	Amount.	Locality.	Amount.
	\$ cts.		\$ cts.
		Brought forward	26,498 08
Amherstburg	444 50	Niagara	518 75
Chambly	121 88	New Brunswick	256 25
Chatham	289 60	Niagara Falls	102 00
Elmsley	9 70	Oxford	1 60
Edmundston	75 00	Ottawa	9,656 11
Fort Erie	8,241 00	Point Pelee	400 00
Gloucester	189 58	Quebec	3,000 00
Grand Falls, N.B.	190 18	Sorel	631 89
Hochelaga	11,666 23	Sarnia	40 00
Kingston	4,033 00	South River	25 00
Longueuil	562 50	Toronto	802 40
Montreal	2 00	Temiscouata	40 00
Nova Scotia	40 25	Wolford	19 39
Nepean	632 66	Registration fees	80 60
Carried forward	26,498 08	Total	42,072 07

WILLIAM MILLS,

In charge of Ordnance and Admiralty Lands.

DEPARTMENT OF THE INTERIOR,  
ORDNANCE AND ADMIRALTY LANDS,  
OTTAWA, 12th December, 1889.

## C.

STATEMENT of Receipts on account of Ordnance and Admiralty Lands, for the Fiscal Year ended 30th June, 1889.

Date.	Registration Fees.	Rent or Interest.	Principal.	Total Amount.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1888.				
July.....	23 20	5,300 03	4,533 70	9,856 93
August.....		1,912 88	12,272 23	14,185 11
September.....		483 80	411 32	895 12
October.....	11 25	808 55	983 00	1,802 80
November.....		385 01	4,623 54	5,008 55
December.....		391 26	563 50	954 76
1889.				
January. ....	5 95	355 98	677 59	1,039 52
February.....		448 57	558 91	1,007 48
March.....		622 00	508 91	1,130 91
April.....	19 00	2,310 08	340 00	2,669 08
May.....	1 00	1,176 99	724 80	1,902 79
June.....	20 20	715 82	883 00	1,619 02
Total.....	80 60	14,910 97	27,080 50	42,072 07

WILLIAM MILLS,

*In charge of Ordnance and Admiralty Lands.*

DEPARTMENT OF THE INTERIOR,

ORDNANCE AND ADMIRALTY LANDS,

OTTAWA, 12th December, 1889.

## No. 7.

## ACCOUNTANT'S REPORT.

DEPARTMENT OF THE INTERIOR,  
ACCOUNTANT'S BRANCH,  
OTTAWA, 28th December, 1889.

A. M. BURGESS, Esq.,  
Deputy of the Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit the following report referring to the accounts of this Department for the year ending 31st October, 1889.

During the current year the work connected with this branch has increased with the general work of the Department. The accounts in connection with the expenses of Government for the North-West Territories are rapidly increasing; the school lands accounts, both for revenue and expenditure, which are under the control of this Department, have also considerably increased during the current year. I may be permitted to state that the accounts of this Department, now one of the most important of the Civil Service, are managed most economically, in view of the fact that the staff of this branch is composed of but 3 permanent and 4 extra clerks.

The receipts for the sale and rental of Ordnance lands for the Departmental year have been \$24,938.15.

Hereto annexed you will find a detailed statement of receipts on account of Dominion lands, showing the monthly revenue from all sources for the twelve months ending 31st October, 1889 :

Gross revenue in cash.....	\$232,854 04
Scrip redeemed and warrants located.....	318,555 59
Total .....	<u>\$551,409 63</u>

I have the honor to be, Sir,

Your obedient servant,

J. A. PINARD,

*Accountant.*

## STATEMENT of Receipts on account of Dominion Lands for the Year commencing 1st November, 1888, and ending 31st October, 1889.

Month.	Homestead Fees.	Pre-emption Fees.	Improvements.	General Sales of Lands.	Timber Dues.	Rents from Grazing Lands.	Royalty from Stone Quarries, Hay Permits, Mining Fees, &c.	Map Sales, Office Fees, &c.	Inspection Fees for Applications, &c., &c.	Surveyors' Examination Fees.	Rocky Mountains Park of Canada.	Miscellaneous.	Total.
1888.													
November.....	2,230 00	390 00	242 00	2,862 89	4,982 32	81 01	176 25	120 05	1,250 00		62 45	390 00	12,786 97
December.....	2,640 00	540 00	344 25	4,977 34	6,892 38	41 37	269 60	87 01	1,250 00		34 90	289 70	17,366 55
1889.													
January.....	2,530 00	490 00	483 89	4,983 57	8,880 53	58 10	251 40	62 10	1,450 00	10 00	319 75	25 00	19,544 34
February.....	2,100 00	420 00	112 77	4,093 26	13,623 89	432 87	82 05	126 60	1,250 00	20 00	65 05	80 00	22,412 49
March.....	3,050 00	540 00	321 00	5,957 35	4,184 49	14 52	77 95	171 50	1,840 00	40 00	68 15	132 00	16,306 96
April.....	5,050 00	1,930 00	273 25	4,165 07	5,169 84	87 67	90 70	148 85	2,570 00		91 65	112 00	20,289 03
May.....	4,710 00	1,420 00	211 75	4,586 01	4,245 97	296 20	188 45	130 55	2,356 56		65 40	34 00	18,244 89
June.....	6,490 00	2,920 00	301 50	6,353 92	5,376 14	324 90	388 45	100 35	3,250 94	30 00	142 05	187 75	25,876 00
July.....	6,320 00	2,160 00	404 50	5,679 19	3,544 26	99 73	1,062 70	102 06	3,325 00		209 90		23,447 34
August.....	3,580 00	1,040 00	211 75	4,963 49	4,240 57	148 08	2,803 55	157 78	1,750 00		259 12	205 00	19,459 32
September.....	2,360 00	700 00	485 07	4,632 19	2,989 03	30 63	874 48	154 32	1,795 00	20 00	116 50	100 00	14,457 22
October.....	2,810 00	810 00	273 50	4,002 92	12,074 41		327 35	227 25	1,907 50	30 00	110 00		22,572 93
Scrip and Warrants.....	44,670 00	13,360 00	3,635 23	57,293 20	76,203 83	1,635 08	7,222 93	1,588 40	23,995 00	150 00	1,544 92	1,555 45	232,834 04
Total.....				301,752 96		16,802 63							551,409 63

J. A. PINARD,  
Accountant.DEPARTMENT OF THE INTERIOR,  
OTTAWA, 28th December, 1889.

APPENDIX A.

STATEMENT of Entries affecting Dominion Lands, which were made at the Head Office and at the Agency of the undermentioned Colonization Company, during the year commencing the 1st of November, 1888, and ending the 31st of October, 1889.

Where Made.	Homesteads.		Pre-emptions		Special Grants.		Hudson Bay Company.		C. P. Railway.		Manitoba and North-Western Railway.		Manitoba and S.W. Western Railway.		North-West Coal and Navigation Company.		Total.	
	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.		
Head Office.....																		
The Temperance Colonization Society.....	10	1,600	3	322	55	6,095	10	74,159	315	101,927	37	16,283	17	3,712	69	39,937	503	242,113
Total .....	10	1,600	3	322	55	6,095	10	74,159	315	101,927	37	16,283	17	3,712	69	39,937	516	244,035

WM. M. GOODEVE,  
Chief Clerk, Patent Branch.

DEPARTMENT OF THE INTERIOR,  
LANDS PATENT BRANCH, OTTAWA, December, 1889.

## APPENDIX B.

ABSTRACT of Letters Patent covering Dominion Lands situated in Manitoba, the North-West Territories, and British Columbia, issued from the Department of the Interior between the 1st of November, 1888, and the 31st October, 1889.

No.	Nature of Grant.	1888-1889.		1887-1888.	
		Number of Patents.	Area in Acres.	Number of Patents.	Area in Acres.
1	Homesteads .....	1,568	246,380	1,731	269,464
2	Sales .....	911	176,533	999	175,425
3	Half-Breed allotments .....	68	16,320	66	15,840
4	Grants under Manitoba Act .....	17	1,715	28	2,553
5	Commutation right of common, &c .....	19	1,843	23	2,289
6	Special grants .....	44	6,164	37	4,629
7	Hudson Bay Company .....	5	1,679	20	26,973
8	Canadian Pacific Railway Company .....	323	108,210	270	122,310
9	North-West Half-Breed grants .....	30	5,667	54	9,302
10	Coal land sales .....	25	4,822		
11	Free wood lots .....			2	40
12	Manitoba and North-Western Railway Company grants .....	37	19,737	22	12,800
13	School land sales .....	10	2,052	8	1,480
14	Manitoba and South-Western Colonization Railway .....	16	3,748	7	1,203
15	North-West Coal and Navigation Railway Company .....	69	39,933	2	3,336
16	Mining land sales .....	6	681		
17	Forest tree claims .....	1	160		
18	Military bounty grants .....	2	320		
19	North-West Mounted Police grants .....	1	160		
20	Homesteads in British Columbia Railway Belt .....	57	8,495		
21	Sales do do do .....	30	3,222		
22	Military homesteads .....	41	12,794		
23	Leases .....	1	1,000	3	
24	Fore-shore rights .....	1	1	3	
	Totals .....	3,282	661,636	3,275	647,644

WM. M. GOODEVE,  
Chief Clerk, Patent Branch.

DEPARTMENT OF THE INTERIOR,  
LANDS PATENT BRANCH, OTTAWA, December, 1889.

## APPENDIX C.

STATEMENT showing number of Patents forwarded to the several Registrars for the Land Registration Districts of the North-West Territories, and number of notifications mailed to Patentees, from 1st November, 1888, to 31st October, 1889, inclusive.

Registration District.	Number of Patents sent Registrars.	Number of Notifications mailed to Patentees.
Assiniboia.....	758	705
East Saskatchewan.....	110	110
West do.....	15	15
North Alberta.....	33	33
South do.....	534	446
Totals.....	1,450	1,309

WM. M. GOODEVE,  
*Chief Clerk, Patent Branch.*

DEPARTMENT OF THE INTERIOR,  
LANDS PATENT BRANCH, OTTAWA, December, 1889.

## APPENDIX D.

STATEMENT showing the number of Deeds of Transfer recorded at Head Office, from the 1st of November, 1888, to the 31st of October, 1889, and the amount received as fees therefor.

			\$ cts.
Number of Deeds registered .....	260	Amount received as fees .....	492 00

WM. M. GOODEVE,  
*Chief Clerk, Patent Branch.*

DEPARTMENT OF THE INTERIOR,  
LANDS PATENT BRANCH, OTTAWA, December, 1889.

---

PART II.

---

DOMINION LANDS SURVEYS.

---





## No. 1.

## REPORT OF THE SURVEYOR-GENERAL.

DEPARTMENT OF THE INTERIOR,  
TECHNICAL BRANCH,

OTTAWA, 28th December, 1889.

A. M. BURGESS, Esq.,  
Deputy Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit the following report on the operations of the Technical Branch of the Department of the Interior during the year 1889.

The great drought which has affected the western part of the Continent for over a year made everything so dry that prairie and forest fires spread with an activity unknown before. Early in the spring they started in the Mountains of Montana, and soon British Columbia and the western part of the Territories were enveloped in smoke. The delay thereby occasioned to survey parties was very great; at times it was impossible to see further than a few hundred feet; several parties could not do any work for months, while others had frequently to stop their surveys, waiting till they could see the line pickets.

## MANITOBA.

At the request of a number of settlers, steps have been taken to extend the surveys around Lake Dauphin, principally in the direction of the valley between Duck and Riding Mountains. Dominion Land Surveyor Edgar Bray was instructed to establish the outlines of townships in that locality, and to pay particular attention to the places best adapted for farming. Some of his lines had to be cut through dense woods: it was therefore thought advisable to delay the commencement of operations until the fall of the year and to continue them throughout the winter. His report shows that there is a considerable area of first class land to be found near the Lake.

D.L.S. J. W. Fitzgerald subdivided one township near Whitemouth: he had also to make certain corrections found necessary to his former surveys in that locality.

D.L.S. N. R. Freeman retraced the lines of Townships 14 and 15, Range 8, East of Principal Meridian. These townships are in a low and wooded country and were among the first ones to be surveyed in Manitoba. Most of the marks of the original survey had disappeared.

D.L.S. C. P. Brown had a subdivision contract between Lakes Manitoba and Winnipeg, North of Shoal Lake: the land is low, but excellent for mixed farming.

## NORTH WEST TERRITORIES.

In view of the extension of the Manitoba and North Western Railway in the direction of Prince Albert, a party for the survey of township outlines in charge of D.L.S. McLatchie was sent to the White Sand River District early in the spring. The work was carried on throughout the summer and until late in the fall, the party returning only at the end of December.

The halfbreeds of Prince Albert District having made a petition for the survey into River Lots of the lands occupied by them, D.L.S. C. F. Leclerc was sent there during the winter of 1888-89, with instructions to lay out all the lands so occupied in that district. He made the survey to the satisfaction of all parties concerned,

[PART II]

3

but, owing to some misunderstanding, left out the Carlton Settlement. This was attended to later on.

D. L. S. J. L. Reid located the old trails from Fort a la Corne to Spence's Crossing, from Pahonan to Carrot River Settlement, and from Duck Lake to Batoche, for the purpose of transferring them to the Lieutenant Governor for the public uses of the Territories. He also renovated and corrected some old survey lines, and laid out into river lots the halfbreed settlement at Carlton, which had been left unsurveyed by D. L. S. Leclerc.

D. T. S. J. I. Dufresne had to establish the township outlines west of Muskeg Lake and Misko-wa-sis reserve, preparatory to the subdivision of the lands. Unfortunately, while in the discharge of his duties, he met with a severe accident by which he nearly lost his life, and his survey was thus suddenly brought to an end. He has not yet sufficiently recovered to leave Prince Albert.

D. T. S. W. T. Thompson located the trail from Qu'Appelle Station to Katepwe. The small wooden pickets used for marking the lots of the Battleford town plot having been pulled out by Indians during the Rebellion or having otherwise disappeared, D. L. S. R. C. Laurie received instructions to replace them. This will be done shortly.

The old trails from Fort Saskatchewan to Edmonton, and thence to St. Albert, were located by D. L. S. P. R. A. Belanger with a view to their transfer to the North-West Territories. He then proceeded to survey the settlements of Ste. Anne and Lake la Biche. The latter is the most northerly settlement in the North-West Territories: it is very satisfactory to find, according to Mr. Belanger, that the climate there is as good as it is anywhere in the Territories.

Sub-division contracts were let as follows:—

D. L. S. J. H. Brownlee was located in South-Western Manitoba, where a re-survey of four townships, nearly all settled, had been applied for several years ago. Difficulties of a legal nature delayed the work until last spring.

D. L. Ss. W. R. Burke, John Bourgeois, A. J. Brabazon, Thos. R. Hewson and F. Vincent had contracts on the proposed extension of the Manitoba and North-Western Railway, near the White Sand River. They all completed their work with the exception of Mr. Vincent, who fell sick before commencing his survey and had to return home.

D. L. Ss. C. G. Sheppard and F. W. Wilkins had contracts on Jack Fish Lake, North of Battleford. A few settlers have already located there and more will follow so soon as the lands are open for entry.

D. L. S. J. F. Ritchie subdivided a few townships or fractions of townships south east of Fort McLeod.

A triangulation of the portion of the Rocky Mountains under the control of the Dominion Government was commenced this year; the object is to provide a certain number of points from which sectional surveys may be started at any time. At present these surveys can only be made by producing township lines from the railway, so that, for establishing the position of a single claim, it may be necessary to run twenty or thirty miles of township lines. With inaccessible mountains blocking the way, this method is slow, expensive and inaccurate. By the system now adopted, the whole territory will be covered, at a very moderate expense, with a network of triangles, the summits of which being accurately fixed will afford a quick, convenient and economical way of extending the sectional surveys.

This work was under the direction of D. L. S. W. S. Drewry. His force was divided into three parties: he personally selected the positions of the triangulation points and built the signals, being assisted in doing this by his own party and another one in charge of an assistant. The angles were measured by the third party under D. L. S. L. A. Dufresne.

A base line of over a mile and a half in length was laid on the Cochrane flats in the Bow River Valley: the measurements were made with a 66 foot steel tape to which a uniform tension was applied by means of a spring balance.

The progress of the operations was very much delayed by smoke : little could be done until the end of August.

During his explorations, Mr. Drewry discovered a connection between the Vermillion Pass and the Ottetail Valley : it is quite possible that this may prove, on further examination, a better location for the Railway than the Kicking Horse Pass.

D. L. S. J. J. McArthur continued his topographical survey of the Rocky Mountains. So far, his work has only included the National Park and adjoining coal district, and has therefore been executed with great care and detail. In future, the operations will be carried out with greater rapidity. From present data, it is estimated that the cost should be less than one cent per acre. The first sheets of the maps are now being engraved and will soon be published.

#### BRITISH COLUMBIA

D. L. S. A. St. Cyr established the boundaries of the Railway Belt on the Columbia River below Golden, above and below Revelstoke, and on Shuswap Lake. For that purpose, he made a micrometer survey of the Columbia River from Golden around the Big Bend to Revelstoke and to the Southern Boundary of the Belt. He had two small wooden canoes and a party of three men. When last heard from he was on Shuswap Lake.

D. L. S. A. Driscoll subdivided lands in Kamloops District : the country being generally open does not offer serious difficulties for surveying, but the settlers are so scattered that much time is lost in travelling.

In New Westminster District two parties were at work in charge of D. L. Surveyors John Vicars and J. A. Kirk. Their surveys were of the same scattered nature as those in Kamloops District, but the heavy woods along the coast made progress very slow. Part of their time was occupied in correcting and extending the old Provincial Surveys, the other part in traversing the creeks or lakes and marking the boundaries of the Railway Belt.

#### INSPECTION AND CORRECTION OF SURVEYS

The Inspector of Surveys was, as usual, in charge of the examination of survey contracts in the field, and of the corrections to previous surveys. He had four parties under his direction.

The first party, under D. T. S. J. McAree, was engaged on correction surveys and examination of contracts in Manitoba. In the beginning of the season he laid out the settlement at Pine River on Lake Winnipegosis. Since then he has been constantly engaged in the field and is at the present time examining a survey contract at Whitemouth.

Another party, in charge of D. L. S. L. Gosselin, made a re-survey of the Second Initial Meridian. It was found that, owing to a misunderstanding among the several surveyors who worked in that vicinity, some small errors had crept in. These will be corrected, or the plans made to agree with the lines on the ground.

The Fourth Initial Meridian was renovated by D. L. S. E. W. Hubbell. This line runs through the driest part of the Territories, and the party experienced some hardship from the want of water.

In the McLeod Calgary District, D. L. S. C. F. Miles surveyed a portion of the Fifth Initial Meridian and effected several corrections to previous surveys.

#### OFFICE WORK

Owing to sickness among the clerks and to other causes the office work has somewhat fallen behind.

The correspondence was as follows :—

Letters received.....	888
Letters sent.....	1315

The accounts examined and payments made were :—

Accounts examined and passed.....	208
Amount of accounts.....	\$140,299.67
Cheques forwarded.....	889

The Chief Inspector of Surveys assisted me in the general supervision of the work of the Branch.

In addition to his other duties he made, with the assistance of Mr. Klotz, the preliminary calculations necessary for the determination of the limits of the Railway Belt. Details on the subject will be found in his report.

In the draughting room, the work was as usual of a varied character.

A map of the Railway Belt in British Columbia drawn on a scale of twelve and a half miles to an inch, in order to be uniform with our map of the North West Territory, was prepared for printing. Three sheets have also been compiled of a map of the Railway Belt in British Columbia on a scale of three miles to an inch, as small a scale as can be used to show the lots taken up under the Provincial land regulations. It will take altogether five sheets to complete this map : those finished represent the Eastern part of the Belt, the portion around Kamloops and the adjoining district to the West.

The map of New Westminster District, formerly published on a scale of two and a half miles to an inch, was corrected and revised up to the 1st October, for a new edition : this will serve to supply a map of that district in the meanwhile, until a new sheet on the three mile scale, uniform with those of the rest of the Belt, is compiled.

A map of the Kamloops District on a scale of two miles to an inch, not intended for printing, was also compiled, specially to show timber and grazing lands and lands taken up by settlers.

Among other miscellaneous plans prepared were those of the Park Reserves in British Columbia, and the Rat River Settlement.

Considerable progress has been made in the preparation of an index giving the names of the surveyors and dates of survey for both outlines and subdivision : this index will save much time and trouble in the office.

A schedule for notification to the Hudson's Bay Company of townships surveyed was completed on July 26th, and an account against the same Company for their share of the cost of surveys was completed on October 11th.

Tables of latitude and departure of a great part of the extensive micrometer traverses made by D. L. Surveyors Fawcett and Ogilvie between the 5th Meridian and Cumberland House have been made up in order to check the agreement of these surveys with that of the Saskatchewan by D. T. S. Klotz. This has involved finding the latitude and departure on more than 1600 courses : a result will soon be arrived at, and will be a valuable check on our maps.

Other miscellaneous work performed in the office includes the preparation of contracts for surveys with accompanying sketches, the revision and copying of reports, copying field notes, making descriptions for patents, and checking surveyor's accounts, as well as the considerable amount of work necessary in keeping the information derived from our surveys and surveys of the Timber and Minerals Branch and the Geological Branch in a form available for use in mapping.

The work in connection with the examination of survey returns, and the preparation of township plans has been carried on as usual.

Below is a synopsis of plans received, examined, &c., during the twelve months.

Plans received with corresponding field notes :—

Subdivision.....	128
Outlines.....	1
Road Surveys.....	19
Correction and Inspection.....	143
Settlements or Town Plots.....	2
Miscellaneous.....	40

Number of plans examined.....	204
Township plans compiled.....	77
Copies of township plans made by hand.....	71
Miscellaneous plans, sketches and diagrams.....	96
Miscellaneous tracings.....	72
Plans completed for printing.....	132
Proofs examined.....	145
Statutory declarations received.....	29
Progress sketches received.....	97

The photographer developed and printed the photographs required for the topographical survey of the mountains, made many copies, enlargements and reductions of maps, and had also a considerable amount of work from the Geological Survey.

A schedule is appended giving the details of the work of the lithographic office. It shows a total of 88,600 copies, all printed by hand.

#### BOARD OF EXAMINERS FOR DOMINION LAND SURVEYORS.

The Board has to mourn the loss of one of its members, Mr. P. N. Dorion. Mr. Dorion was one of the original members of the Board when first organized and was most regular in his attendance. His loss will be seriously felt.

Mr. J. I. Dufresne, Dominion Topographical Surveyor, of Montmagny, Que., was appointed to the vacant place.

Meetings of the Board were held in February and August 1889, and special examinations before one member of the Board in February and June.

The following gentlemen having passed the requisite examinations were granted commissions as Dominion Land Surveyor :—

Examined at Ottawa—

C. H. Pinhey, P.L.S., Ottawa, Ont.

Examined at Winnipeg before Mr. A. H. Whitcher—

H. G. Dickson, P.L.S., Selkirk, Man.

Mr. Geo. M. White, D.L.S. of Toronto, Ont. having passed the higher examination, was granted a certificate as Dominion Topographical Surveyor.

The correspondence of the Board amounted to :

Letters received.....	159
Letters sent.....	140

#### APPENDICES.

The following documents are appended :—

1. Schedule showing Dominion Land Surveyors employed during the year.
2. Schedule showing the work executed in the Lithographic Office.
3. Reports of the Chief Inspector of Surveys, Inspector of Surveys, and Surveyors in charge of parties.
4. Report of W. T. Thompson on survey in Peace River District (omitted at the time.)
5. Examination papers of the Board of Examiners for Dominion Land Surveyors.

I have the honor to be, Sir,

Your obedient servant,

E. DÉVILLE,

*Surveyor-general.*

SCHEDULE of Dominion Land Surveyors employed during the Year ending  
31st October, 1889.

Surveyor.	Residence.	Description of Work.
Dennis, J. S. ....	Ottawa, Ont. ....	Inspection and correction of Surveys.
McAree, John ....	Toronto, Ont. ....	do do do
Miles, C. F. ....	Walkerton, Ont. ....	do do do
Hubbell, E. W. ....	Ottawa, Ont. ....	do do do
Gosselin, Louis. ....	Quebec, Que. ....	do do do
Bray, Edgar. ....	Oakville, Ont. ....	Survey of Township outlines.
Fitzgerald, J. W. ....	Peterboro', Ont. ....	Sub-division of Township 10 in Range 10, east of the Principal Meridian.
Freeman, N. R. ....	Milton, N.S. ....	Sub-division of Townships 14 and 15 in Range 8, east of the Principal Meridian.
Brown, C. P. ....	Winnipeg, Man. ....	Sub-division of Townships 21 and 22 in Range 3, and 22 in Range 4, all west of the Principal Meridian.
McLatchie, John ....	Ottawa, Ont. ....	Survey of Township outlines.
Leclerc, C. F. ....	St. Jean, Port Joli, Que. ....	Survey of Half-breed settlements, Prince Albert District.
Reid, J. L. ....	Port Hope, Ont. ....	Survey of trails—Fort à la Corne to Spence's Crossing of South Saskatchewan—Pahonan to Carrot River Settlement—Duck Lake to Batoche—and survey of Township boundaries.
Dufresne, J. I. ....	Montmagny, Que. ....	Survey of Township outlines.
Thompson, W. T. ....	Qu'Appelle, Assa. ....	Survey of trail from Qu'Appelle to Katepwe, Assa.
Laurie, R. C. ....	Battleford, Sask. ....	Re-survey of Battleford town plot.
Belanger, P. R. A. ....	L'Islet, Que. ....	Survey of trail Fort Saskatchewan to Edmonton and thence to St. Albert, and River lots at Ste. Anne and Lac la Biche.
Brownlee, J. H. ....	Brandon, Man. ....	Sub-division of Townships 5 and 6 in Ranges 31 and 32, all west of the Principal Meridian.
Burke, W. R. ....	Ingersoll, Ont. ....	Sub-division of Townships 28 and 29 in Range 4, and part of 30 in Range 4, west of the 2nd Initial Meridian.
Bourgeois, John ....	Three Rivers, Que. ....	Sub-division of Townships 29 and 30 in Range 7, and Township 30 in Range 9, west of the 2nd Initial Meridian.
Brabazon, A. J. ....	Portage du Fort, Que. ....	Survey of town plot of Canmore and sub-division of Townships 29 and 30 in Range 8, and part of Township 28 in Range 8, all west of 2nd Initial Meridian.
Hewson, T. R. ....	Peterboro', Ont. ....	Sub-division of Townships 28, 29 and 30 in Range 5, west of 2nd Initial Meridian.
Sheppard, C. G. ....	Sorel, Que. ....	Sub-division of Townships 47 and 48 in Ranges 17 and 18, west of the 3rd Initial Meridian.
Wilkins, F. W. ....	Norwood, Ont. ....	Sub-division of Township 45 in Range 15, Townships 47 and 48 in Range 16, and Township 46 in Range 17, west of the 3rd Initial Meridian.
Ritchie, J. F. ....	Lethbridge, Alta. ....	Sub-division of Townships 3 and 4 in Range 20, Township 4 in Range 21, and parts of Townships 1, 2 and 3 in Range 24, Township 3 in Range 25, and Township 9 in Range 29, all west of the 4th Initial Meridian.
Drewry, W. S. ....	Belleville, Ont. ....	Triangulation of Railway Belt.
McArthur, J. J. ....	Aylmer, Que. ....	Topographical Survey of Rocky Mountains.
Saint-Cyr, A. ....	Quebec, Que. ....	Posting boundary of Railway Belt, B.C.
Driscoll, A. ....	Aylmer, Que. ....	Sub-division and other surveys, Kamloops District, B.C.
Vicars, John. ....	Cannington, Ont. ....	Sub-division and other surveys, New Westminster District, B.C.
Kirk, J. A. ....	Stratford Ont. ....	Sub-division and other surveys, New Westminster District, B.C.
Klotz, Otto J. ....	Preston, Ont. ....	Exploratory Survey.

E. DEVILLE.  
*Surveyor-General.*

SCHEDULE showing the work executed in the Lithographic Office during the year ending 31st October, 1889.

Months.	Maps.		Township Plans.		Circulars.		Forms.		Total.	
	No. of Maps.	No. of Copies.	No. of Plans.	No. of Copies.	No. of Circulars.	No. of Copies.	No. of Forms.	No. of Copies.	No. of Originals.	No. of Copies.
1888.										
November.....	2	140	16	880	1	50	5	2,809	24	3,879
December.....	1	50	30	1,650	1	150	8	1,521	40	3,371
1889.										
January.....	31	7,680	16	880	2	550	6	17,392	55	26,502
February.....	18	4,820	5	275	4	775	4	1,314	31	7,184
March.....	3	410	19	1,045	4	1,630	5	1,518	31	4,603
April.....	2	150	4	235	2	450	9	9,010	17	9,845
May.....	1	75	20	1,595	1	200	7	1,114	38	2,984
June.....	9	1,785	6	330	.....	.....	5	930	20	3,045
July.....	8	8,125	.....	.....	.....	.....	3	1,323	11	9,448
August.....	4	430	3	165	.....	.....	2	5,009	9	5,604
September.....	11	1,545	4	220	.....	.....	3	950	18	2,715
October.....	5	1,235	10	550	1	75	15	7,560	31	9,420
Total.....	95	26,445	142	7,825	16	3,880	72	50,450	325	88,600

E. DEVILLE,  
*Surveyor-General.*



## No. 2.

## REPORT OF W. F. KING, D.T.S., CHIEF INSPECTOR OF SURVEYS.

DEPARTMENT OF THE INTERIOR,

TECHNICAL BRANCH,

OTTAWA, 13th December, 1889.

SIR,—I have the honor to submit my report on survey operations during the past year.

Since the date of the last annual report, I have not performed any field work, the astronomical determinations of positions having been temporarily stopped. I must therefore confine myself to a short account of the work performed by me in the office, with a few words regarding the surveys in the field.

During the greater part of last winter, I was engaged in the calculations of the longitudes observed during the season of 1888. The manner of making and reducing the observations I have discussed in my reports for the years 1887 and 1888, and some of the results, as to personal equation, instrumental constants &c, were given in the latter report. The final results, viz. the longitudes of the various stations at which observations were made, cannot be given, as they depend upon the longitude of Winnipeg, which is subject to a large uncertainty, and until this longitude is known the publication of the results would be misleading.

Afterwards I was engaged in the calculation of the limits of the Railway Belt in British Columbia. In this I was assisted by Mr. Klotz, who, in his report, gives the method adopted in making the calculation. The reason of the intricacy of the calculation may be explained thus:

The limits of the belt are to be twenty miles from the Canadian Pacific Railway. If this railway were a straight line on a plane surface, the line 20 miles from it would be a parallel straight line, and it would be very easy to determine its intersections with section or other lines, and to tabulate the positions of these intersections for the use of surveyors in the field, who would have merely to survey these section lines and to plant their post to mark the limit when they arrived at the given point of intersection. Or if the line were an arc or arcs of circles on a plane surface, having radii greater than the distance apart of the lines (20 miles), the limits would then be arcs of circles about the same centres as the arcs forming the railway line.

But since these arcs have radii much less than twenty miles (not more than a few thousand feet at most) the radii cross one another on the concave side of the curve before they reach the limit, and the resulting arc of the belt limit will fall nearer to the railway line than the arc similarly drawn from the adjacent curves of the railway, and therefore will not be the true limit of the belt. Only on the convex side of the curve will the arc described as above form the limit.

It is necessary therefore to make a plot, or to perform a calculation equivalent to plotting, of all these curves, and to exclude those which fall in the above manner within the belt limit, since this limit must not be less than twenty miles from the nearest point of the railway.

The calculation, however, is rendered much more difficult by the fact that the railway, although a series of straight lines and circular curves, does not lie on a plane surface, but on a spheroidal one. For the parallel to a straight line (*i.e.*, a great circle) becomes, on such a surface, a small circle, or a circular curve on the ground. The parallel to the arc of a circle becomes the arc of another circle not having the same centre, or, rather, it becomes a *geodetic circle*. The calculation of

the limits with these refinements of geodesy is impracticable, on account of the great number of curves (nearly 6000) which have to be computed.

The best that can be done is, when certain points have been determined by the method given by Mr. Klotz, to plot them on township diagrams, and connect them by curves of the proper radius. Then rejecting those curves or parts of curves which fall nearer the railway line than others, to tabulate the positions, with regard to section, township, and range, of the various intersections of the outer curves, as well as the radii of the arcs between them, and the positions of the centres of these arcs.

The surveyor being on the ground in the vicinity of some of these tabulated points will then know that between such and such points the limit is an arc of given centre and radius, and can readily determine his actual distance from that centre, and thence how far he is from the limit.

It is needless to say that the calculation is very long and tedious; that portion of it described by Mr. Klotz is but a small part of the work.

Mr. Drewry has been engaged on the triangulation survey in the Rocky Mountains. In his report will be found a full description of the work performed. Unfortunately much time was unavoidably lost by the dense smoke which prevailed in the mountains during a great part of the summer, but nevertheless the triangulation was successfully inaugurated and a large tract of country covered.

In the mountain region, there are often fertile valleys, mineral deposits, or tracts of forests, distant from the railway line, and not readily accessible therefrom except by circuitous routes, but yet valuable. There are no means at present of connecting the survey of these tracts with the general system other than by making long, circuitous, and very expensive surveys to the points established by the traverse of the railway line. The stations of the triangulation are marked by large and not easily mistakeable cairns on the summits of the most prominent peaks. Other and intermediate marks are left by the surveyor engaged in filling in the topography. It will be easy for a surveyor to locate himself, whenever he can see three cairns at once, by measuring the angles between them; or one cairn will be sufficient if he makes a triangulation and takes an azimuth observation. For many purposes probably a sufficiently accurate location can be effected by compass bearings on the cairns.

Much advantage will also be indirectly obtained from this survey by the exploration of trails and passes, as well as the discovery of minerals and other natural resources.

Mr. McArthur has been engaged on the photo-topographic work in the mountains. His camera stations are fixed by subsidiary triangulations based on the stations of the main triangulation. Being thus relieved of the work of making a continuous triangulation, he has more time to devote to the accurate filling in of the topographic details. The advantage of the topographic method adopted is shown by the fact that an accurate survey on the scale of 1:20,000 is made with but a small party at the rate of 300 to 400 square miles a season. During last summer, deducting the time lost by smoke and storms, in 70 days Mr. McArthur covered 350 square miles, an average of 5 square miles a day. Capt. Wheeler of the U. S. Engineers in his report on the Geographical Congress states that in the plane-table surveys made in Europe the speed averages from one-half to one square mile per day, for surveys made on the scale of 1:20,000. These surveys are made in comparatively level country, and the method would be altogether impracticable in mountains, except at vast expense and difficulty. On the other hand, the photographic method is not well adapted to a level or a wooded country.

In connection with Mr. Drewry's triangulation, I beg to point out that all the distances depend upon the length of the steel band with which he measured his base line. The exact length of this band is not known, and there appears to be in Canada no means of finding it. This is an important matter, as year by year our surveys are extended further, and an inaccuracy in the standard measure affects all the work done.

---

I need not speak here of the inspection and correction surveys, as they will be fully treated of by Mr. Dennis, under whose supervision they have been.

I have the honor to be, Sir,

Your obedient servant,

W. F. KING,

*Chief Inspector of Surveys.*

E. DEVILLE, Esq.,  
Surveyor General,  
Department of the Interior.

## No. 3.

## REPORT OF OTTO J. KLOTZ, D.T.S.

## COMPUTATION OF LIMITS OF RAILWAY BELT IN BRITISH COLUMBIA.

PRESTON ONT., 9th, December 1889.

SIR,—I have the honor to submit the following report.

The first part of the year was spent in finishing the astronomic computations of the previous season's work.

Thereafter I was engaged on the computation of the position of the limits of the railway belt in British Columbia.

By the Imperial Order in Council of the 16th May, 1871, British Columbia conveys in trust to the Dominion ".....not to exceed twenty miles on each side of said line," (railway line).

"Twenty miles on each side of said line" is a simple and unequivocal description of the railway belt. Its demarcation on the ground, however, irrespective of mountains, is by no means so simple.

In 1885 and 1886 the Dominion Government had an accurate azimuth survey made of the line of the railway through British Columbia.

This survey was adjusted to the astronomic determinations of latitude and longitude, made for this purpose at Port Moody, Kamloops, Revelstoke, and Field.

From this adjustment resulted the position of the railway with reference to the section, township, and range lines of Dominion lands projected over the railway belt; and the position of every point of the line of railway from the neighboring north and east section lines became known.

The foregoing furnished the data of computation of the limits of the railway belt.

The first step in the latter computation was to ascertain the position, with reference to the system of Dominion lands, of the extremity of the radius of 20 miles extending at right angles successively to the courses of the railway, and beginning at each course.

From the azimuth of the chord of the line of railway was obtained the direction of the 20 mile radius. This was then resolved into its equivalent of latitude and longitude, in terms of townships, sections, and chains, and ranges, sections, and chains, respectively, due regard being had for the curvature of the earth. This latter result was combined with the known position of the corresponding point of the railway, and by a long and tedious computation evolves one of a series of points, referred to the co-ordinates of Dominion lands.

Many of these points will fall, however, *inside* of the railway belt, although distant 20 miles from the particular point of the railway line from which they have been computed.

The railway belt resolves itself into this: "that tract of land lying on each side of the line of railway; the distance from any point on the limit of said tract to the nearest point on said line of railway shall be 20 miles."

When we take into account the curving of the railway, a little consideration will show that the extremity of a 20 mile radius at right angles to the railway will not necessarily give a point on the limit of the railway belt.

The railway belt is the area covered by a radius of 20 miles moving at right angles to the line of railway on each side thereof; but in its motion following the various curves, it is continually swaying backwards and forwards in its general forward motion; thereby making complicated intersections on the limits of the railway belt.

These intersections must be computed ere surveyors can be sent to establish the limits on the ground.

There are very nearly six thousand positions of termini of radii to compute for the railway belt in British Columbia corresponding with half that number of survey stations on the line of railway.

To give somewhat of an idea of the labor entailed in computing such points, a copy of the abstract of the computation for one point is given.

BOUNDARIES OF 20 MILE BELT.

$K = 1,600$  chains.

STATION.	Bearing of Radius.	K Cos Z.	Corr.	K Cos Z. —Corr.	K Cos Z. +Corr.	K Sin Z.
		Chains.	Chains.	Chains.	Chains.	Chains.
121.....	347° 86	1,564·26	0·22	1,564·04	1,564·48	+336·30

In order to determine the latitude of the extremity of any 20 mile radius, we apply the vertical element K Cos Z, after correcting it by the quantity given in the fourth column, headed Corr.

This latter quantity expresses in chains the distance that K Cos Z, falls below the parallel passing through the extremity of the radius, and is found by the formula:  
 $Corr. = \cdot 00000196 (K \sin Z.)^2$

in which

$K = 1,600$  chains (20 miles)  
 $Z =$  azimuth of radius.

K Cos Z—Corr. gives the meridian ordinate to the north.

K Cos Z + Corr. gives the meridian ordinate to the south.

K Sin Z is made + when to the west, and—when to the east.

20 Mile Belt Computation—British Columbia. North Side.

Station No.	K Cos Z. —Corr. Ch.	T. S. Ch.	Station T. S. Ch.	Q. T. S. Ch.	K Sin Z. Ch.	Converg Ch.	R. S. Ch.	Station R. S. Ch.
121	1,564·04	3-2-45·96	27-6-48·96	31-1-14·42	+336·30	-1·13	0-4-11·17	18-0-22·01

Station reduced to Corr. Line.	Jog Ch.	Station reduced to Corr. Line.	Converg Ch.	Q. R. S. Ch.	Point in R. S. Ch.	RESULT.			
						S. T. R.	Mer.	Northing Ch.	Easting Ch.
18-0-21·88	67·16	17-5-36·03	—·01	17-5-36·02	18-3-47·19	4-31-19	5	14·42	47·19

The following is an explanation of the nineteen columns of the Computation sheet:—

Column 1.—Gives the number of the azimuth survey station on the line of the railway.

Column 2.—Expresses in chains the meridian ordinate to the north.

Column 3.—In this, T. S. shows the nearest number of townships and horizontal tiers of sections greater than K Cos Z—Corr., and Ch. shows in chains the excess of

T. S. over K Cos Z—Corr.; or in other words, how far the northern extremity of K Cos Z—Corr. is from the northern limit of the section in which that extremity is situated.

Column 4.—This gives the position in latitude, expressed in terms of the system of Dominion lands, of the azimuth survey station on the railway; the S. indicating the horizontal tier of sections, beginning at the south side of the township, in which the station is situated; and the Ch. the number of chains it is distant from the north side of that tier of sections.

Column 5.—Is the addition (or subtraction) of the two preceding columns. If the sum of the chains is greater than  $80^{\circ}50$ ,  $80^{\circ}50$  must be subtracted and S. reduced by one section.

Column 6.—Expresses in chains the easting or westing of the extremity of the radius from the survey station on the railway.

Column 7.—Expresses in chains the convergence of meridians with arguments, distance of Q from base line, and K Sin Z.

Column 8.—Is the addition of the two immediately preceding columns, expressed in ranges, sections and chains.

Column 9.—Gives the position in longitude of the survey station on the railway, in terms of ranges, vertical tiers of sections, and chains west of the initial meridian.

Column 10.—Is the position given in column 9 reduced on the meridian to the correction line intervening between Q and station.

Column 11.—Gives the jog on the correction line at the reduced position of the station.

Column 12.—Gives the position of the station referred to the north (south) side of correction line.

Column 13.—Gives the convergence of meridians for the distance expressed by chains in the last column to bring it to Q.

Column 14.—Is the addition of the last two columns, and gives the position of Q in ranges, tiers of sections, and chains on the parallel of Q west from the initial meridian. The point Q is on the meridian of the survey station, and distant therefrom K Cos Z—Corr.

Column 15.—Is the addition of column 14 and column 8, and gives the position (in longitude) of the point or extremity of the 20 mile radius on the belt limit.

In the example given, the interpretation of column 15 is: The point is distant from the initial meridian, measured westward along the parallel of the point, 18 ranges 3 sections and  $47^{\circ}19$ .

We have now the position of the extremity of the 20 mile radius on the belt; expressed in latitude by giving the number of townships and tiers of sections from the first base line or International boundary, the chains given expressing the distance of the point south from the north limit of the tier of sections in which the point is situated; and expressed in longitude by giving the number of ranges, tiers of sections and chains from the initial meridian. Hence nothing remains to be done but to combine these expressions and give the distinctive number of the section, township, and range, in the system of Dominion lands.

The township number as given in column 5 for Q will be the same for the extremity of the radius; the number for the range will be greater by one than the range number given in column 15; for as the point is a certain number of ranges and sections west of the initial meridian, it follows that it must be in that range of the Dominion lands expressed by the number greater by one than the number in column 15.

The number of the section is found by knowing the horizontal and vertical tiers in which the section lies, counting from the south and east of the township respectively.

Column 16.—This gives the particular section, township and range in which the extremity of the 20 mile radius on the railway belt is situated.

---

Column 17.—Shows the initial meridian from which the ranges are numbered westward.

Column 18.—Gives the distance of the point from the north side of the section.

Column 19.—Gives similarly the distance from the east side of the section in which the point is.

The computation of these six thousand points will occupy one person nearly a year.

Hereafter those points which fall *inside* of the railway belt, for reasons already pointed out, will have to be eliminated; and the intersections of the line, described by the extremity of a radius of 20 miles, moving at right angles to the line of railway with itself be determined.

This will again entail considerable complicated work, ere full data can be given to the surveyor for locating the limit of the railway belt on the ground.

There will undoubtedly be many parts of the limits of the railway belt impossible or at least impracticable to define on the ground, from the mountainous character of the country; yet in the computations every point must be determined, as no *a priori* elimination of any point can be made.

All of which is respectfully submitted.

I have the honor to be, Sir,

Your obedient servant,

OTTO J. KLOTZ, D.T.S

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa.

## No. 4.

DEPARTMENT OF THE INTERIOR,  
TECHNICAL BRANCH,

OTTAWA, 17th December, 1889.

SIR,—I have the honor to submit my annual report regarding the examination and correction of surveys, and in relation to the general surveys of this branch under my charge.

The distribution of the season's field work having been completed, under instructions from you, dated the 9th of May, I proceeded to Winnipeg, reaching that point on the 16th.

Before leaving headquarters the corrections to existing surveys, which it was proposed to effect during the season, had been divided as nearly as possible into four districts, and the parties who were to be engaged on this work were distributed as follows:—

The work in Manitoba and the eastern portion of Assiniboia was allotted to Mr. John McAree, D.T.S.

The investigations and corrections on the Second Initial Meridian, and in townships adjoining the same, were allotted to Mr. Louis Gosselin, D.L.S.

A re-survey of a portion of the Fourth Initial Meridian and of townships comprising subdivision contract No. 9 of 1886 was undertaken by Mr. E. W. Hubbell, D.L.S.

Mr. D. L. S. Miles was to re-survey a portion of the Fifth Initial Meridian, and to effect other corrections required in the south-western portion of the Territories.

Instructions were also issued to Mr. D. L. S. Reid covering required corrections to existing surveys in the Prince Albert District.

At Winnipeg I was joined by all the above named gentlemen, and I remained there until the 24th May, the time being spent in preparation of instructions for the surveyors who were to effect correction surveys in Manitoba and the eastern portion of Assiniboia, in arranging for the manufacture and shipment of the iron bars needed in marking the season's surveys, and in the purchase of certain horses, supplies, etc. Further instructions were also issued at this time to Messrs. McLatchie and Belanger, Dominion Land Surveyors, in relation to the work they had in hand.

Proceeding to Calgary I arrived there on the 25th May, this point being my headquarters for the season. I was very kindly given office room in the office of Mr. Wm. Pearce, Superintendent of Mines.

I now issued the necessary instructions to Messrs. Miles and Hubbell, who had accompanied me to Calgary, and arranged for the transport required by them.

I remained in Calgary until the early part of June, when I returned to Winnipeg, meeting Mr. D. L. S. Gosselin at Moosomin for the purpose of giving him some further explanations regarding his instructions.

After my return to Calgary, and in the latter part of June, I made several trips to Canmore, in relation to surveys needed at that point, and also accompanied Mr. Drewry to Morleyville, and consulted with him and Mr. McArthur in relation to the employment of their parties during the delay, owing to dense smoke, in the work they had in hand.

Early in July I visited Mr. Miles, who was at work on the Fifth Initial Meridian in the Porcupine Hills, and after returning to Calgary I began the survey of "the old Mission Trail," lying south of the Elbow River and west of Calgary. I carried on this work from time to time during the season when office work permitted.

On the 1st of August I left Calgary and proceeded to Churchbridge, a point on the Manitoba and North-Western Railway, near where I met Mr. Gosselin, and after consulting with him regarding difficulties met with in carrying out his instructions, I issued new instructions for his guidance.

Leaving Calgary again on the 5th of September, I proceeded to Medicine Hat: there I met Mr. Hubbell, and accompanied him to the mouth of the Red Deer River,



where he was then at work on the 5th Initial Meridian. Returning to Medicine Hat I made a trip in company with Mr. Pearce to the Kootenai, or "Waterton" Lakes, and there met Mr. Miles, who was engaged in subdividing the available portions of Townships 1 and 2, in Range 29, west of 4th Initial Meridian, these being the townships in which the discovery of petroleum had been made, and in which a large number of claims had been staked out.

On my return to Calgary from the last mentioned trip I remained in the office a few days, and then proceeded north and completed a re-examination of townships comprising subdivision contracts numbers 7 and 14 of last season. A special report in regard to this examination will be submitted.

I returned to Calgary on the 11th of October, and remained there until the 15th, when I left for British Columbia. At New Westminster I met Messrs. Kirk and Vicars, D.L.S., and discussed with them certain matters relating to the surveys they were then engaged on in that district. I have already reported to you in reference to this and other matters attended to while in British Columbia.

I reached Calgary on my return trip on the 20th, and leaving again on the morning of the 22nd I returned to Ottawa, reaching home on the 27th, having during the season travelled some 7,000 miles by rail, and 1,050 miles with horses.

While at headquarters at Calgary during the summer my time was fully occupied in attending to correspondence and the general survey matters requiring attention. These need not be referred to here, as full reports were duly forwarded from time to time during the season.

The reports of the gentlemen engaged on correction surveys, which are being forwarded to you direct, will give full particulars regarding the work accomplished by them.

#### EXAMINATION OF SURVEYS.

Eleven subdivision contracts were let this season, covering 28 townships. These, together with some 17 townships in subdivision contracts of last year, which were completed too late to allow of an examination being effected during that season, made 45 townships in which it was necessary to carry on examinations or verification surveys. This work was accomplished by Messrs. Miles, McAree, McLatchie and Reid, D.L.S. The full reports regarding these examinations, accompanied by the usual illustrating sketches, and field notes, will be duly forwarded.

From general reports received I am glad to be able to say that the work in the subdivision contracts of this season seems to have been well and carefully performed.

The townships subdivided this year, excepting those in contracts 1 and 2, east of Winnipeg, are all well adapted for settlement. The townships covered by contract number 5 in South-western Manitoba are somewhat broken, but being on the line of the Souris branch of the Canadian Pacific Railway, are likely to be in demand for settlement at an early date.

Contracts numbers 6, 7, 8, 9 and 14 covered townships at Beaver Hills, on the line of the extension of the Manitoba and North-Western Railway, and the district subdivided is a very fine one.

The townships comprising contract 3 are situated on the Milk River ridge, south of Lethbridge. They are somewhat broken; but being on the line of the proposed extension of the North-West Coal and Navigation Company's Railway, and in the vicinity of the rapidly growing Mormon colony, they are likely soon to be in demand either for settlement or grazing.

It is popularly supposed that the larger portion of the desirable part of the North-West Territories has been subdivided; at least, I have heard such opinions expressed. This is of course an erroneous idea: a glance at our general map of Manitoba and the Territories will show that, while the belt of country extending for some distance on both sides of the main line of the Canadian Pacific Railway has been subdivided, and the larger portion of the remainder of the country south of the North Saskatchewan River has been outlined into townships, only a comparatively small portion of the Northern or Saskatchewan district has been subdivided.

This latter district is particularly well adapted for settlement, there being in most parts an abundance of wood and water, and the soil in the larger portion of the district is excellent.

The Northern or Saskatchewan portion of the Territories will make rapid strides in the way of settlement so soon as the railway communication, which is about to be afforded by the construction of the Regina and Long Lake Railway, is available for the transport of immigrants and their effects.

The centres now existing at Prince Albert, Battleford, Edmonton, and other points in this district will grow rapidly, and an active demand for agricultural holdings will follow, necessitating the subdivision in the near future of a number of townships in that part of the Territories.

The past season was a very unfavorable one for surveying operations. During June, July and August heavy fires raged throughout the timbered portion of the Rocky Mountains; and at times the smoke was so dense on the eastern slope of the mountains, and as far east as the 4th Initial Meridian, that it was impossible to see any distance, and many of the parties working in the western district were seriously delayed from this cause.

Throughout the greater portion of Manitoba and the Territories the rainfall was very light, and as a consequence great scarcity of water was experienced. This was notably the case in that portion of the country traversed by the section of the 4th. Initial Meridian, upon which Mr. Hubbell was working. Surveying parties have many hardships and inconveniences to put up with, but the most serious of all is the want of water. Mr. Hubbell's report shows the suffering experienced by his party from this cause, and credit is due to him for having successfully carried on his operations in spite of such obstacles.

Mr. Gosselin was also somewhat retarded owing to the want of water; and the extreme dryness of the season will be readily understood when attention is drawn to the fact that, when the original survey of the 2nd Initial Meridian and adjoining townships was being carried on, much inconvenience was experienced owing to the numerous swamps and great quantity of water everywhere.

In accordance with your authority all the subdivision surveys of this season were marked with a post and mound only, the tin being discarded.

The posts used are somewhat larger than those used with the tin, and the necessary marking is put on the post itself with a file or cold chisel. The great trouble and complaint regarding inability to distinguish the positions of posts, owing to the tins having been lost or removed, will now be obviated.

Although the first cost of these larger posts is slightly greater than the posts and tins, I feel confident that the surveys will be much more permanently marked by using the larger posts.

I would respectfully draw attention to a suggestion made to me by Mr. D. L. S. McLatchie in one of his reports during the summer, and in regard to which he has, I understand, reported to you, viz. that iron posts and mounds should be placed at all corners in wooded country, where at present wooden posts and bearing trees are placed. I am very much in favor of the adoption of Mr. McLatchie's suggestion. Its advantages are obvious. The larger portion of the wooded district of the Territories is covered with timber of comparatively small growth, and this timber is subject to almost annual fires, which in many cases completely destroy the wooden posts and bearing trees.

The iron posts and mounds would not be affected by these fires; and the additional cost, if any, in first surveying a township, is trifling in comparison with the value of the permanent marking secured.

Mr. McLatchie found great difficulty in locating many of the points marked by posts and bearing trees on some of the old lines examined by him; and during the past two seasons we have re-surveyed townships owing to the first posts and bearing trees being entirely obliterated by fires.

It seems like formal repetition to speak each year of the progress noted in the prominent points in Manitoba and the Territories, and in the country generally; but

this progress is so marked and noticeable, particularly to those of us who visit the country annually, and who have seen the wonderful—for they are really wonderful—strides made during the past fifteen or sixteen years, as to warrant mention.

In those places passed through in travelling along the main line of the Canadian Pacific Railway, and also on the branches of this road, and on the Manitoba and North-Western Railway, each year sees a marked growth and improvement—a few new buildings here, graded streets and sidewalks there, new faces at all points; and a general air of solid growth is fast removing the appearance of newness, which many centres had not long since.

The same may be said of the country generally. I see a large portion of both Manitoba and the Territories during each of my annual visits, and have been struck during the last two seasons with the general improvement in the character of farm buildings, fences, etc.

In closing this report I would bear testimony to the satisfactory manner in which the correction surveys were performed by those gentlemen working under my immediate instructions, and also to the ready and prompt way in which all instructions issued by me to any of the Surveyors employed by the Department were carried out.

The usual schedule shewing correction surveys effected during the season is appended.

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

J. S. DENNIS,  
*Inspector of Surveys.*

E. DEVILLE, Esq.,  
Surveyor General,  
Department of the Interior.

## SCHEDULE of Correction and Examination Surveys performed during Season of 1889.

Township.	Range.	West of	By whom Performed.	Description of Work done.
2nd Initial Meridian			L. Gosselin....	The Meridian was re-traced and re-measured from the north boundary of Township 18 to north boundary of Township 27, and a portion of each township chord closing on the Meridian was re-surveyed and closings checked; the closings of certain section lines in each township were also checked.
18	31	1	do .....	Posts and mounds on both sides of Correction Line moved to correct position.
18	32	1	do .....	do do do
18	33	1	do .....	do do do
33	1	2	do .....	Posts on 2nd Initial Meridian changed from old to new system.
34	1	2	do .....	do do do
4th Initial Meridian			E. W. Hubble...	The Meridian was re-traced and re-measured from the north boundary of Township 20 to the north boundary of Township 48, mounds were rebuilt, and mounds of old system removed. The posts and mounds were offsetted between the 11th Base and 11th Correction Line to provide for jog in Meridian.
21	29	3	do .....	This township was re-subdivided.
22	29	3	do .....	do do do
42	1	3	J. L. Reid.....	The north and south boundaries of this township surveyed and marked
42 A	1	3	do .....	Northern boundary surveyed and marked.
49	1	3	do .....	Subdivision of portion of township south of North Saskatchewan River.
44	4	3	do .....	River lots surveyed.
44	5	3	do .....	do do do
22	4	1	John McAree...	Eastern boundary surveyed.
18	5	1	do .....	Northern do
19	10	1	do .....	Southern do
18	10	1	do .....	Northern do
6	3	E of 1	do .....	Eastern do
8	25	W of 1	do .....	do do do
4	6	1	do .....	do do do
13	10	1	do .....	Portion of township subdivided.
16	22	1	do .....	Lake in Sections 27, 33 and 34 traversed.
19	26	1	do .....	Portions of south half of Sections 13 and 14, originally in Indian Reserve, surveyed and marked.
Main trail Morris to International Bdy			do .....	Posts omitted in original survey of this trail were placed.
16	16	1	do .....	Examination of reported errors in positions of posts.
5th Initial Meridian			C. F. Miles.....	This Meridian was re-surveyed from the 7th to the 3rd Bases.
12	29	4	do .....	Township re-subdivided.
12	30	4	do .....	do do do
8	22	4	do .....	N.W. $\frac{1}{4}$ Section 3, formerly in Blood Indian Reserve, surveyed.
6	1	5	do .....	Road surveyed in Sections 18 and 19.
5	30	4	do .....	Portion of township subdivided.
7	28	4	do .....	Sections 7 and 18, formerly in Piegan Indian Reserve, surveyed.
4	28	4	do .....	Eastern boundary re-surveyed.
2	25	4	do .....	Interior Meridian do

J. S. DENNIS,  
Inspector of Surveys.

## No. 5.

## REPORT OF J. McAREE, D.T.S.

CORRECTION SURVEYS IN MANITOBA, 1889.

WHITEMOUTH, MANITOBA, 23rd December, 1889.

SIR,—I have the honor to submit the following general report of my past season's work on Correction and Inspection Surveys in the Province of Manitoba.

Upon my arrival in Winnipeg on the 23rd of May I reported to Mr. Dennis, and began preparations for the trip to Pine Creek, on Lake Winnipegosis, to lay out lots for the settlers there.

After obtaining the best information available, I decided to go by the west shore of Lake Manitoba. Accordingly, with two horses, a cart and buckboard, and accompanied by one man, a start was made from Winnipeg on 28th May, and, passing through Portage la Prairie and Westbourne, we took the trail along the west shore of Lake Manitoba and arrived at Manitoba House on 4th June. From Sandy Bay the trail was in a very bad condition, there being no choice between the loose sand of the lake shore and the boggy soil of the track inside. On our return some five weeks later the inside track was tolerably good. No canoe being obtainable at Manitoba House, we took passage on a boat of the Hudson's Bay Company, going to Pine Creek with supplies for the post there, and reached our destination on 11th June, having met with unfavorable winds during most of the voyage. The settlers at Pine Creek are French Halfbreeds, chiefly from Duck Bay, Lake Winnipegosis, or from St. Laurent, Manitoba, and Indians on the reserve. All subsist, to a greater or less extent, by hunting and fishing, and the employment afforded by the fur trade, although some have cattle, and nearly all cultivate some potatoes.

Marshy land, yielding an inferior grass and hay, is found in considerable areas along Pine Creek, and a large amount of stock might be kept. These open, grassy tracts, which appear in nearly every instance to be of a marshy character, are the result of the saline quality of the soil, in every case due probably to the percolations from brine springs. The vents of some of these springs were pointed out in the marsh at one place by the natives. The springs were then dry, but I was shown a sample of water from a shallow excavation in the cellar of one of the houses, which, although quite clear and icy cold at that season, tasted like a strong solution of common salt.

Outside the grassy areas, all is forest, consisting of poplar, spruce, white birch and tamarac of good size. There is no true prairie.

The soil of the woodland appears to be very good, and would no doubt produce abundant crops under cultivation.

Pine Creek itself, from its mouth to the rapids a little above the Hudson's Bay Company's post, is a somewhat sluggish stream, with an average width of about two chains. It enters Lake Winnipegosis through marshy land, which extends along the left bank with gradually diminishing breadth, almost to the rapids, but ends on the right bank before the south boundary of the Indian Reserve is reached. Above the rapids the stream is about a chain wide. The Hudson's Bay Company have a trading post at Pine Creek, as have also Messrs. Hartmann & Co. Bears, other fur-bearing animals, and moose, are still comparatively plentiful in the adjacent territory. Revd. Father Dupont has for several years resided here in the capacity of parish priest and missionary to the Indians, and during the past winter has got out hewn logs for the erection of a church, which was to have been built this summer. He has had a school for the Indian and Half-breed children in operation a considerable time. The reverend gentleman has the only garden. The cultivation of grain has not yet been attempted in the settlement.

I found nine lots to be sufficient for the requirements of the settlers at present. There are a greater number of families than this, but owing to the fact that there are three natural frontages, viz., the shore of Lake Winnipegosis, and the two banks of Pine Creek, the houses were so crowded that in some instances I found it impossible to lay out the lots, so that no single lot should have more than one house upon it. This is easily seen from the plan.

Little or no dissatisfaction was caused, however. The lots have an average area of about 160 acres, with a normal depth of about 160 chains; they are staked off along a base line in the usual manner of river lots, and the system abuts upon the Indian Reserve, with the usual road allowance of 1 chain between the two surveys.

Besides laying out the lots, I located the trail across the settlement.

The survey having been completed, being uncertain when there would be a chance of returning to Manitoba House by boat, and being unable to make any satisfactory arrangement about a canoe, I engaged a team, and taking the Indian trail towards Riding Mountain, by the west of Lake Dauphin, I arrived at the Half-breed settlement on Turtle River, a few miles from the south end of Lake Dauphin, where I expected to get conveyance to Manitoba House. All the horses of the settlement were absent, however, and I was obliged to wait several days before starting again. Manitoba House being at length reached, we resumed our journey with our own horses which had been left in charge of a settler, and reached Winnipeg on 10th July.

Procuring three additional horses and carts, and otherwise completing my outfit, and being now joined by my assistants, I left Winnipeg on 15th July for the regular work of the season. I had three assistants, one laborer and a cook, five horses, four carts and a buckboard.

My first work was to run the east boundary of Township 6, Range 3, east of Principal Meridian. We found that this line had been run at one time, and as the land was occupied I, according to my instructions, did not change any of the corners, but put in new posts.

My next work was putting iron posts in the mounds along the (west) side of the trail from Morris to the international boundary, surveyed by Mr. McPhillips, D.L.S., in 1886. These posts were of the length required for section corners, being made of  $1\frac{1}{2}$  in. gas pipe. They are numbered consecutively along the trail, beginning at Morris. In addition to its number each post bears the letter "R" on the side next the trail. The number of the post at the international boundary is "124," No. 1 being in the initial mound on the west side of the main street of Morris.

My next work was to survey the east boundary of Township 4, Range 6, west of Principal Meridian. This line I found had been previously run; I therefore did not change any of the corners, but ran it over again, and put in iron posts.

Next I proceeded towards Township 9, Range 7, west of Principal Meridian, where the east boundaries of Sections Nos. 5, 8, 17, 20, 29 and 32 had to be run. Coming to the southwest quarter of the township, however, we found the whole country a *brulé*, growing up with a dense growth of poplar, willow, &c., in which we could find no post, line, or mark of survey. It being evident that a very considerable amount of work would be required to establish the starting point for our line, so much of the survey of the township having been obliterated, I decided to let the work stand, and report the state of affairs to the Inspector of Surveys, and proceed with some other work. In reply the Inspector ordered me not to go on with the work.

From Township 9, Range 7, west of 1st Principal Meridian, we went to Oak Lake, to run the east boundary of Township 8, Range 25, west of 1st Principal Meridian. On account of the dense growth of tall reeds on the east boundary of Section 1 we were obliged to desist and leave the line unrun; we ran it, however, later in the season, while *en route* to the work on the Antler creek.

In order to give the weakest of my horses a rest, I had left my main camp some thirteen miles south of Brandon, and made a flying trip to Oak Lake. Returning from Oak Lake we proceeded *via* Brandon, Carberry and Gladstone to Woodside, on the M. and N. W. Ry. and began work there, to complete the subdivision of

Township 13, Range 10, west of Principal Meridian. A good deal of time was consumed in recovering old lines and monuments, both when starting the work and when connection had to be made with old work. The work was additionally tedious on account of the marshy nature of the ground, and we desisted before the lines were all run, intending to finish on our way from the west later in the season when the marshes would be frozen over.

Our next work was to run the north boundary of Township 18 and the south boundary of Township 19, in Range 10, west of Principal Meridian. Returning from this we camped near the north-east corner of Township 13, Range 10, and completed the survey of it. Next we proceeded to examine Townships Nos. 5 and 6, in Ranges Nos. 31 and 32, west of Principal Meridian, being contract No. 5 of this season, halting on our way at Oak Lake to complete the survey of the east boundary of Township 8, Range 25, west.

Having completed the examination of contract No 5, we went north by the Moosomin Trail, through Moosomin and Fort Ellice to Todburn, and ran the east boundaries of Sections 13 and 14, Township 19, Range 26, west, south of the Indian Reserve.

Next we moved to Strathclair and traversed the lake on Sections 27, 33 and 34, in Township 16, Range 22, west of Principal Meridian. In the subdivision of the township this lake had not been surveyed, but was described as a dry lake bed. Then we took up our march for Township 16, Range 16, west of Principal Meridian, which township it was stated contained numerous errors in the subdivision survey, which I was instructed to investigate. I made an examination by chaining over a number of lines, the result of which was that the reports of inaccuracies were fully justified. Most of these errors might be corrected, to a considerable extent at least, without disturbing any of the settlers in the improvements they have made. Details will be found in my special report of the examination in question. The Hungarian immigrants settled in this township appear to be thriving, and are evidently an intelligent and industrious people.

Our next work was to survey the north boundary of Township 18, Range 5, west of Principal Meridian. The line had been run, but not very accurately, and we therefore made new mounds throughout, there being no vested interests in the way of improvements on the land to be interfered with.

Next we proceeded with the examination of the contracts of 1888, for the subdivision of Townships 21, in Ranges 3 and 4; Townships 22, in Ranges 3, 4, 5, 6, and 9; and Township 23, in Range 5, all west of the Principal Meridian.

I also resurveyed the east boundary of Township 22, Range 4, west of Principal Meridian. While engaged in this examination work I was joined by N. R. Freeman, D.L.S., who had received instructions to assist me. Thereupon I left the completion of the work to him, viz., the examination of Townships 21, Ranges 3 and 4, of Township 22, Range 9, and to finish in Township 22, Range 4, and Township 23, Range 5.

I then proceeded to Winnipeg, and sold my horses and carts by auction, according to instructions, before proceeding by rail to Whitemouth to examine certain contract surveys there. One horse had become so emaciated through some ailment that he had to be abandoned at Mr. J. Crawford's, on Section 12, Township 21, Range 4, west.

Having disposed of my transport outfit, I went to Whitemouth to make an examination of certain townships in survey contracts in that neighborhood. This work will be finished in a day or two, when I shall return to Winnipeg to disband my party.

The season has been a fine one for camping out, owing to the slight rainfall; and the trails, owing to the same reason, were generally in good condition. Nearly all the ponds and sloughs in the country are dried up, and the lakes and streams have reached a lower level than has been seen for many years. On the open prairies of Manitoba the crops have been very light as a rule, while in the timbered or partially timbered parts they have been fairly good.

This disparity was no doubt due to the more moist condition of the soil in the wooded country, derived from the snow which drifts in the brush, whereas on the open prairie it blows away.

I shall have the honor to transmit to your office, as early as possible, the returns of my surveys, consisting of plans, field notes, reports and accounts.

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

JOHN McAREE, *D.T.S.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa, Ont.



## No. 6.

## REPORT OF L. GOSSELIN, D.L.S.

## CORRECTION SURVEYS ON AND NEAR 2ND INITIAL MERIDIAN.

QUEBEC, 23rd November, 1889.

SIR,—I have the honor to submit the following report of my operations during the past season.

I left Quebec on the 25th of May for Winnipeg, where I had to receive my final instructions. I spent two days in that city in order to buy the part of my outfit that could not be obtained in Wapella or Moosomin; I also hired there the two men needed to complete my party, and proceeded then to Wapella, where I bought the rest of my outfit and my supplies. Some further delay was caused by the non-arrival of my outfit from Winnipeg until the 10th of June, at which date I left Wapella and proceeded to the north-west corner of Township 18, Range 33, west of the Principal Meridian.

After a few days work on this correction line, I saw that both sides of it would require re-survey, instead of only one side as set forth in the memorandum given me with my instructions. Being doubtful what to do, I reported the matter to Mr. J. S. Dennis, Inspector of Surveys, and meanwhile proceeded to Township 20, Range 33, in which I effected the necessary corrections.

I then began to work on the 2nd Initial Meridian, in Township 21, but after a few days I was obliged to abandon that also, being convinced that I could not carry out my instructions, because the existing errors differed so much from those mentioned therein. Having received an answer from the Inspector of Surveys relative to the corrections to be made on the 5th Correction Line, I returned there and moved the posts and built new mounds on both sides in Ranges 33, 32, and part of 31. The owner of Section 34, Township 18, Range 31, would not allow me to move the posts, but the changes to be made there were very small.

During this survey, two of my assistants were for a week unfit for work.

According to new instructions received I then returned to the 6th Base Line, and continued the re-survey of the 2nd Meridian as far as Churchbridge, on the Manitoba and North-Western Railway. Finding that I met with the same difficulties as before in carrying out my instructions, I telegraphed to the Inspector of Surveys requesting him to meet me at Churchbridge if possible.

He came on the 4th of August, and after hearing full explanations, gave me fresh instructions how to proceed. Following these, I re-surveyed the 2nd Meridian again, from the 6th Base Line going north, running a part of every township chord and some subdivision lines in every township, always from the posts of the original survey on the 2nd Meridian, so as to be able to understand the exact position of affairs on the ground.

I was obliged to abandon this work however at Stony Creek, in Township 27, having to travel some nine miles from my camp to the work in consequence of the scarcity of water.

I then started for Fort Pelly, to change the posting from the old system to the new on the 2nd Initial Meridian, in Townships 33 and 34.

After having completed that, not being able to procure any supplies at Fort Pelly except flour and bacon, I went back to Wallace, where I learned from the Postmaster that I could now find some water in one place in Stony Creek, so I returned there to continue the work abandoned some weeks before.

From my camp there I re-surveyed the 2nd Meridian in Township 27 and in part of Township 28, where I was obliged to give up work a second time for want

---

of water, having six or seven miles to walk to get to work. I expect that in the remaining townships up to 33 the same errors will be found to exist as in those I examined.

Having no instructions for other work I went to Whitewood, and thence to Moosomin, where I had my horses and outfit sold by auction, this being the only place where they could be disposed of to advantage.

To account for the slowness of my operations I would draw your attention to the fact that I had to find all the old posts, which sometimes involved a great loss of time, to open all the east and west lines, and very often the meridian line, and also to do much travelling.

The summer has been so dry that if I had not been supplied with water by settlers I should not have been able to continue the survey. I was obliged very often to camp a long distance from my work.

I reached Moosomin on the 16th of October and left that place for Winnipeg on the 18th.

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

LOUIS GOSSELIN, *D.L.S.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa.

## No. 7.

## REPORT OF E. W. HUBBELL, D. L. S.

## EXAMINATION AND CORRECTION OF SURVEYS.

OTTAWA, ONT., 11th December, 1889.

SIR,—I have the honor to submit the following general report upon my operations for the past season.

In compliance with your instructions dated 7th May, 1889, I reported myself to Mr. J. S. Dennis, Inspector of Surveys, with whom I proceeded to Winnipeg, arriving there on the 16th.

On the 18th I received further instructions from Mr. Dennis to retrace, re-measure and offset the 4th Initial Meridian, making corrections where necessary, and to inspect and correct certain townships west of the 3rd Initial Meridian.

Leaving Winnipeg on the 19th, I arrived at Medicine Hat the following day, where I completed my party and the greater portion of my outfit, and on the 25th, in company with Mr. Dennis, I proceeded to Calgary, where I received the remainder of my outfit and shipped it to Medicine Hat.

We were delayed at Medicine Hat for some time awaiting iron posts, which I was informed had been shipped to me from Winnipeg on the 21st.

The posts not having arrived at Medicine Hat on the 30th, I telegraphed Mr. Dennis at Calgary to that effect, who instructed me that if they did not arrive by the 31st I was to leave without them and proceed with my work. As they did not come to hand on the date specified we accordingly left Medicine Hat on the 1st June, and arrived at the forks of the Red Deer and Saskatchewan Rivers on the 6th.

Here we experienced considerable difficulty in crossing our outfit, both on account of the rapidity of the current, the high water at the time, and the unsuitable character of the means for crossing.

After leaving the forks our progress was retarded in some measure by scarcity of wood and water.

I arrived at the north boundary of Township 48, where I commenced operations, on the 22nd.

I was unable to obtain a good observation for azimuth until the 24th, owing to the dense smoke; this prevailed more or less during the whole summer, and was a great obstacle to rapid progress.

Having obtained an observation, I found the azimuth of the meridian north of my work correct. On working south from this point, I discovered the greater number of mounds previously made to be slightly incorrect, and these, according to instructions, we destroyed, placing new ones in proper position.

This was done in Townships 43 to 48, inclusive, and in some others where two rows of mounds existed, one being of the old system of survey. On arriving at the eleventh base I found an error in azimuth of about two chains, which I corrected according to instructions, by leaving it on the eleventh correction line.

Leaving the eleventh base and working south towards the forks, we found no wood whatever and great scarcity of water, the latter owing to the exceptional and continued drought, which was only broken by one rainfall during the summer. In consequence of this we experienced extreme difficulty and inconvenience in proceeding with our work as quickly as we otherwise would have done, inasmuch as we were obliged to locate our camp where water could be obtained, and had to travel many miles every day between camp and the point of operation.

Again, the effect of the protracted drought upon the ground was such that the surface was warped into hummocks in many places, and broken open into wide deep cracks in others, so that travelling by buckboard, and even on horseback, was rendered tedious and unsafe.

On one occasion my buckboard, in which I was often obliged to carry four persons, was broken down by pitching into one of these cracks; and owing to the roughness of the ground our horses were badly galled by the constant chafing of the shafts and harness.

Adverting to the character of the country where we carried on these operations, I may say that the soil generally possesses good agricultural qualities, being a rich black loam, varying to sandy loam, with clay subsoil.

From Township 41 I was compelled to send my cook (the only available man) to Medicine Hat, a distance of 200 miles, for provisions. But, he losing his way and meeting with an accident which very nearly had fatal results, I did not see him again for fifteen days.

Having completed the work to the forks, on the 1st September we recrossed the river taking our outfit on rafts specially built for the purpose. This crossing proved to be much easier than that on our way north, owing to the extreme lowness of the water in the river.

Leaving my party at the forks in charge of Mr. O'Keeffe, my assistant, to make repairs to the outfit, of which it stood greatly in need, I proceeded to Medicine Hat as pre-arranged by Mr. Dennis, and, accompanied by him, I returned to the forks and together we made an examination of work in Township 21, Range 29, west of the 3rd Initial Meridian.

After the departure of Mr. Dennis on the 10th September, we finished work on the 4th Meridian and proceeded to inspect and correct the subdivision of Townships 21 and 22, Range 29, west of the 3rd Initial Meridian.

We commenced the subdivision of Township 21 on the 16th of September by running the north boundary. The western two and one half miles are cut up with large coulées, which made chaining over this part impossible.

The eastern boundary of the township was then resurveyed to locate the south-east corner of the township where an iron bar was found in the drifting sand hills.

The southern part of the township is of such a sandy character that the mounds retain their form but a short time, and for this reason few of the old posts and mounds were to be found. The sand hills are covered in places with bluffs of cherry and willow scrub. The northern part is good agricultural land, being a black loam with clay subsoil.

This township was corrected according to instructions; posts were moved and new mounds built wherever they were found to be incorrect.

On the 3rd October we commenced the correction of Township 22 by running easterly across the township from the north-west corner of Section 19; this line runs through immense coulées and ravines, rendering chaining impossible, and necessitating a series of offsets and trigonometrical calculations. The subdivision of the remainder of the township was then proceeded with and necessary corrections made. Progress in this township was very much retarded owing to deep coulées and ravines, which extend from the South Saskatchewan and Red Deer Rivers for miles; work was also much hindered from having to make 18 crossings of these rivers with the lines surveyed.

No water is to be found in Township 21, but several small springs feed the river in Township 22. These townships are well adapted for grazing purposes, as was to be seen from the condition of a large herd of cattle and horses belonging to Messrs. Palmer and Carre who are located at the forks. These animals destroy mounds almost immediately after they are built, and for this reason I would respectfully recommend that posts and pits be substituted in any further corrections of old surveys that may be necessary in this locality. A number of river lot mounds found in Township 22 were destroyed according to instructions.

Before completing work the rivers were filled with floating ice, and finally frozen over on the 8th November. As the season was getting far advanced and the days of short duration, I concluded to stop field operations for the year. I left the forks for Medicine Hat on the 12th November, in the midst of a heavy snowstorm which

---

lasted three days: arriving at Medicine Hat on the 15th, I pitched camp and awaited remittances from Calgary, which arrived on the 18th.

After paying off the party on the following day, and having stored my outfit with Messrs. Tweed and Ewart, I left for Ottawa on the 20th. I am now engaged making the necessary plans, notes, &c., of the various correction surveys intrusted to me, which will be forwarded to you with all possible despatch.

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

E. W. HUBBELL, *D.L.S.*

E. DEVILLE, Esq.,  
Surveyor General  
Ottawa Ont.

## No. 8.

## REPORT OF EDGAR BRAY, D. L. S.

## SURVEY OF TOWNSHIP OUTLINES.

DAUPHIN LAKE, 15th December, 1889.

SIR,—I have the honor to forward the following report of the work performed by me up to the 14th December 1889.

I left home on 13th September and arrived in Winnipeg on the 16th, where I purchased the necessary supplies and camp outfit and shipped them to Strathclair.

I proceeded with my party to Strathclair on the 24th, but the bulk of my outfit did not arrive until the 28th.

While at Strathclair I bought four horses, and, as I could not obtain any carts, I was compelled to take a waggon. I also engaged two teams to freight my supplies to the Dauphin Settlement.

We arrived at McIntosh's store on 3rd October and there arranged for and stored my extra supplies, &c. In this settlement I bought a cart, which I had repaired. It has been very serviceable.

On 7th October we left for the corner of Township 24, Range 20, west of the Principal Meridian, and found that a road would have to be cut through some woods. Owing to this, and to the entire absence of water, it was not until Monday the 14th October that we began work on the 7th Base Line. I may say here that almost the only places where water is found are in Valley and Drifting Rivers. This want of water greatly delayed the survey, as it compelled us to walk long distances to and from our work.

The work performed to date comprises the outlines of Townships 25 and 26, in Ranges 21 and 22, and the 7th Base Line across Range 23, in all 66 miles of line.

Tp. 25, R. 21.—Along the 7th Base Line there is excellent soil, and in the remainder of the township good land is plentiful. Valley River runs through the north westerly sections of this township, and along the river some light sandy land is found. Except a small area in the south-west corner, this township appears to be wooded with poplar and, in some places, spruce; but a considerable portion of the timber has been killed by fire.

Tp. 25, R. 22.—The southerly and south-westerly sections of this township consist of a very scrubby prairie, called here, "Gilbert Plains." The balance of the township is pretty well covered with woods of small poplar and scrub, which here been mostly killed by fire. The soil is nearly all first rate being a sandy loam with a clay subsoil. Valley River enters the township in Section 7, and flows north easterly, making its exit in Section 25.

Tp. 26, R. 21, has some open country near Valley River, but in all the other sections it appears to be wooded with poplar and small bluffs of spruce, a large quantity of which has been killed by fire. Valley and Drifting Rivers run through portions of this township, the former in the south east and the latter in the north. The soil is of fair quality, except along Valley River where sand is occasionally met with.

Tp. 26, R. 22, is mostly good land. Poplar and spruce timber covers the northerly sections of the township, while the remainder is mostly covered with small poplar and scrub now nearly all dead. Drifting River flows easterly through the north-easterly sections of this township.

Tp. 25, R. 23, appears to be excellent land and lies mostly in Gilbert Plains. Scrub is very plentiful and some timber was found. Valley River runs easterly through the township, along which some light sandy land was seen.

---

Tp. 24, R. 21, is probably half woods and half scrubby prairie, the woods covering the easterly half. The soil so far as seen was of excellent quality.

Tp. 24, Ranges 22 and 23. Scrubby prairie with a first class soil of loam, and in most cases a clay subsoil. The surface is slightly rolling with mostly long gentle slopes, giving good drainage. Dead fallen timber is frequently found, but live woods were not visible from the 7th Base Line.

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

EDGAR BRAY, *D.L.S.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa, Ont.

## No. 9.

## REPORT OF J. McLATCHIE D. L. S.

## TOWNSHIP OUTLINE SURVEY.

DEVIL'S LAKE, ASSA. 10th December, 1889.

SIR,—I have the honor to submit the following report of outline surveys performed by me during the past season in the District of Assiniboia, in the North-West Territories.

The townships outlined were Townships 29 and 30, in Ranges 9, 10, 11, and 12, situate at Beaver Hills, Townships 31 and 32, in Ranges 5, 6, 7 and 8, and Townships 29 and 30, in Ranges 4 and 5, in the vicinity of Devil's Lake, all being west of the Second Initial Meridian.

*Township 29, Range 9.*

This township is thickly wooded ; the southerly half with poplar from four to eight inches in diameter, the northerly half with small poplar and willow.

The surface is rolling, but not hilly or broken. The soil is composed of black loam from four to ten inches in depth, with clay subsoil, and is good agricultural land. Only a limited supply of hay can be procured in this township, as the hay marshes are neither numerous nor extensive in area. The whole township has been overrun by fire during the past season which has destroyed most of the timber of any value. Three creeks run in an easterly direction across the township, with banks from 60 to 100 feet in height.

*Township 30, Range 9.*

The southerly half of this township is covered with a thick growth of small poplar and willow ; the northerly half with clumps and belts of poplar and willow, with openings of scrubby prairie and scrub. The soil in the southerly half of the township is composed of black loam with clay subsoil ; in the northerly half the subsoil is gravel. A creek enters this township in Section 7 and, running in an easterly direction across it, leaves it in Section 12. This creek and several ponds in the township give an unlimited supply of good water.

Several ponds containing water, strongly alkaline, are also found in this township.

The southerly half contains some good farming land and a few hay marshes ; the northerly half would be suited for sheep and cattle raising, and would besides produce a considerable quantity of hay.

*Township 29, Range 10.*

This township is thickly wooded with poplar and willow, excepting a portion of the north-west quarter, where poplar and willow are found in clumps and belts, with openings of scrub, and scrubby prairie. The soil varies from a sandy to a black loam, with clay subsoil, and is good agricultural land. The surface is rolling. It contains a fair proportion of hay land. A creek taking its rise from a spring, half a mile south of the township line, enters this township in Section 4, and, running in a north-easterly direction, leaves it in Section 36. A spring containing good water was found in Section 33, near the north boundary of the township. The greater portion of the township has been overrun by fire during the past season, which destroyed much valuable timber.



*Township 30, Range 10.*

The surface of this township is rolling. The ridges are mostly covered with a thick growth of poplar and willow, the valleys with thick willows and willow scrub, surrounding the hay marshes. The soil is a sandy and black loam, with clay subsoil.

It is well suited for agricultural purposes.

A creek enters this township in Section 35, and, running in a southerly and then an easterly direction, leaves it in Section 12. Several springs on this creek give a supply of good water.

*Township 29, Range 11.*

The surface of this township is rolling, and in places hilly. The ridges are usually covered with a thick growth of poplar and willow, openings of scrub, scrubby prairie, and hay marshes intervening between the belts and clumps of timber. The soil is a sandy and black loam, with clay subsoil, and is well suited for farming or stock purposes. A creek enters this township in Section 18, and, running in a north-easterly direction, leaves it in Section 33. It contained no water where it entered the township, but was supplied from a spring east of the township line. A spring containing good water was found in Section 24 near the east boundary of the township.

*Township 30, Range 11.*

The surface of this township is rolling. It is partly wooded with a dense growth of poplar and willow, occurring in clumps and belts, with openings of scrub, scrubby prairie and hay marshes. It is well suited for agricultural or stock purposes, the soil being a sandy and black loam, with clay subsoil. A creek containing an abundant supply of excellent water enters this township in Section 4 and leaves it in Section 32. The cart trail from Touchwood Hills to Fort Pelly passes through Section 31.

*Township 29, Range 12.*

The surface of this township is slightly rolling. It is partially covered with poplar and willow in belts and clumps, with openings of scrub, scrubby prairie, and hay marshes intervening between the belts and clumps of timber. The soil is a sandy and black loam, with clay subsoil. It is well suited for farming or stock purposes. One creek enters this township in Section 1, and leaves it in Section 13; another enters in Section 3, and leaves in Section 31. Neither of these creeks contained any water, nor was there any water found in this township. It was overrun by fire several years ago, destroying much valuable timber.

*Township 30, Range 12.*

This township is slightly rolling, and is fairly well timbered in belts and clumps, with scrub and scrubby prairie openings. It contains a fair quantity of hay land.

The soil is a black and sandy loam, with clay subsoil, and is well suited for stock or farming purposes. One creek enters this township in Section 6, and leaves it in Section 35. Another, supposed to be Duck Hunting Creek, containing good water, enters in Section 30, and leaves in Section 34. Still another, crossing and recrossing the north boundary, runs from west to east, leaving the township in Section 33. The cart trail from Touchwood Hills to Fort Pelly, passes through this township in a north easterly direction.

*Township 31, Range 5.*

This township is slightly undulating. It is partly wooded with poplar and willow, and contains some extensive hay marshes. The soil is a sandy and black loam, with clay subsoil. It is better suited for stock-raising than farming.

*Township 32, Range 5.*

This township contains some large hay marshes. The ridges are lightly timbered with poplar and willow.

The soil is a sandy and black loam, with clay subsoil. This would be a good township for stock-raising, or for mixed farming.

*Township 31, Range 6.*

This township contains some good farming land along the banks of Devil's Creek, which enters the township in Section 33, and leaves it in Section 14. There is some good hay land in the creek valley and in other portions of the township. At the west outline of the township there is a heavy belt of poplar. The rest of the township is scrubby prairie, with clumps of poplar and willow.

Several persons located on Devil's Creek are going extensively into sheep and cattle ranching.

*Township 32, Range 6.*

The northerly half contains large hay marshes and belts of poplar timber. The southerly half is open prairie with clumps of poplar and willow. Devil's Creek enters this township in Section 18, and leaves it in Section 4. The soil is black loam with clay subsoil, and is well suited for farming or stock-raising.

*Township 31, Range 7.*

This township is mostly covered with poplar and willow. Belts of poplar from 6 to 10 inches in diameter are found on the north, east, and south boundaries. The soil inclines to sand and sandy loam, with gravel subsoil on the south boundary, while in the northerly part there is sandy loam with clay subsoil. The township contains a number of hay marshes, and is better suited for stock than for farming purposes.

*Township 32, Range 7.*

This township is covered with a thick growth of poplar and willow, and contains a great number of small hay marshes.

The soil is a sandy and black loam, with clay subsoil, and is equally well adapted for farming or stock-raising.

The northerly part has been overrun by fire during the past season, which has destroyed some valuable timber.

*Township 31, Range 8.*

The White Sand River enters this township in Section 30, and leaves it in Section 17. The township is lightly wooded with poplar and willow. It contains a considerable number of hay marshes, and the soil is light and gravelly. It is not a desirable township for settlement but would be good grazing land for cattle or sheep, especially the latter.

*Township 32, Range 8.*

The northerly half of this township is very thickly wooded with poplar and willow. The southerly half is lightly wooded with clumps of the same wood. It contains a great number of small hay marshes. The soil on the north and east boundaries is a sandy and black loam, with clay subsoil, while on the south boundary it is light and gravelly. This is only an average township for either stock or farming purposes. It has been overrun by fire during the past season, destroying much valuable timber.

*Township 29, Range 4.*

The White Sand River enters this township in Section 3, and leaves it in Section 25, and along the river banks there is some good farming land. The soil is generally a sandy loam, with sand subsoil.

This township contains a large number of hay marshes, and is thickly wooded, in belts, with poplar and willow, and is well suited for stock-raising or farming. Several settlers have already located in it, with the intention of raising horses.

*Township 30, Range 4.*

This township contains some extensive hay marshes. A thick growth of poplar and willow occupies the ridges. The soil is a sandy loam, with subsoil of sand in the south, and clay in the north part of the township. It is well adapted for either farming or stock-raising.

*Townships 29 and 30, Range 5.*

Devil's Lake, a beautiful sheet of water about eight miles in length and three miles in breadth, is situated in these townships. It contains excellent water, probably the best water to be found north of the Qu'Appelle and west of the Assiniboine Rivers. It also contains a great number of pike, or jack-fish, some having been caught weighing as much as twenty pounds; and, being the only lake containing fish in this locality, it is extensively patronized by the settlers.

On the south east side of the lake, sand hills, composed of blown or drifting sand, rise to a height of from 60 to 100 feet, and besides poplar, sustain a growth of willow, cherry, saskatoon and juniper bushes. Immediately east of the sand hills the country is low, level, and marshy. These townships in an ordinary season would produce an immense quantity of hay; although the past season was dry there was a great quantity of hay cut, so that there are now wintering in the vicinity of the lake, and mostly in these two townships, about 1,000 head of cattle and horses. If the season had been favorable for producing hay 10,000 might be wintering here just as easily. There is no water running out of the lake, and but little appearance of an outlet, as it passes into marshes on its way to the White Sand River. The Indians, however, claim that there was a time when they could paddle their canoes up from the White Sand River into Devil's Lake; and I think there is nothing unreasonable in this, as in 1880, when the block line was run between Ranges 4 and 5, many of the posts appear to have been placed in the marshes in water two or three feet in depth, while during the past season the marshes were perfectly dry,—so dry that they only produced an indifferent crop of hay. The soil is a sandy loam, with subsoil throughout of sand.

The ridges between the swamps are covered with a thick growth of poplar and willow. While there is some fair farming land in these townships, they are better adapted for stock-raising than farming.

In carrying on the survey during the past season there were two difficulties to contend with—scarcity of water and prairie fires. After a succession of dry seasons there was a very light fall of snow during the past winter, which had all disappeared in the month of March, so at the outset it was difficult to procure water. The usual June rains failed, and a dry, hot summer followed. By digging wells and camping at places where water could be procured, at great distances from the work, and by using water from alkaline ponds, June and July were passed. Throughout the remainder of the season water was drawn in barrels, often more than 10 miles.

The horses had also to be taken to get their daily supply. In one instance, in Beaver Hills, I sent 7 or 8 miles for water, and had to do without water, or dinner, until after 3 o'clock.

The following day a spring was found, 10 or 12 chains from camp. I only give this instance to show that in an unexplored region both men and horses may be suffering for want of water, while if settled, or better known, an abundant supply might be found. The troubles that arise in surveying an unknown country would often disappear entirely if the country was well known.

The difficulties arising from the scarcity of water are considerably increased when the country has been overrun by prairie fires.

If the camp is placed where it best suits the work, the horses have to be sent miles away to get feed; then the feed is not always found where water is, and

---

the horses have to be taken to water, and back again to the feeding ground; otherwise they have to be picketed where the food is limited, and not on grass they would have chosen, but what they are compelled to use through stern necessity. The consequence is that with scarcity of water and food they become reduced to living skeletons. But while it is disagreeable, to say the least, to work a whole season in burnt country, this is nothing compared to the incalculable damage done by the fires to the public domain. The damage done by the destruction of timber, in some districts not too plentiful, and the burning of the vegetable mould in hay marshes, will take years to repair. There will always be some difficulty in tracing the origin of prairie fires, as they are often started at great distances from settlement. In settled districts neighbors are not inclined to become informers, and usually do not give information, unless they have sustained serious loss themselves as a result of the fire. All that is required is to exercise a little care in dry seasons to avoid the danger of leaving a fire behind after preparing a meal on the prairie.

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

JOHN McLATCHIE, *D.L.S.*

E. DEVILLE, Esq.,  
Surveyor-General,  
Ottawa.

## No. 10

## REPORT OF C. F. LECLERC, D. L. S.

## SURVEY OF HALF-BREED SETTLEMENT ON THE SOUTH SASKATCHEWAN RIVER

ST. JEAN, PORT JOLI, 14th November, 1889.

SIR,—I have the honor to report as follows on my operations in the survey of the Half-breed settlement on the south branch of the Saskatchewan River, in the District of Prince Albert :

On receiving my instructions from the Department on the 26th December last, I proceeded immediately by the C. P. R. to Qu'Appelle, and from there by mail stage to Batoche, where I organized my party and procured the necessary outfit.

I paid a visit to Revd. Father Lecoq, of St. Louis de Langevin, and consulted in his presence a few of the settlers about their claims and the way in which they wished to have them surveyed.

I then proceeded with the survey of river lots in conformity with their wishes, as much as possible, and they all seemed to be well satisfied, and very grateful to the Department.

On the 18th of February I received instructions from Ottawa to confer with the Agent of Dominion Lands at Prince Albert, in order to ascertain if he had any request for similar surveys from the Half-breeds in his district.

In accordance with his instructions I made surveys in Townships 44 and 45, Range 1, west of 3rd Initial Meridian.

While I was thus engaged the land agent collected information from the rest of the District, and on February 27th, on going again to Prince Albert, I received new instructions from him for surveys in Townships 42 and 43, Range 1, and Townships 41 and 42A, Ranges 1 and 2, all west of the 3rd Initial Meridian.

I finished this work on 10th April and made a report to the Prince Albert Agent, who informed me that this completed the surveys required. After settling with my party on 13th April I left for the east.

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

CHS. FR. S. LECLERC, D. L. S.

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa.

## No. 11.

REPORT OF J. L. REID, *D. L. S.*

## CORRECTION, SUBDIVISION AND TRAIL SURVEYS.

PRINCE ALBERT, N. W. T., 23rd November, 1889.

SIR,—I have the honor to report that I have completed the work given me by your instructions of the 7th of May and the 13th of September last, viz:—

1. Survey of trail from Gabriel's Crossing of the South Saskatchewan to Humboldt.
2. Survey of trail from Batoche's Crossing of the South Saskatchewan to its junction with the Qu'Appelle and Prince Albert trail.
3. Survey of trail from Fort à la Corne to Spence's Crossing of the South Saskatchewan.
4. Survey of trail from Pahonan settlement to the Carrot River settlement.
5. Survey of portion of trail from Duck Lake to Batoche.
6. Survey of the north and south boundaries of Township 42, Range 1, west of 3rd Meridian; also north boundary of Township 42 A, Range 1, west of 3rd Meridian.
7. Survey of river lots at Carlton.
8. Subdivision survey of that portion of Township 49, Range 1, west of 3rd Meridian, lying south of the North Saskatchewan River.

Though this district has, to a certain extent, felt the general drought; still, owing to its great natural advantages, the settler has abundance of water, wood, and hay, and the grain harvest, though not as large as usual, is of superior quality. I would also beg to draw your attention to the terrible destruction, from fire, of timber, that has occurred in this district during the past summer. The whole country to the north of the North Saskatchewan River has for miles been devastated; thousands of dollars worth of valuable timber has been destroyed. Report comes to us that the timber about Montreal Lake, Red Deer Lake, Trout Lake, Candle Lake, and away east down the Sturgeon River, has been completely destroyed. Large belts of fine spruce and poplar, which cannot be replaced to the country, have disappeared.

I have the honor to remain, Sir,

Your obedient servant,

J. LESTOCK REID, *D. L. S.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa.

## No. 12

## REPORT OF P. R. A. BELANGER, D.L.S.

## SURVEY OF TRAILS AND SETTLEMENTS AT LAKE STE ANNE AND LAC LA BICHE.

L'ISLET, 13th December, 1889.

SIR—I have the honor to submit the following general report of my doings during the last season.

In accordance with your instructions, dated the 7th May last, for the survey of certain trails in the Edmonton district, and the settlements at Lake Ste. Anne and Lac la Biche, I left home on the 14th for Winnipeg and Calgary, reaching the latter place on the 23rd of the same month.

There I bought some supplies and camp equipage, while waiting for the Inspector of Surveys, who arrived on the 26th, and supplied me the next day with the remainder of my outfit.

On the 27th I started for Edmonton, where I arrived on the 4th of June.

Here I spent a couple of days in completing my outfit and hiring my party, after which I commenced the survey of the Edmonton and St. Albert trail, from the north boundary of the settlement of Edmonton, on Section 6, Township 53, Range 24, west of 4th Meridian, proceeding north-westerly to St. Albert.

This trail measures about six miles and a-half in length, and connects with a street on the Roman Catholic Mission town site at St. Albert.

It runs across a settled country of nearly level prairie, and though the soil is loamy the road is generally good.

The general course of the trail was followed by my survey, making alterations worth mentioning only in two places, in order to straighten bad bends. In one of these places I ran the trail 5 or 6 chains off the old track and across a cultivated field owned by a Mr. Harnois, but the consent of the proprietor was obtained, and he was satisfied with the change.

Mounds with wooden posts were placed in proper positions; but, with regard to these mounds, I regret to say that on my way back this fall I noticed that the cattle had already destroyed them and knocked down the posts, leaving only the pits to witness to the corner approximately. On the 12th June, having finished the Edmonton and St. Albert trail survey, I proceeded at once to Lake Ste. Anne, which I reached on the 14th.

Here I was employed during sixteen days in the survey of the trail and of the settlement. The latter survey occasioned a great loss of time in opening up the lines, as, though the settlement is small, the land is heavily timbered. I experienced also some delay through the dense smoke of the bush fires that prevailed in June and July, which fires destroyed an immense quantity of valuable timber in the northern districts.

The settlement is situated on the south shore of Lake Ste. Anne. It extends over a distance of about six miles, and numbers twenty lots in all.

The lots, with the exception of five, were made as regular as possible, and about 160 acres in area. The side lines were run north and south as far as practicable, and chords of sections were surveyed for the rear line.

Lot A, as laid out, was intended as a homestead for the settlers on lots 9, 10 and 11, but they objected to it, because the land was too swampy for farming purposes, although it might serve for grazing land; and as they declared themselves satisfied with the few acres they had already cultivated around their houses, I arranged the lots to suit their wishes.

The said lot A is applied for by the Oblat Fathers in compensation for the loss of some land on which they had a claim of 40 years' standing, but which has been taken possession of (jumped) by squatters.

The population of the settlement, with the exception of the missionary and the H. B. Co's. Factor, his family, and an old French Canadian, is composed of Half-breeds and some Indians, the majority of whom speak only the Cree language, and like their ancestors the Crees, they do not care much for farming and seem to depend entirely on fish and game for their living.

As to the agricultural capacity of the land, it may be called good. The climate is also very good, and free from summer frosts for a mile around the lake, but notwithstanding these advantages the settlement is bound to progress very slowly, owing to the great quantity of timber that covers the land and the want of proper settlers for such a country.

Lake Ste. Anne is a beautiful sheet of water, somewhat in the shape of a pair of spectacles, with narrows in the centre about 4 chains wide. Its length is about 10 miles and its width 4.

It seems to be the breeding ground of the black ducks which abound in that region. It was also at one time full of whitefish, but, owing to the great numbers taken in nets by the Half-breeds and Indians during the spawning season, the supply is rapidly diminishing every year, and before long none will remain to be caught.

On the 4th July, having completed the survey of the Lake Ste. Anne settlement, I returned to Edmonton to survey the Edmonton-Saskatchewan trail; but, finding that Messrs. Wilson and Oliver, members of the North West Council, to whom I had been referred as advisers concerning the location of that trail, had not yet made up their minds about it, I decided to postpone the survey till the fall, and after applying to you for instructions I discharged my party and proceeded to Lac la Biche *via* the Victoria and Saddle Lake trail, a distance of about 180 miles. I reached Lac la Biche on the 14th July, and the next day I hired a new party and started work at once.

Here I was employed during three full months in the survey of the settlement and the main trail which crosses it.

Nearly all lines, either for the survey of the lots or for the trail, had to be cut through the bush. This occasioned great delay in the progress of the work.

The settlement, though comprising only 80 lots in all, extends over a distance of about 40 miles, that is, following the sinuosities of the lake shore.

It is scattered around the southern and north east parts of Lac la Biche, and is situated near latitude  $55^{\circ}$ , and about 160 miles from Edmonton by the shortest road.

The lots I laid out vary in width from 10 to 45 chains, and in depth from 40 to 160 chains, and were surveyed in such shapes as to comply with the instructions received by me, and to satisfy the squatters whenever possible, avoiding interference with their improvements.

My operations consisted in the traverse of the lake from one end of the settlement to the other, the survey of a base line along the shore of the lake, on which I planted posts to mark the frontage of each lot, and a rear line, on which I also planted posts to show the width and depth of each lot. The main trail was also surveyed for a distance of twenty-six miles across that part of the settlement where the lots are contiguous or nearly so.

In the eastern part of the settlement, where the lots are distant from one another, I did not make any survey for the trail, but I reserved a road allowance across such lots.

Important changes were also made in the location of the trail, in order to avoid crossing the claims unnecessarily, and to throw it inside of the settlement where it ran for a long distance from 5 to 10 chains outside of the boundary.

Several lakes in the interior of the settlement were surveyed, and side lines of lots were run in different places, in order to test the work and establish the true position of different points. The azimuths of lines were checked by observations about every three miles, but my work was not tied to any old survey, as no line has been run so far north in this neighborhood.

As at Lake Ste. Anne, the population of Lac la Biche is almost entirely composed of Half-breeds and Indians, who for the most part speak only the Cree language, and, like their brethren at Lake Ste. Anne, depend on the game and fish for a livelihood.



Lac la Biche is a large sheet of water, measuring about 60 miles in contour and nine miles broad. It is situated about ten miles north of the height of land, and empties its waters through the La Biche River into the Athabaska River. It abounds in fish of different kinds, such as whitefish, pike, carp, etc. To give me an idea of the value of the fishing, a squatter told me that last year, during about ten days in October, the spawning time, 113,000 whitefish were killed, and the year before 108,000 had been caught. If we add to that number about 500 to 1,000 fish that are caught daily all the summer for the consumption of the settlement, we will form an idea of the great destruction of fish that is going on at Lac la Biche. With regard to the agricultural capacities of the land in that settlement I may say they are very good. The soil is either clay loam or sandy loam, and will produce all kinds of cereal or root crops. The only apparent objection to this district for settlers is the labor involved in clearing a forest country. The climate is very fine, so fine that I do not hesitate to say there is not its equal in any settlement in the North-West. This is due to the warmth of the waters of the lake which tempers the atmosphere for a couple of miles around its shore. The inhabitants of the place agree in saying that they have never seen any frost to injure their crops. With such advantages, it is a pity to see that so little has been done towards opening up this fine country. I am inclined to believe that as long as there are fish in the lake the settlement is bound to remain at a standstill. Settlers in search of safe farming lands I should strongly recommend to go to Lac la Biche. There they will find what they desire, and will not be exposed to disappointment.

In the interest of the settlers located in such a distant region, and for the advantage of the travelling public, I will take the liberty to suggest that the Government should open a new road in a direct line from Lac la Biche to St. Albert. This would shorten the distance about 60 miles, and would have the further advantage of avoiding a number of bad creeks and rivers that have to be forded on the old trail, and are a great source of annoyance.

The settlement of Lac la Biche possesses a mission, of which the parochial duty is performed by the Oblat Fathers, M. I. These missionaries have a homestead on which they have already cleared about 80 acres of land which are under cultivation. This year they had a good wheat crop on about 40 acres; they have also raised 2,000 bushels of potatoes, most of which is for the benefit of their flock. They possess also on their claim grist and saw-mills, which prove of great advantage to the whole settlement. The Sisters of Charity have a convent where they bring up and educate orphans.

On the 16th October I left Lac la Biche to return to Edmonton, and arrived at that place on the 22nd. Messrs Wilson and Oliver having left for Regina without informing me as to their decision about the location of the Edmonton-Saskatchewan trail, I telegraphed to the Lieutenant-Governor, asking him to appoint a Trail Commissioner to decide in the case. In reply, the Lieutenant-Governor instructed me to act as commissioner and to examine into the respective advantages of the two trails known as the "inner" and "outer" trails, forwarding, at the same time, a copy of the petitions in favor of each. After investigation, and inquiries from the interested parties, I soon found out that the general desire was in favor of the "inner" trail. The people most interested, the travelling public of Edmonton and Fort Saskatchewan, were almost unanimous in favor of the "inner" trail, and among the settlers whose claims are crossed by that trail I found only one who offered serious objection; therefore, I proceeded to survey the inner trail. This, though not very old, was in existence before the township surveys were made in the locality, and has always been used since, while the "outer" road is not what may be called an "old trail"; it has never been used for one-half the distance, which is the part where it is proposed to follow the correction line. Further, that trail needs no survey in order to be recognized by law, except the small piece which would follow the "Athabaska Landing trail" to the correction line. The first part of the "outer trail," as proposed, follows the road allowance along a meridian line. No great alteration was made in the general course of the trail surveyed except the one made by the Fort Saskat-

chewan people two years ago near their settlement. In order to shorten the distance the old trail had been abandoned and that piece adopted and improved with public moneys.

The distance between the two settlements of Edmonton and Fort Saskatchewan measures thirteen miles and 30 chains. The survey covers all the improvements made by the North West Council on the trail, with the exception of a small bridge at the start, which had been made common to both the "inner" and the proposed "outer" trails.

The small change I made at the starting point in the location of the road, at the request of the only opponent to its survey, will necessitate the construction of a small bridge about 15 feet long.

According to instructions, mounds with wooden posts were erected to mark the angles.

On the 4th November, having completed the surveys allotted to me for the season, I discharged my men and returned to Edmonton, where I spent the three following days on private work, after which I left for Calgary, where I arrived on the 14th and delivered my outfit at the survey depot. The following day I left Calgary for home which I reached on the 20th.

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

P. R. A. BELANGER, D. L. S.

E. DEVILLE, Esq.,  
Surveyor-General,  
Ottawa.

## No. 13.

## REPORT OF W. S. DREWRY, D.L.S.

## TRIANGULATION SURVEY OF RAILWAY BELT IN ROCKY MOUNTAINS.

OTTAWA, 14th December, 1889

SIR,—I have the honor to present the following interim report of field operations on the triangulation survey of the Railway Belt in the Rocky Mountains.

On being informed that it was intended to place me in charge of this survey I at once began collecting information regarding the country from all available sources, and before leaving Ottawa had projected a scheme of triangulation.

The views of the Bow Pass and surrounding country taken by J. J. McArthur, D.L.S., during the season of 1888, and his verbal statements regarding the same, were a very valuable aid, and I desire to acknowledge my obligation to him.

The objects of this survey were to be purely practical, the refinements of geodetic work not being attempted and, in fact, being prohibited by the class of angle-measuring instrument employed. It being impossible to run a system of meridian and base lines in the mountains as on the prairie, an accurate definition of points, to which topographical surveys, and surveys of mining claims, timber limits, and lands, could be tied, was necessary for the proper administration of the country.

This end could be reached only by a triangulation survey.

While carrying on this work other very necessary work was to be performed, such as track surveys of passes, the taking of photographic views from the several stations occupied, and, in general, the collection of information from which to construct a topographical map for the guidance of parties making future detail surveys.

In compliance with your instructions, dated 4th June 1889, I left Ottawa on 8th June and went to Calgary.

At this place packers, laborers, and cooks were hired, and the pack horses, saddles, etc., essential to a mountain survey, purchased.

The men were divided into two parties—one, consisting of a cook, packer, and laborer, being placed in charge of my assistant, L. A. Dufresne, D.L.S., to do the angle measuring, while I, with an assistant, packer, cook, and three laborers undertook the work of exploring, trail cutting, choosing the stations, signal setting, taking of photographs, and collection of other information for topographical purposes.

While we were fitting out at Calgary the whole country became enveloped in a dense smoke, and remained in this state with little interruption for several weeks.

Our purpose had been to begin work at the continental divide, as instructed, and work eastward to the prairie, where a base could be measured; but, in view of the dense smoke, I decided to camp in the foothills, near the mountains, where supplies could be easily procured and work done in short intervals of clear atmosphere.

Early in July there was a heavy fall of snow in the mountains and the air cleared sufficiently to allow the selection of two foothill stations and their supplementary mountain ones. On the 8th day of July I accompanied the observing party to a high foothill north of Ghost River, and selected the position for a signal, pointed out a mountain peak lying north of the east end of Devil's Head Lake, on which another signal was to be erected, and left them with instructions to set both, while I returned to my own men, set the Chiniquy Lake signal south of Morley, and went on into the mountains.

The signal setting above mentioned had not been completed before dense smoke again enveloped everything; but, acting on the information gained before leaving Ottawa, I determined to push on into the mountains while the observing party returned to Chiniquy Lake to await weather favorable to their work.

We followed the south side of the Bow River as far as Canmore, exploring, *en route*, toward Wind Mountain, our objective point. Finding it inaccessible from the Bow Pass we turned aside at Canmore, and entered White Man's Pass, which led us in a southerly direction and along the south-westerly foot of this gigantic mountain, which rises at its highest point 10,400 feet above the sea.

It had been purposed to place a signal on the most northerly peak of this mountain, but, upon climbing and exploring, we found it inaccessible with our means, so we explored the next peak south, and found it was slightly higher than its sister peak and could be ascended.

We camped at its foot for several days, waiting for clear weather, but none came.

Our stock of provisions began to show very alarming signs of shrinkage, so we ascended the peak and built a cairn of stones about 9 feet high, 8 feet diameter at the base and 2 feet at the top. In this we built a pole, to which was attached a bright red flag 26 inches wide by 3 feet long. Wrapped about the cairn and built into it we put red, white and black cloth, the ends being firmly sewn together, and the whole bound by strong cord.

This was the form of signal used throughout in the mountains, with the exception that on all others we guyed the poles, tying the lower extremities of the guys about the cairn, half way down its height.

This form of signal has disadvantages, which I hope to discuss in a later technical report; but it has the great advantage of being permanent, and of its heavy parts being found on the mountain tops.

Wind Mountain signal is some 10,200 feet above the sea, and can be reached by but one route after a long, hard and rather dangerous climb, the upper 500 feet of the peak being a succession of short cliffs, which necessitates careful work in climbing.

Two of us had a narrow escape from falling stones, caused by an inexperienced member of the party crossing above us and loosening rocks, one of which, about the size of a man's head, barely missing, whizzed between us almost with the speed of a cannon ball. Warnings and other things being hurled at the offender made him quickly realize the danger, and during the whole season we had no more escapes of this kind as everybody was careful.

The next day, after our descent to camp, we started for Canmore.

It had been purposed to make a survey of White Man's Pass, but the dense smoke rendered all topographical work impossible, and indeed our time was very fully occupied in cutting our way through the heavy windfall which extends for miles at a time. Besides, the greater part of our route lay within Mr. McArthur's topographical work, now being mapped, and I did not deem it advisable to delay my work to duplicate that already done.

We followed the Bow Pass from Canmore to Banff, and camped on Whiskey Creek at the foot of Cascade Mountain.

We had now progressed to a point beyond which it was useless to go without clear weather, so we remained encamped here until the 26th day of August, in the meantime building a signal on the highest point of Cascade Mountain, 9,800 feet above the sea. This is a long, tiresome climb, but not specially dangerous.

When the smoke disappeared I telegraphed Mr. Dufresne to begin observing, and after a few days delay from the return of the smoke we moved down the Simpson Pass to the neighborhood of Mount Assiniboine, where another signal was to be erected.

Crossing Bow River at Banff we followed its south side some ten miles to the mouth of Simpson's Pass, which, as far as the summit, is the valley of Healy's Creek.

The creek itself flows for a considerable distance in a deep canyon, the pack trail being high up on the mountain sides.

It then gradually approaches the creek, crosses, and after following its banks for some miles leads abruptly upward until the summit is reached, nearly 7,000 feet above the sea.

At this point a singular freak of nature was found. A rugged gulch breaks the mountain side to the south, and down this rushes and leaps a stream of water which, reaching the pass, separates, one part flowing to the Bow River and eventually to Hudson's Bay, while the other forms a branch of the Simpson River, finally reaching the Pacific Ocean.

The pass from the divide to the Vermilion River is the valley of the Simpson, and the descent from the summit to its fork is very steep, and rather dangerous for horses.

As stated in my progress report of 27th August, I deemed it advisable, in view of the protracted delay from smoke, and the season during which we were certain of being able to work rapidly drawing near its close, to partially neglect topographical work and devote our whole time and energy to completing the triangulation to the summit, as this work was urgently needed to tie in Mr. McArthur's topographical work of 1887 and 1888, the routes over which we would travel having already been mapped by Mr. McArthur and members of the Geological Survey.

On reaching the forks of the Simpson we camped, and began exploring for a station.

This entailed considerable work, as the smoke had rendered it impossible to see anything of the country from other stations, and away from the pass it had never been correctly mapped.

While exploring we found an old Indian trail leading up to what might be termed the east branch of the Simpson River, and examination revealed the fact that it led through a pass which probably opens out into the White Man's near Cone Mountain.

Considerable chopping had been done on this trail, the Indians probably preferring this route to climbing over the summit on the Simpson Pass.

Finally, after delay from rain and snow, a point suitable for our operations was found, and we climbed to it through snow nearly knee-deep. The air was piercingly cold, and it was with difficulty we kept from freezing, although the sun shone brightly.

I tried to take photographs of the surrounding country, but found that the plate holders had swelled to such an extent that they could not be forced into the camera.

I then measured angles to different peaks with the prismatic transit, took compass bearings, and attempted to sketch the surrounding country, but my hands had become so stiffened with cold that I could not control the pencil, so was forced to desist.

Returning to camp we were all affected by snow-blindness, and for two or three days thereafter suffered considerably from this cause.

The men called this station "Fatigue Mountain," it having been a terribly severe day's work to reach its top and return to camp.

While on the peak I saw what appeared to be a much easier route to the signal than that followed by us, and examination showed it to be quite feasible, so I determined to send a man to guide the observing party by it.

I had decided to go down Simpson Pass to its junction with the Vermilion, and thence up the Vermilion to Mount Bell in preference to risking the horses over the summit of Simpson Pass.

We accordingly started on what proved to be the roughest trip yet experienced.

Reaching the confluence of Simpson and Vermilion Rivers, we were delayed by a heavy rain, which fell as snow on the mountains. As soon as it cleared we started up the Vermilion, and were again overtaken by rain and snow, but, as we had just sufficient supplies left to sustain us until we could procure more at the railway, we were forced to move.

It was truly desperate work, everything and everybody being thoroughly soaked from the snow on the brush, and yet so cold was the air that when we camped it was a matter of considerable doubt whether or not any of us could take a pack off a horse or hold a match in our benumbed fingers to light a fire. Finally we reached Mount Bell, and leaving the party camped there, I started in company with one man for Castle Mountain station, on the Canadian Pacific Railway. For sixteen miles we

plodded through a blinding snowstorm, following an Indian trail, consisting mostly of a blaze on a tree here and there, and jumping our horses over windfall that seemed almost impassable. Having found a good crossing of Bow River we reached the station towards nightfall, thoroughly tired out, wet and hungry.

I took the train that night, went to Banff, procured supplies, and shipped them to Castle Mountain, from which point they were packed into camp without delay.

I found that the observing party had just reached Banff after occupying Chiniquy Lake, Ghost River, and Devil's Lake stations. Learning that Chiniquy Lake had not been observed from Devil's Lake, I gave instruction for the re-occupation of that station, made an examination of the readings taken, and instructed Mr. Dufresne to proceed to Wind Mountain after going to Devil's Lake.

I then returned to camp in Vermilion Pass and found from explorations carried on during my absence that although Mount Bell could probably be ascended, it was not suitable for a station, as it was glacier-capped.

We therefore separated into exploring parties of two each. After climbing seven mountains it was found that Storm Mountain, in the Summit Range, was the only one available.

Six stations will be observed from this point, and it is therefore easy to understand its importance and the difficulty in selecting it.

On its location depended our chance of getting around the much higher and inaccessible Lefroy and Goodsir Ranges, but I think this can be very successfully done from the point chosen.

Having decided on the point we took our blankets and some provisions on our backs and followed up a small creek heading on the south-east side of Storm Mountain and emptying into the Vermilion.

This creek flows through a narrow, rugged gulch, which rises quite rapidly, so that at night we camped at timber line. Early the next morning we started for the summit and at eleven o'clock stood on the topmost point, 10,350 feet above the sea, as shown by the barometer.

It was a long, steep and laborious climb, but not dangerous.

The view was commanding and magnificent, so I took photographs of the surrounding country, and measured the azimuths and zenith distances necessary for their use in mapping.

While thus engaged the men were busy erecting a signal, and as it might be necessary to see it at a distance of some thirty-eight miles, it was built 12 feet high, 8 feet diameter at the base, and 2 feet at the top.

When coming up Vermilion Pass I had observed a low gap in the wall of mountains to the west, out of which flowed the West Fork of the Vermilion, but had not paid any particular attention to it.

However while exploring, and on Storm Mountain, I found that this gap extended through to the Ottertail Valley, and that the Indians use this pass instead of coming up what is known as the "Big Hill," in Kicking Horse Pass.

So far as I am aware, this pass has not been explored or mapped by white men, but from what I saw of it, I am inclined to think it might offer an alternative route for the Canadian Pacific Railway, enabling them to avoid the excessively heavy grade on the Kicking Horse, besides slightly shortening their line.

Vermilion Pass is easy of access and favorable to railroad construction.

Following up the West Fork of the Vermilion, the valley leads in a very direct line to the Ottertail, and this creek flows almost in a continuation of the same line to the Kicking Horse Valley.

It is difficult to judge the nature of a country when looking down upon it from a mountain top, as everything appears flat, but the valley seemed to offer such easy passage that during another season's operations a track survey of it should be made, with barometric determinations of elevations.

Having finished our work at Storm Mountain, we moved to Banff, which place was reached on 28th September.

Hearing that the observing party were at Canmore, I at once went there and found that they had met with a series of unfortunate delays, among others having one of their best horses killed on the railway track.

The season was so far advanced that it was a matter of doubt whether they could occupy all the stations at which signals had been set, so I decided to leave the Mountains, set the foot-hill signals, and measure the base, while the observing party continued their work in the mountains as long as the weather permitted.

Accordingly, I moved my party to Morley, from which point we went to re-set the Chiniquy Lake signal, which had blown down during a tremendous gale.

In setting the signal previously no guys had been used, but we now secured it with wire guys, and used this means on all signals set thereafter.

We travelled southwest from Morley some seventeen miles to a hill or butte near the north-west corner of the Sarcee Indian Reserve, and finding it suited to our purpose, placed a signal on it, and named the place "Sarcee Butte Station."

We then moved to Mitford, about two miles west of Cochrane station on the Canadian Pacific Railway. I had already selected station points to the north and west, but as it was getting late in the season, and the observing party were considerably behind, we began the base operations and neglected signal-setting until such time as it was needed.

An examination of the country showed that the portion of the Bow Valley between Mitford and Cochrane was best suited to a base location, so I at once selected the ground for this purpose and began an exploratory compass survey of the adjacent country to find its possibilities.

We found that a base of 8,120 feet could be had, and an expansion to a side of the main triangulation effected by occupying seven intermediate stations in addition to the two primary ones, the smallest angle used being  $43^{\circ} 24'$ .

A base was then ranged out and marking stakes 2 inches square driven solidly into the ground 66 feet apart; these were then sawed off to true grades at a height of about 2 feet from the ground. The ends of the base were marked by bars of 2 inch square bar iron, driven 3 feet 6 inches into the earth, and on the tops of the bars crosses were cut with a cold chisel, one cut being in the line of the base and the other at right angles to it, the crossing of the cuts being the points to which measurements were made.

The centre line was then marked on the tops of the intermediate stakes, and the base measured with a steel tape stretched at a constant tension of twenty pounds.

Two wholly independent measurements were made, with a resulting difference of but .036 of a foot.

When not occupied on the base work we were engaged in setting the various signals needed, so that but two days were lost during this time. The base measuring and signal setting were completed on the 7th day of November, and in the meantime the observing party had finished their work in the mountains and moved into the foot hills.

The weather being favorable, they made good progress, and completed their work on the 19th day of November, reaching Calgary on the 20th. I then stored our outfits, wound up the business of the survey, and on the 22nd of November left for Ottawa, where the returns of survey are to be made.

#### RESULTS OF SURVEY.

The primary triangulation extends from Cochrane, Alberta, to the summit of the Rocky Mountains.

The whole work necessitated the occupation of seventeen instrumental stations, which was performed between 8th July and the 20th November. About six weeks of this time was practically lost through smoke. Deducting this from the time between the given dates would give an average of over a station per week in ordinary weather, which was much better than had been calculated upon.

This result was obtained by travelling in all about one thousand miles through the mountains and foothills, in addition to twenty climbs of lofty mountains and twelve ascents of high foothills.

The angle-measuring instrument employed was a three vernier 6 inch altazimuth reading to  $\frac{1}{1000}$  of a degree or  $14''\cdot4$ .

The greatest side observed in the primary triangulation was 22·3 miles, and the least 11 miles; the greatest closing error in any triangle, as shown by the field calculations, being 26 seconds and the least 0 seconds. It must be noted, however, that the greatest closing error as given occurred in the expansion from the base with sides of less than six miles.

It had been decided to make the base measurement with a steel tape, and it was necessary to procure some apparatus for holding it in position. Having studied the matter, I devised a means which will perhaps be worth describing, as it gave good results. It is, I believe, unique, and cost but \$5·75.

When in Calgary I had two straining stakes made of one-inch round iron with square heads, on which fitted iron handles at right angles to the axis of the stake, and somewhat the shape of those on an ordinary chain.

One end of the tape was firmly lashed with snare wire to the end of a turnbuckle such as is used on the ordinary woodsaw, another turnbuckle being similarly lashed to the ring of a spring balance, its hook holding the free end of the tape. Lanyards of snare wire were in turn fastened to the free ends of the turnbuckles, and the straining stakes being driven at distances of about 3 feet from the marking stakes, the tape was then lifted into position and stretched by these lanyards, they being rove through the handles on the straining stakes, the handles permitting the lateral adjustment of the tape.

By means of the turnbuckle at the rear end the mark on the tape was made to coincide with the mark on the stake, and with the forward turnbuckle the tape was brought accurately to a tension of twenty pounds.

The forward mark was then made, the tape loosed, and the whole apparatus moved forward to its next position.

We also constructed a small tripod of willows, from which a thermometer was suspended, having its bulb about level with the tape.

This was placed at the half distance between marking stakes, close to the tape, and the temperature during the measurement of each length noted.

Measurements were made only during calm weather, as a very slight current of air sufficed to vibrate the tape to such an extent that accurate work was impossible.

The two measurements made actually differed  $\cdot242$  of a foot, but the mean temperatures differed  $3^{\circ}9$  Fahrenheit, so that using  $\cdot0000065$ , Professor Johnson's co-efficient for  $1^{\circ}$  Fahrenheit, I find the true difference to be but  $\cdot036$  of a foot.

This may not be the true co-efficient for the tape used, but the possible difference from the truth would not affect the result very appreciably.

The results given are in terms of the graduated length of the tape used; but I would draw your attention to the fact that although the Statutes say that every Dominion Land Surveyor shall have a standard of length stamped by the Department of Inland Revenue, and fix a heavy penalty for non-obedience, yet, I believe there is not at present, in the Dominion of Canada, any means by which the accurate length and constants of a 66 foot chain or tape can be determined.

The length might be found closely enough, so as not to seriously affect ordinary surveys, where short lines only are measured, but surveys of precision being undertaken, very serious discrepancies will arise from this cause alone, which may vitiate thousands of dollars worth of work.

It must be noted that any error in the base is multiplied throughout the whole work, and while an error in the length of tape would be multiplied but one hundred and twenty-three times in the base measured by us, yet, in extending the work through the triangulation for the distance of two hundred miles, the error in the length of tape would be multiplied sixteen thousand times.



In travelling through the mountains we found numerous traces of mineral wealth; but as we were not carrying on a mineralogical and geological survey, we conceived it to be no part of our duty to search out the deposits from which came the float found.

However, while exploring in Vermilion Pass, within twenty miles of the Railway, we came across some small veins of red hematite which evidently came from a large deposit in the vicinity.

We also found a vein of silver bearing galena cropping out about 12 feet wide.

Between Banff and Vermilion Pass we found a vein of red hematite from 3 to 4 feet wide, and within three miles of the railway.

From what I observed on Simpson River, I believe that a very large body of iron ore exists there, but this would have to be reached through Vermilion Pass.

I also believe that a deposit of magnetic ore exists in the vicinity of Storm Mountain, as float was found, and the disturbance of the magnetic needle was quite marked.

We frequently found float ore, which would tend to prove the existence of numerous deposits.

I also had a number of conversations with prospectors who, when they found I was not seeking information for private use, talked freely, and mentioned having found a number of veins, one of red hematite, specially mentioned as being of an average width of 15 feet and traceable for miles, easily reached, and within ten or twelve miles of the railway.

Prospectors have not been active in bringing deposits of iron ore to the notice of the public, as it requires a large capital for their proper development; and until now, such ores have been of little value in the Bow Valley. But the discovery of a great quantity of good coking coal at Canmore would seem to indicate that iron mines may be profitably worked in the near future.

Much fine timber, consisting of black pine, spruce, and Douglas pine or fir, was found in Simpson and Vermilion Passes, but the bulk of it lies west of the divide, and is not available to the North West Territories by water.

The only important body of timber, not under license, observed by us in the Bow Valley, lies at the mouth of Vermilion Pass, near a limit held, I believe, by the Eau Claire Lumber Company, of Calgary.

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

W. S. DREWRY.

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa, Ont.

## No. 14.

## REPORT OF J. J. McARTHUR, D. L. S.

## TOPOGRAPHICAL SURVEY IN ROCKY MOUNTAINS.

AYLMER, 25th November, 1889.

SIR,—I beg leave to submit to you my report on the topographical work performed by me during the past season.

I reached Canmore on 21st June, but up to 25th August dense smoke interfered with our operations, and we were seldom able to work more than one or two days in each week.

A wintry storm set in on 6th September, which lasted several days, and the great depth of snow on the mountains rendered climbing dangerous for some time afterwards.

The tract covered by my survey is about 350 square miles in area, and extends from the National Park east along Bow River. To the south of the valley it takes in a strip from six to ten miles in width, and extending to the east to about eight miles beyond the mouth of Kananaskis River.

To the north it covers all the country west of this point, and lying between the Bow River and the Park boundary.

We occupied fifteen triangulation stations, which, together with the setting of signals, necessitated making twenty-five ascents from 8,000 to over 10,000 feet above the sea.

I established twenty-five camera stations, and took 250 views. The plate used this year was the orthochromatic, which, I am happy to state, has given decidedly better results than that used last year.

Several of my stations were located in the foothills. I cannot help remarking on this beautiful ranching country, with its luxuriant vegetation, pure water, and well sheltered valleys.

From one of the high hills in the neighborhood of Morley a beautiful, diversified scene meets the eye; all around are foothills, their summits mostly covered with large pines, whose deep green contrasts pleasantly with the bright color of the faded grass which covers the slopes and valleys.

In every direction we see herds of cattle and horses, with here and there an Indian habitation, for it must be borne in mind that the greater part of this beautiful tract is included in the Stoney Indian Reserve.

We can trace the cañon banks of Bow River, running for miles through a level plain. To the west rise the Rocky Mountains, stern and forbidding, their gilded snow-capped peaks piercing the sky, while at their base, nestling in trough-like depressions, are numerous lakes, their surfaces glistening in the sunlight.

An attractive point in this neighborhood, the beautiful Kananaskis Falls, are situated a short distance from the mouth of Kananaskis River.

After being reinforced by the latter stream, the Bow descends through a tortuous walled channel in a succession of chutes for a couple of hundred feet, and then falls through a gateway of rock, a distance of 25 feet.

From the cañon below the large expanse of broken water, and the walls of rock, with the towering peaks of the Rocky Mountains in the background, forms a picture both wild and fascinating.

The coal deposits in the neighborhood of Canmore have been extensively prospected during the past season.

Outcrops have been followed along the Bow River valley from the Cascade River as far as the Gap.

These deposits are regarded as belonging to a much later geological period than those of Pennsylvania. The latter belong to the Carboniferous age, while the former are found chiefly in the Cretaceous or Tertiary period.

Some of the seams which are being worked by the Anthracite and Brinkerhoff Companies are in places from 12 to 14 feet thick.

The value of these coals is unquestioned, and they derive an additional importance from their geographical position.

Diligent search for iron is being made; and, from indications, it is expected that it will be found in this neighborhood.

Should the search prove successful, these two minerals will supply the chief requirements for the development of the resources of this vast mountain and prairie country, and we may safely predict a prosperous future for the new town of Canmore.

I have the honor to be, Sir,

Your obedient servant,

J. J. McARTHUR,

*Dominion Land Surveyor.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa, Ont.

## No. 15.

## REPORT OF A. SAINT CYR, D.L.S.

## DETERMINING LIMITS OF RAILWAY BELT, BRITISH COLUMBIA.

SICAMOUS B. C., 22nd November, 1889.

SIR,—I have the honor to report as follows on my surveys of the past season.

These surveys were for the purpose of determining the limit of the railway belt at all accessible points between Leancoil and Sicamous stations.

According to your instructions dated 23rd April last, I proceeded to Golden City, B.C., in order to commence my work. I began by traversing the right bank of the Columbia River from Golden City to Beaver station, with the object of fixing the areas of the sections adjacent to the river. In the measured distance of 34 miles numerous tributaries swell the waters of the Columbia: on the right, the Wapta River enters the Columbia one mile below Golden City, Blaeberry Creek two miles below Moberly, and the Wait-a-bit and Blue Water Creeks at distances of one mile and two and a-half miles respectively below Donald; on the left, the Beaver River, which flows into the Columbia one mile below the Beaver station, is the only tributary of importance. There are two rapids, short but dangerous, on the Columbia River between Donald and Beaver. The first, named "Cañon Rapid," is half a mile below the mouth of Blue Water Creek; the other, Kitchen Rapid, is three miles and a-half above Beaver. Between Donald and Golden the Columbia River winds through a valley of which the width varies between 10 and 12 miles. This valley is bounded to the left by a range of high mountains, known as "Dog Tooth Mountains," of which the eastern slope is covered by a forest of fir and spruce of good size. The western slope of the Van Horne Mountains, which confine the valley on the right, is entirely bare, but close to the river there is occasionally a fringe of spruce.

I was informed that good timber would be found in the valley of the Blaeberry and Blue Water Creeks, and also along the Black Water, an affluent of the Blue Water; but I shall be able to furnish better information on these points when I have made the traverse of the Blue Water.

From Beaver I continued the survey along the Columbia River as far as the limit of the railway belt, which crosses the river 70 chains below the head of the "Surprise Rapids." In the distance of twenty-five miles, following the windings of the river, the mouth of three considerable streams were seen; on the left Eight-Mile River and Gold River, and on the right Bush River. This last river joins the Columbia three-quarters of a mile below the Gold River. It has a width of 70 rods at its mouth, and is navigable for 30 miles. For 20 miles up this river large flats extend on each side as far as the hills, which are a mile distant from the river banks. The valley of the Gold River is of the same nature. From the mouth of the Beaver River to the limit of the railway belt, the eastern flank of the Selkirk Mountains, which bound the valley of the Columbia to the left, is well wooded with spruce, fir and cedar, averaging 20 inches in diameter. Pine is also found, but in small quantities. In the part of the valley to the right from the Beaver to within two miles of Bush River the forest has been to a great extent destroyed by fire. What remains of the timber is in narrow strips here and there on the mountain sides and along the ravines, or on the flats bordering the river. On these flats I frequently noticed cedar of 30 inches diameter; the spruce averages about 20 inches. Two miles above Bush River the forest again occupies the valley and also covers the left bank of that river for a distance of more than 20 miles from its mouth; on the right bank, what timber remained has been recently destroyed by fire. There is good timber along the Columbia River near the limit of the belt, comprising spruce

of 24 inches diameter, pine 24 inches, cedar 36 inches, and balsam 15 inches. One mile further down the *brulé* recommences and extends almost without a break to the south end of Lake Kimbasket, 20 miles away. Throughout this distance the eastern slope of the Selkirk Mountains is timbered with spruce, cedar and fir, averaging 15 inches in size. There is but little timber on the shores of Lake Kimbasket, which is eight miles in length. The Big Bend Rapids, which begin at the outlet of the lake, extend over more than 20 miles, ending three miles before Canoe River is reached. Along this stretch of the river we found timber of the following kinds in abundance: spruce 30 inches diameter, pine 24 inches, cedar 36 inches, and hemlock 36 inches: From six miles above Canoe River down to the mouth of that stream the original forest has been burnt and replaced by a second growth. After receiving the waters of Wood River and Canoe River, which discharge within a short distance of one another, the Columbia suddenly changes from the north-westerly direction in which it flows from Beaver downward, making a sharp turn to the south round the northern extremity of the Selkirk Mountains. Here these mountains lose the rugged aspect that they present when seen from the east; the glaciers and snow-covered peaks disappear and give place to a long succession of well wooded hills which slope gently down to the river. The timber on these hills does not exceed about 15 inches diameter. This description applies to the ten miles below the Canoe River.

The eastern slope of the Gold Range which now bounds the valley to the right is well wooded with fir, spruce and cedar of 30 inches diameter. At Smith Creek, 40 miles below Canoe River, there is also good timber, much of it cedar of large size. Ten miles further down we pass "Gold Stream." This river has several affluents and they all bring down gold. It is in consequence a station of some importance for miners, who find coarse gold here in considerable quantity. A good road connects this place with Revelstoke. Good timber is said to exist on the banks of Gold Stream. Ten miles below this begin the rapids called "Dalle de Mort." The timber along these rapids has been destroyed by fire. Between the "Dalle de Mort" and Carne's Creek we passed several gangs of Chinese engaged in washing for gold in the Columbia River. From Carne's Creek (where the Columbia River crosses the limit of the railway belt above Revelstoke) down to, within two miles of the Big Eddy, the valley is well wooded on the right with spruce and fir 15 inches in size; some pine is also seen on the high ground. The Big Eddy mentioned above is the only place between Beaver and Revelstoke where logs cut on the Columbia can be enclosed in booms: 50,000 logs could be boomed here. On the left of the Columbia River, from Carne's Creek to within half a mile of Eighteen Mile Creek, there is good timber (cedar 30 inches, spruce 24 inches). In the next ten miles, which brings us to "Petites Dalles," fires have made great havoc among the woods near the river. Some good timber, however, remains, including cedar of considerable size. In the neighborhood of Revelstoke all the timber has been killed by fire.

From Revelstoke I continued the traverse of the Columbia as far as the southern limit of the railway belt. I saw but little merchantable timber in the first six miles. Between the Illecillewaet and Akolkolex Rivers what little wood has escaped the fires is found in small strips here and there on the hills to the left of the Columbia. It consists principally of spruce and cedar from 12 to 15 inches in diameter. On the flats the cedar is often from 24 to 30 inches. From the Akolkolex to the limit of the belt there are also fringes of spruce, cedar and pine. The eastern side of the valley is somewhat better timbered, the wood being spruce, cedar and hemlock 15 inches in diameter. The best timber, however, is met with on the last ten miles before crossing the belt limit. It is mostly cedar, spruce and pine, averaging 20 inches in size.

From Revelstoke I went to Sicamous, from where I was to determine the belt limit on the East Arm and Seymour Arm of Lake Shuswap. I made a traverse of the east shore of the lake from Sicamous to the mouth of East Arm River.

The shores of the lake in the part surveyed are extremely rocky, in some parts consisting for long distances of cliffs of great height which are almost perpendicular. The only wood which grows on the high lands near the part surveyed of Lake

Shuswap is fir, and that not exceeding 12 inches in diameter, and only in scattered groves.

Lake Shuswap swarms with excellent Silver Trout and Salmon Trout, the latter often attaining a weight of twelve pounds.

The East Arm River, on which I was instructed to mark the limit of the railway belt, being found unnavigable, I began to run section lines from the extremity of the East Arm, in order to reach the limit. These lines pass through a fine forest of cedar (8 feet diameter), white pine (2 feet), fir (16 inches), and hemlock (3 feet). This forest stretches along the East Arm River and extends to Seymour River twelve miles north of the East Arm.

On the completion of my work in this locality I intend to begin the survey of the South Pass, Eagle, Beaver, and Beaverfoot Rivers.

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

ARTHUR SAINT CYR,  
*Dominion Land Surveyor.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa.

## No. 16.

## REPORT OF A. DRISCOLL, JR., D.L.S.

## SUBDIVISION SURVEY AND TRAVERSES IN BRITISH COLUMBIA.

KAMLOOPS, B.C., 7th December, 1889.

SIR,—I have the honor to submit the following report on the surveys performed by me during the past season of portions of the railway belt in the Kamloops' and Ashcroft districts, British Columbia.

In accordance with instructions from you, dated the 23rd of April last, I proceeded to Vancouver and New Westminster, to make preparations for my season's operations. I then returned to Kamloops, and commenced the subdivision of Townships 21, 22 and 23, Range 16—this, as well as all other work upon which I was engaged this season, being west of the Sixth Initial Meridian.

On completion of the greater portion of these townships, I proceeded to Eight Mile Creek, which is situated about that distance east of Ashcroft, and, connecting with Mr. Garden's survey of 1887, worked along the creek to its intersection with Semlin's Valley, which runs north-east, connecting the valleys of Cache and Deadman's Creeks. In this survey, and in the survey of Semlin's Valley, I performed work in portions of Townships 21, Ranges 23 and 24, and Township 22, Range 22. From the junction of this valley with Deadman's Creek, I carried my survey along the latter through Townships 22 and 23, Range 23, to within a few miles of the northern boundary of the railway belt. This concluded the survey of the arable land in this vicinity. From there I went to Oregon Jack's Creek, situated about eleven miles south of Ashcroft, and performed considerable survey work in Townships 19 and 20, Range 25.

While at work here, settlers from that creek anxiously requested me to visit their places and locate them. As the season was closing I therefore shortened my work here and made a hurried trip to their claims, and picking up the termination of Mr. Garden's survey near the mouth of the creek, I ran a straight line south, with the exception of a jog of a mile, through Townships 21, 20 and 19, Range 26, locating settlers as I went.

This finished my work of the season, and a description of the preceding localities may now be of some interest.

Between Kamloops and the north boundary of the railway belt, on the east side of the North Thompson River and extending eastwards about 10 miles, lies a country with considerable slope to the west. It is partially timbered, but through its centre and running north and south is a long open valley, containing numerous lakes and creeks. Along these creeks are many good flats of land, which squatters were ready to occupy as soon as they were surveyed. This locality is much favored with rain, which is attributed to the dense belt of fir extending eastwards. This, of course, makes it require far less irrigation than is customary.

Semlin's Valley, which joins Cache and Deadman's Creeks, does not average more than half a mile in width, and in some places the sides meet. Cache Creek could be made to irrigate a part of it, but all other streams are recorded, and the only cultivated land in the valley is a dairy farm, which is owned by C. Semlin, M.P.P. At the junction of this valley and Deadman's Creek is an Indian Reserve, which extends from here south to the Thompson River, and contains about 3,500 acres; but, like all large blocks of land in this country, it is mostly pasture. It has, however, on both sides of Deadman's Creek (which runs through its centre), many large flats of good land, which may be converted into excellent farms, especially as the supply of water is of easy access and unlimited quantity.

It is a pity that the Indians at the lower end of this Reserve do not emulate those at the upper, some of whom possess farms of which any man might be proud; but the lower end presents a very barren appearance, and gives a most wasteful look to land which might be worked with great advantage.

From the head of this Reserve and following Deadman's Creek north lie numerous arable flats, some of which are already and others about to be homesteaded.

Below Ashcroft, in the vicinity of Oregon Jack's Creek, is a purely stock country, the limited supply of water being scarcely sufficient to irrigate the small quantity of land which has been in cultivation these last fifteen years. The climate, though, is very mild, and if the stock get even a fair amount of grass off the hills they winter tolerably well; but the range having been long in use, the ranchers are reducing the number of cattle, and keeping them off it during the summer.

West of this district, and separated from it by high hills, lies the south fork of Hat Creek, which takes its source from within a few miles of Oregon Jack's Creek. The valley of this creek is about two miles wide, rather open, and plentifully supplied with water from Hat and Anderson Creeks. The present settlers, of whom there are quite a number, all settled here about three years ago, and the valley being about fifteen miles long, I have no doubt that there will be many more here soon. The location is rather high, but the crops grown this year were all that could be desired. Another advantage this valley possesses is the location of a coal mine here by Messrs. McNichol & Finney, of Ashcroft, who have discovered a most wonderful seam of coal in Section 12, Township 21, Range 27. At the time of my visit to it this autumn they had sunk a shaft 80 feet deep, and half way down had drifted in 50 feet, and in all their workings had struck nothing but coal. The quality is soft, and though not very good on the surface, it much improves as a further depth is attained. The C. P. R. authorities think so highly of it that they intend, I believe, to further develop it with a diamond drill, and if indications are still favorable, build a branch line to the mine, a distance of about 25 miles from Ashcroft, as the line would have to go, although it is only about 14 miles in a straight line. The working of this mine would be of great benefit to the surrounding country, and also to the C. P. R., which has at present to bring its supply of coal some hundreds of miles, either from the East or West. As directed, I here give the information gathered on the timber of the country covered by my survey. I should first say, though, that the part covered is not generally considered a timber-producing country, but rather a grazing one, and that situated as it is, away from any rivers or lakes, the timber treated of would not, on account of the expense of getting it out, be used for lumber purposes, until those great belts of timber contiguous to the South Thompson River and Shushwap Lakes were exhausted, which time is considered very remote.

About two miles up from the mouths of Hefferly and Sullivan Creeks, belts of yellow pine are seen, timber averaging from  $1\frac{1}{2}$  feet to 3 feet in diameter. The belts extend on each side of the creeks for about half a mile, and then begin to intermingle with the fir trees which grow on the hills, the fir being about the same size as the pine. Good timber is made from these trees, but on account of their being a long distance apart, an average yield to a square mile would not exceed 9,500,000 square feet. Twenty-five square miles could be obtained, necessitating, however, a haul with horses of from 4 to 10 miles; but as it would be all down grade the pull would not be very heavy.

In Semlin's Valley the yield would be about the same to a square mile, and the quality a mixture of yellow pine and Douglas fir, averaging from  $1\frac{1}{2}$  to  $2\frac{1}{2}$  feet in diameter. Egress from the valley could only be obtained by way of Cache Creek. Where the creek and valley join we found a wagon road, a charcoal pit, and the remains of an old saw-mill, which were in use here before the construction of the C. P. Railway. This valley would yield about ten square miles.

In the vicinity of Hat and Oregon Jack's Creeks the timber is only fit for building and fencing purposes.

Great satisfaction is expressed by the people of the surrounding country at the establishment of a land office in Kamloops, a want which was much felt, and also at



---

the report that the pasture land within the belt was to be open to purchasers at the same rate as Provincial land outside the belt. In fact, the feeling is general throughout this district that the Dominion Government is trying to meet the wishes of the people in all matters pertaining to the land within the railway belt.

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

A. DRISCOLL, JR, *D.L.S.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa.

## No. 17.

## REPORT OF J. A. KIRK, D.L.S.

SUBDIVISION OF TOWNSHIPS AND FIXING BOUNDARY OF RAILWAY BELT IN  
BRITISH COLUMBIA.

CAMP NEAR HARRISON, B.C., 2nd December, 1889.

SIR,—I have the honor to submit the following report on the surveys I have executed for the Department of the Interior this year.

In accordance with your instructions I proceeded to New Westminster, B. C., on the 5th of April.

Having made the necessary preparations for the work, I left New Westminster on the 18th of April to subdivide the lands at the lower end of Stave Lake. The first operation was to run a tie line from a survey station of the Canadian Pacific Railway to the place of commencement. The lands subdivided are portions of Township 18, east of the Coast Meridian, and Townships 3 and 4, Ranges 2 and 3, west of the Seventh Initial Meridian.

They lie for the most part along Cascade Creek—a name I considered appropriate, as the stream descends a mountain in a series of cascades. Reaching the adjacent bottom lands it flows in a westerly and north-westerly direction through Section 36, Township 18, east of the Coast Meridian, Sections 32 and 33, Township 3 (fractional), and Sections 5, 6, 7 and 12, Township 4, Range 2, west of the Seventh Initial Meridian.

The land for a width of from a quarter to one mile back from the creek on both sides is timbered principally with alder; the soil is rich sandy loam. Leaving Section 12, the stream pursues a more northerly course to Stave Lake, which it enters a short distance east of Stave River, the outlet of the lake. The character of the soil remains unchanged, the timber is mostly hemlock and cedar. The valley of Cascade Creek is fully 20 to 30 feet higher than Stave River, and is not subject to floods.

With an unusual freshet the creek might overflow; but the removal of accumulated *debris* from its channel would double its carrying capacity and overcome the difficulty. The creek is about 15 feet wide at the base of the mountain; three miles further on it is 80 feet.

Sheltered by mountains to the north, east and west, and well exposed to the sun, this valley will probably prove a good locality for fruit culture. Several of the claims are already occupied. When making the survey the settlers were away—probably at work elsewhere, as is the custom here in summer.

The next survey was fixing the boundary of the railway belt by traversing Harrison River and both sides of Harrison Lake to the twenty mile limit. On this work a Lugeol micrometer was used to measure distances. Five readings were taken for each course, their mean being afterwards reduced to Gunter's chains.

Astronomical observations for azimuth were taken at frequent intervals, and the angular measurements converted into astronomical bearings. The boundary of the railway belt was determined in the manner prescribed in your instructions, and at its intersection with those lines large posts, marked R.B.L., were erected in stone mounds.

Harrison Lake may be considered an expansion of the Lilloet River. This river rises near the fifty-first parallel, and flowing south-easterly through a narrow valley, it widens for the last forty miles of that course into Harrison Lake. Within half a mile of the foot of the lake, on the west side, a channel suddenly opens to the south-west, through which the waters—now known as Harrison River—find their way for ten miles further, and then fall into the Fraser River, close to Harrison Station. Both river and lake are navigable for steamers similar to those in use on the Fraser. Mountains from three to eight thousand feet high rise from both shores.

The railway belt extends over twenty miles up the lake on the east side, and over eighteen miles on the west side. Within this limit there are two large islands,

named Long and Echo Islands, respectively; and several streams discharge their waters into the lake through narrow valleys, or down the mountain slopes in beautiful cascades.

The distinctive features of the opposite shores differ widely. On the west side from Harrison River, north, the mountains rise gradually from the shore without a break, the crest of this long ridge attaining its greatest elevations far inland. A few small streams, or rather torrents, rush down the slope, the most conspicuous being Eagle Falls, which enter the lake with a plunge of about 50 feet.

These falls are nearly ten and a-half miles from the foot of the lake. Four and a-half miles north of this point the lake attains its greatest width—five and a-half miles. Long Island extends northerly over five miles from a point almost directly opposite Eagle Falls, and Echo Island—remarkable chiefly for its bay with seven echoes—lies about five miles to the south.

The east shore is broken by valleys, and the mountains are precipitous.

The Rainbow Falls, six and a-half miles from the lower end of the lake, decidedly the most beautiful of the many objects of interest on the lake, dash from ledge to ledge down the mountain side for 1,700 feet, in a succession of falls varying from 70 to 300 feet. Glimpses of some of the higher cascades are seen from the lake.

A judicious trimming of the trees would reveal at one view the fascinating beauty of this wild scene. At present, owing to the labor of climbing the mountain, the higher falls are seldom visited.

Continuing up the shore twelve and a-half miles we come to Silver Creek, the largest stream entering the lake within the limits of the railway belt. Canoes can be poled up for two miles from its mouth, but from this point numerous rapids make further progress impossible. The valley through which it runs—the first mile of which I subdivided—is broken with spurs from the adjacent mountains, and varies in width from a quarter to half a mile. The soil is a sandy loam of good quality.

Fir and cedar 1 to 5 feet in diameter grow in the bottom.

The valley in which Harrison Lake lies extends southerly to the Fraser.

Some progress has been made in regard to a knowledge of the resources of this district. Close to the south shore two mineral springs, possessing remarkable medicinal properties, issue from the mountain side at a high temperature. They are known as the St. Alice Wells, or Harrison Hot Springs. Near by a town plot has been laid out, and a first-class hotel erected. Limestone near Eagle Falls, sandstone and marble above Rainbow Falls, a pigment pronounced by experts to be sienna earth, near Silver Creek, a bed of brick clay underneath the town plot, and several silver-bearing lodes, are said to have been discovered. Doubtless, further prospecting would soon swell the list.

The mountains are well wooded with Douglas fir of inferior quality and size: the timber mentioned as growing in the Silver Creek valley is of good quality, but limited in area. On the opposite shore, from a point a little more than fifteen miles up the lake to beyond the limits of the railway belt, there is a belt of timber extending back perhaps a mile and a-half, similar to that of Silver Creek, known as "Martin's Limit."

Trout abound in the creeks, and on the hill sides grouse are plentiful. Later in the season, when snow drives larger game to lower levels, deer, goats, mountain sheep, black bears, and sometimes the formidable grizzly, afford splendid sport.

This work being completed, I proceeded to the south bank of the Fraser, to complete some surveys in Township 27, east of the Coast Meridian, where I am now engaged.

With the exception of the inconvenience arising from the smoky atmosphere in July and August, the season has been very favorable for surveying, the rainfall being light, and the mosquito a *rara avis*.

I have the honor to be, Sir,

Your obedient servant,

E. DEVILLE, Esq.,

J. A. KIRK, D.L.S.

Surveyor-General, Ottawa, Ont.

## No. 18.

## REPORT OF JOHN VICARS, D.L.S.

## SURVEY IN NEW WESTMINSTER DISTRICT.

VANCOUVER, B. C., 2nd December, 1889.

SIR,—I have the honor to submit the following report of my operations during the past season.

Acting under your orders I left Cannington on 1st May and proceeded to Vancouver, B.C., where I received my instructions for the season's operations.

After a few days' delay in getting my camp equipage and supplies ready, I proceeded to Township 10, east of Coast Meridian, to perform some subdivision surveys which had been omitted in the first survey. These completed, I proceeded to Township 11, east of Coast Meridian, where I also made some subdivision surveys, which had been similarly omitted. Both these townships are admirably adapted for agricultural purposes. The soil is rich—principally loam. Both townships are entirely taken up by settlers, who have from one to fifty acres of clearance, mostly under crops, which, at the time I was there, were in a flourishing condition. I saw new potatoes dug on the 1st June.

The timber in Township 11 has practically been destroyed by fire, though certainly enough still remains for building and fencing purposes, or even to supply a portable saw-mill for a few years. The timber in Township 10 has also been greatly damaged by fire, though not to the same extent as in Township 11. Groves of timber containing from 100 M. to 500 M. feet can be found in almost any section in this township; and in Sections 19, 20, 21, 28, 29 and 30 there is a magnificent belt of timber containing not less than 200 million feet, of which two-thirds would be fir, and the remainder equally divided between spruce and cedar. Trees of from 8 to 9 feet in diameter and 140 feet clear of branches are not uncommon. I measured several which are larger. There are several large creeks running through this township, which, if properly cleaned and dammed, I have no doubt could be utilized to take out this timber.

Having finished the work in Township 11 I started for New Westminster Junction, from which point I traversed Coquitlam River and Lake as far as the northern boundary of the railway belt. The river northward from the junction is broad, rapid, shallow, and full of boulders and shoals. It is not navigable, but with some improvements, in the shape of side piers, it might easily be made available for transport of timber.

Six and a-half miles from Westminster Junction lies Coquitlam Lake, a beautiful sheet of water, having a length of about seven miles and a breadth varying from 25 to 40 chains. It has an altitude of 435 feet above the level of the sea, and is about to be used as a water supply for the city of New Westminster.

From Coquitlam Lake north the river is simply a succession of rapids and cascades, and it rapidly grows smaller until its source (a small lake) is reached. This is just within the railway belt, and from its shores some of the grandest scenery in the mountains was seen. To the south-east extended field on field of snow; to the south lay the valley of the Coquitlam, broken, rugged and narrow; to the west and north rose bare, rugged mountains, reaching to the clouds; and the lake itself lay in what looked like the crater of an extinct volcano.

There is little available agricultural land along the Coquitlam, though a few patches of from 50 to 500 acres may be found here and there. Its basin is heavily timbered with valuable trees, consisting of fir, cedar and hemlock in the valley, and cypress and larch on the mountains. This timber, in which cedar will predominate, should average at least 40 M. to an acre.

Having finished the Coquitlam traverse I next ran out certain section lines in Township 39, west of Coast Meridian, and then proceeded to Port Moody, from which point I traversed Burrard Inlet and the North Arm as far as Bidwell Bay. Here I was so much retarded by rain and fog that I did not consider the amount of work I was doing justified my remaining in the field in that locality any longer, so I returned to Vancouver, intending to close work for the season, when I received your instructions regarding verification survey in Township 5, Range 27, west of 6th Initial Meridian. This I will proceed to perform at once.

There is some fair agricultural land along Burrard Inlet which is mostly taken up for fruit or vegetable culture, for which it is admirably adapted.

One settler with whom I was speaking informed me he had raised four tons of strawberries during the past season, and sold them at an average of 10 cents per pound.

I have the honor to be, Sir,

Your obedient servant,

JOHN VICARS, *D.L.S.*

E. DEVILLE, Esq.,  
Surveyor-General,  
Ottawa.

## No. 19.

## REPORT OF EDGAR BRAY, D. L. S.

## SURVEY OF TOWNSHIP OUTLINES BETWEEN LAKES WINNIPEG AND MANITOBA.

OAKVILLE, ONT., 6th June 1888.

SIR,—I have the honor to submit the following report of my survey of block lines and other township outlines lying between Lakes Winnipeg and Manitoba, and of the country covered thereby.

I left Winnipeg on the 14th of October, and on the 17th we camped in the northerly part of Township 19, Range 4, west of the Principal Meridian.

From examination and enquiry I found that the posts in Townships 19 and 20, Ranges 3 and 4, were in a good state of preservation and the lines easily found.

In Townships 19 and 20, Range 5, no mounds were found. The lines are overgrown with brush, &c., and cannot be easily followed, while the posts shew the effects of age and frequently of fires, though some part of the post can nearly always be found in the ground. I cut out, in these townships, 40 miles of line, and set new posts in place of old ones.

The swamps being then sufficiently frozen to bear horses, I moved camp on the 28th October to Lundyville (Lilly Bay), where I stored my supplies, &c., and commenced cutting out a cart trail to the north, moving camp at the same time.

We were much delayed by a thaw which set in on the 3rd of November and lasted almost until we arrived at the 7th Base Line on 17th November. Here we were again delayed by clouds and snow which prevented my taking an observation until 24th November, when work was commenced by running the line between Ranges 6 and 7, west of the Principal Meridian, beginning at the 7th Base Line.

The work was continued all the winter, with only occasional delays, caused by snow storms, &c., which prevented sights along the line.

On 28th March I started for Winnipeg, and arrived there on the 2nd of April, when the party was paid off.

Below is a description of the country covered by my surveys.

*Meridian Line between Ranges 6 and 7, west of Principal Meridian.*

Township 25 is timbered land, with some hay marshes. The northerly section is covered with poplar and pine of fair quality. The remaining five sections are timbered with poplar, of which a considerable portion has been killed by fire.

The township is nearly level, and appears to have a very fair soil.

Township 26 is also nearly level land with some hay marshes. It is covered with woods of poplar, pine and spruce, the greater part of which has been much damaged by fires.

The soil is either sandy or clay loam and is of fair quality.

Township 27 is composed of nearly level land with a fair soil. It is mostly covered with pine, spruce and poplar, but the greater part of the wood has been killed by fire.

Township 28 is mostly good, level land, timbered with poplar, pine and spruce which has been more or less damaged by fire, except on or about Section 24, where the woods have not been injured.

At and near the north boundary of this township, the timber has mostly fallen and a new growth of pines has started.

*8th Base Line.*

In Range 6 there is windfall in Section 31, and part of Section 32, from which point, eastward, pine woods extend for about three miles, when marshy and swampy land occurs, extending east of the range.

The land is level and the soil good in Sections 31, 32, 33 and 34, and swampy in Sections 35 and 36 excepting on a couple of ridges found in Section 35.

Range 7 has a nearly level surface and is composed of good land broken by hay marshes. Part of Section 36 contains windfall or marsh, the rest of the section, with all of Section 35 and about one half of Section 34 is timbered with pine, spruce and some poplar.

Going west from the middle of Section 34 we find the timber all dead and mostly fallen.

Range 8 is generally good level land, broken by numerous hay marshes. Some dead and fallen timber is found in Section 36, but the remainder of the range is well timbered with poplar, spruce, tamarac, etc., frequently of good size.

Range 9 is composed of low ridges of good land, separated by hay marshes, the ridges being timbered with poplar, spruce, etc., of good quality, and frequently of very fair size. The west half of this range will be too wet for cultivation.

*Meridian Line between Ranges 6 and 7.*

Township 29 is fair level land, broken by marshes, excepting in Section 36 where a stony tract is entered.

Good timber of pine, spruce and tamarac has covered this township, but it is now nearly all dead and mostly fallen.

Fixed limestone rock can be found almost anywhere in Township 30, and therefore the soil is poor and shallow. Bluffs of green woods were passed in Sections 13, 25 and 36. Elsewhere the timber has been killed by fire, but is still standing.

Township 31 has a poor soil, the southerly four miles being rocky, while the northerly two sections are swampy. Sections 20 and 36 are wooded with small spruce and tamarac. Some pine was found in Sections 1 and 12. In other sections the timber is dead.

Township 32—The southerly three-fourths of Section 1 is swampy and covered with small spruce and tamarac. Next, a tract of good land was passed over, about 50 chains in width, covered with good spruce, poplar, tamarac and birch; then a hay marsh was crossed and Lake St. Martin reached in the north-easterly quarter of Section 12. The meridian was produced on the ice of Lake St. Martin to the 9th Base Line, and in Section 25 crossed a point of land on which there is an extensive hay marsh.

*9th Base Line.*

Range 7, Sections 36, 35 and a small part of 34, lie in St. Martin's Lake. The remainder of the range containing level land with good soil is covered with woods of poplar, spruce and tamarac, often of good size and quality, though in Section 6 the timber has been killed, and in some other sections somewhat damaged by fires.

Range 8 is composed of good land somewhat broken by hay marshes, and, excepting a ridge in Section 34, the surface is nearly level. The easterly sections of the range are timbered with mixed spruce, tamarac and poplar, while those to the west are covered with poplar woods with scattered spruce. This timber is mostly of good quality, but some tracts were found where damage had been done by fire.

Range 9 is good level land, alternating with marshes. It is mostly wooded with poplar and scattered spruce, the timber being often of considerable size. In Section 35 a rough, rocky tract was found, which probably is a part of the Gypsum Hills, though only common limestone was noticed. Where the line crosses this tract the elevation is only a few feet above the surrounding country.

*Meridian Line between Ranges 8 and 9.*

Township 32 has mostly a level surface, and, excepting a marsh in section 24, the soil is a good, dry sandy loam. It is timbered with poplar, mixed here and there with spruce, which is often of good size and quality. All the southerly half of this township has been overrun by fire and the timber somewhat damaged. Fire has also destroyed some timber in Section 25.

Township 31 is also comparatively level, and the soil generally a good, dry, sandy loam. It is wooded with poplar of fair size, which has been partly killed by fire.

*Meridian Line between Ranges 7 and 8.*

Township 32 is level land, and, excepting in the marshes, the soil is a good, sandy loam. Nearly the whole of the northerly three sections has been timbered with mixed woods of spruce, tamarac and poplar, but it has been very badly damaged by fires. The remainder of the township is wooded with poplar of fair quality. Section 1 lies in Lake St. Martin.

Through Township 31 the line was run on the ice on Lake St. Martin.

Through Township 30 the line for about a quarter of a mile of Section 36 and nearly all of the jog is on an island in St. Martin's Lake. This island is mostly wooded with poplar and birch, which is now partly dead. South of the lake (Sections 1, 12 and part of 13), the land is generally of fair quality, and is heavily timbered with mixed woods of spruce, pine, tamarac and poplar.

Township 29 is mostly good, level land with a fair soil of sandy loam. It is timbered with a mixture of spruce, pine, poplar and tamarac of very fair size, but in most of the southerly half of the township the woods have been very badly damaged by fires.

It will be noticed from the above that the timber in considerable portions of this survey has been badly damaged by fires, which appear to have swept through the country about two years ago. In some localities the timber has been entirely killed; and, as so much inflammable material now covers the ground, it is nearly certain that another fire will run over this tract and convert considerable areas into prairie. At present the dead timber is mostly sound, but of no value, as no means exist by which it can be taken to a market.

I believe the country in Townships 25 to 32, in Ranges 8 and 9, will be found more suitable for settlement than that lying farther east, as no rocky land was noticed in these townships.

It is an objectionable feature in this district that the land is very flat, and likely to be wet in rainy seasons. However, as plenty of hay land exists, stock raising will be profitable, more especially in some tracts near St. Martin's Lake, where very large meadows were noticed.

In this locality the winter season will probably be found the most favorable for surveying operations.

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

EDGAR BRAY, D.L.S.

E. DEVILLE, Esq.,  
Surveyor-General,  
Ottawa.



## No. 20.

## REPORT OF W. T. THOMPSON, D.T.S.

## SURVEY OF TOWNSHIP OUTLINES.

SIR,—Having completed the survey of the 4th Base Line and Meridians running north from it, between the 3rd and 4th Initial Meridians, on the 16th of August, 1882, I at once set out with my party for Edmonton *via* the Forks of the Red Deer River, from where I forwarded, on the 28th of August, a report on the above named survey; and, leaving on that date, struck out over the plains in a nearly direct course for Edmonton, where I arrived on the 16th of September. About one half of my supplies had arrived here by the last steamer, and I was informed by letter that the balance had been forwarded from Qu'Appelle by cart on the 1st of September and would probably reach Edmonton by the 15th of October. I arranged, however, with the Hudson's Bay Company and others for a supply of the leading articles of which I was short, to be replaced on arrival of carts, and as there appeared no probability of my being able to procure a York boat at Athabasca Landing, we set out on 22nd of September for the Pembina River, *via* the old cart trail of the Hudson's Bay Company, and arrived there on the 28th. Here a saw-pit had been constructed by Lloyd and Haye's party, who built a boat and went through to Lesser Slave Lake in the spring of 1882.

At this place we prepared two rough flat bottomed boats to carry the outfit and supplies, and on the 9th October, all the freight having arrived from Edmonton, we loaded the boats and started down the river, arriving without mishap at the mouth of Lesser Slave River on the 16th of October.

The country and journey from the Forks of Red Deer River to Edmonton and thence to the foot of Lesser Slave Lake, have been already described in my reports of progress dated 30th September and 22nd December, 1882. At the mouth of the Lesser Slave River I expected to find a Hudson's Bay boat to forward the supplies up the river, which is rapid and difficult to ascend. No boat being on hand I decided to advance the supplies as far as possible with the means at my disposal, and on the 1st of November reached the head of the rapids with the whole, a distance of 18 miles from the mouth.

Finding it impossible to proceed further with all the supplies, the greater portion were cached here, and with one boat containing the balance we reached the foot of Lesser Slave Lake on the 12th November, a distance of 53 miles from the Athabasca, having been much impeded for several days by floating ice in the river.

The ice had now begun to set on the river and lake, preventing our advancing further, and, the country eastward from the foot of the lake being low and marshy, work could not be commenced till the ice had formed over this region. In the meantime the party were employed preparing sleds for moving the camp, &c.

On the 12th of November I sent a messenger to the Hudson's Bay Company's post at the head of the lake for certain articles required, and requesting three dog trains to be sent down for camp shifting as soon as the ice had formed. On the 9th December, the ice being sufficiently strong, work was commenced by running eastward from the foot of the lake, and the dogs not having arrived the camp outfit was shifted on sleds drawn by members of the party.

On the 22nd of December two dog trains arrived from the head of the lake, after which we advanced more rapidly, and on the 16th of January reached the mouth of Lesser Slave River, a distance by the traverse lines of thirty one miles from foot of lake.

Here I blazed a tree, marking same station "O," and left a note for Mr. Ogilvie requesting him to send me a memorandum giving the position of this point in reference to his meridian, and then set out on our return.

The native drivers having become dissatisfied had left with their trains several days previously. We were now obliged to draw the sleds to the foot of the lake, where two fresh trains and drivers met us on the 22nd of January.

The traverse was now continued westward, towards the head of the lake, which was reached on the 9th of February, a distance by the traverse lines of sixty four miles from the foot.

From the head of the lake the lines were run in a general westerly direction, through lightly timbered country, towards the junction of the Little Smoky with Smoky River, which was reached on the 6th April, and camp shifted to the west side of the river.

The snow was now fast disappearing, and the country becoming so wet that work had to be discontinued, and the dogs and drivers were sent back to Slave Lake. I next employed myself making computations to correct and reduce the traverse, so that, upon hearing from Mr. Ogilvie, there might be no delay in determining my position.

On the 6th of May six pack horses were got in from Dunvegan, and finding from the assumed longitude of the mouth of Lesser Slave River that I had about thirteen miles yet to go before reaching the 118th Meridian, work was at once resumed, the line being continued westerly through densely timbered country, with numerous marshes and beaver ponds.

On the 31st of May a messenger arrived from Mr. Ogilvie, giving the position of my initial point at the mouth of Lesser Slave River, from which I found that I had yet two miles to go to reach the 118th Meridian, and on the same day the line was completed to the meridian.

I here took observations for latitude by transit over the Prime Vertical, and found the point of observation to be 5" too far south as compared with the computed latitude obtained from the length and direction of the line joining the initial and terminal points of the survey. The station, however, was not favorably situated, the Birch Hills lying close to the north and a depressed tract of country extending to Smoky River on the south, thus having a tendency to make the observed less than the geodetic latitude.

I therefore made only a small correction to the computed latitude, and commenced surveying the 6th Initial Meridian northwards, and temporarily posting the same, my intention being to obtain further observations at different points on the meridian, which, connected by the chaining, would give a closer value of the geodetic latitude. Up to the date of Mr. Ogilvie's arrival on the 20th of July, however, no further observations were obtained, owing to unfavorable weather, and he at once commenced the survey of the 21st Base Line, working westward from my meridian.

On the 10th August I had completed the survey of the meridian to the latitude of the 22nd Base Line, nearly at the summit of the White Mud Hills, which are covered with *brulé* and windfall, and finding further progress northward difficult, I concluded to turn west on this base, which, according to the map and Indian reports, would pass through comparatively open fertile country. It would also afford the means of fixing the position of the 120th Meridian or British Columbia boundary.

On the 20th of September a distance of 50 miles had been surveyed, and, supplies becoming scarce, I decided to complete the range upon which I was working (a distance of four miles), and return east.

On the above date three members of the party, with eight horses, were accordingly sent out to proceed *via* old Fort Assiniboine to Edmonton, my assistant leaving at the same time with one man to permanently post the meridian on the south side of Peace River, and then proceed *via* the Forks of Little Smoky River to Lesser Slave Lake, where he would await the arrival of myself with remainder of party. On the 22nd, however, a supply of provisions arrived unexpectedly from Dunvegan, and, the country becoming more open, I considered it advisable to continue to the boundary, which was reached on the 8th of October.

This completed the work for the season, and opening a trail southward to Peace River for the pack horses (a distance of ten miles), we reached it on the 10th. Here we constructed a raft to carry the party and baggage, and proceeded down the river

on the 12th, reaching Dunvegan on the 15th, where we obtained a York boat, and leaving on the evening of the 16th reached the Peace River Landing on the 18th. The horses which had been sent east *via* the Fort St. John trail arrived on the 20th. Four carts had been left here for me by the Hudson's Bay Company to carry the baggage, and leaving on above date we reached Lesser Slave Lake on the 25th. Here we obtained a York boat for the trip to Athabasca Landing, and set sail down the lake on the 26th. At Big Point we took on a pilot for the descent of Lesser Slave River, which, owing to low water, was reported difficult to navigate except for one intimately acquainted with the channel. On October the 31st we reached the Athabasca without mishap. Fragments of ice were now floating in this river, and the water was so shallow that our boat, though drawing only 18 inches of water, frequently grounded on the gravel bars. In high water, however, the depth varies from 10 to 20 feet.

We reached Athabasca Landing on the 3rd November, and travelled thence by cart to Edmonton, a distance of ninety-six miles. Here we were delayed from the 8th to the 12th, the ice on the Saskatchewan not being sufficiently strong to allow the horses and carts to cross. Leaving on the latter date, the party reached Calgary on the 22nd, and Winnipeg (by rail) on the 25th.

*Description of the Country in the Vicinity of my Lines of Survey.*

The country on both sides of the Lesser Slave River, as far as I have been able to ascertain, is densely timbered with spruce, poplar and jack pine. There are many spruce and tamarac swamps, alternating with poplar and jack pine ridges, the soil on the ridges being generally of fair quality. The country, generally, is not suitable for agricultural purposes.

Westward from the head of Lesser Slave Lake for about ten miles the land is low and marshy; thence west to within a few miles of Smoky River it is a slightly elevated plateau, containing a number of grass marshes, and broken by occasional ridges, and timbered with poplar and spruce, with the exception of a few openings made by fires and now partially overgrown with willows.

The soil is generally of fair quality, and a considerable portion of this tract is suitable for agricultural purposes. Along the east bank of Smoky River there is a belt of marshy or boggy land about two miles in width and extending some distance to the north. The banks of Smoky River, where the line crossed, are fully 400 feet high. In the valley there are some fine fertile benches, the largest containing about 300 acres, with prairie openings. Westward from the river to the 6th Initial Meridian, a distance of 15 miles, the country is densely wooded with poplar and spruce, and is somewhat broken by knolls and ridges, all the low ground being occupied by marshes and beaver ponds.

The wet condition of the country is caused entirely by beaver dams, which are found on every little creek.

Northward from the terminal point of my traverse to Peace River, a distance of eighteen miles, following the 6th Initial Meridian, the country is densely wooded, except a narrow belt on the north side of the Birch Hills. The surface is broken by knolls and ridges, and the low ground is occupied by marshes. The soil is a sandy loam of fair quality, with white silt subsoil.

Peace River was crossed on the 6th of July, about 25 miles east of Dunvegan. Here it flows with a strong current among islands, its width being nearly half a mile and depth about 25 feet in the centre of the channel.

Northward from the river the country traversed by the meridian is, with the exception of some small prairie openings, generally wooded. A part has been burnt over, leaving a good deal of *brulé*; there are some extensive grass marshes, and several muskegs. The soil, generally, is of very good quality. In the vicinity of the cart trail to Dunvegan, which was crossed eleven miles north of the river, the line passes through about two miles of prairie, and looking eastward extensive tracts of open prairie were seen. Twelve miles north of the trail the foot of the White Mud Hills was reached. These are covered with dense *brulé* and windfall, the timber

being chiefly spruce, from 10 to 40 inches in diameter. The greater part of the timber is still valuable, having been only slightly scorched by fire. Six miles from the foot of the hills the latitude of the 22nd Base Line was reached, and finding the country for a considerable distance to the north covered by a dense *brulé* and windfall, I did not consider it advisable to proceed further in that direction, and turned west on 22nd Base Line, which, according to the map and Indian reports, would pass through comparatively open country, well suited for agricultural purposes.

The north limit of Township 84, Range 1, west of the 6th Initial Meridian, lies in the White Mud Hills, which, as before stated, are mostly covered with *brulé* and windfall, and, the surface mould having been burnt off, the soil is generally inferior.

Range 2 is somewhat broken by hills and ridges, timbered with green poplar and some spruce, with a few small prairie openings.

Range 3.—The country is hilly, and timbered with poplar and spruce; good loam soil, with white silt subsoil.

Range 4.—Surface undulating, timbered chiefly with poplar, except Sections 32 and 33, which are nearly open prairie. On section 33 a small creek, tributary to Island Creek, was crossed.

Range 5.—Surface nearly level. Sections 35, 34 and 33, prairie and bluffs; the remaining sections timbered with poplar and willow, with some spruce *brulé*. Soil of excellent quality.

Range 6.—Level country, generally burnt over. We crossed the east fork of the Montagneuse River in Section 36; its valley is 200 feet deep and half a mile wide; the river is 50 links wide and 1 to 2 feet deep, and very rapid, flowing over stones and boulders, its depth in high water increasing to 6 or 8 feet; the valley is covered with dense *brulé* and windfall. The west fork of the same river was crossed in Section 33; the banks are 150 feet high, and the creek 10 links wide. Soil of excellent quality.

Range 7.—Land generally low and swampy, alternating with fine poplar ridges.

Range 8.—Sections 36, 35 and 34 are much broken by deep ravines running down to Peace River, which is about half a mile south of the north-east angle of Section 35. The above named sections are covered with spruce and poplar *brulé*; the remaining sections are timbered with large poplar. The soil is clay loam of excellent quality; subsoil clay.

Range 9.—Surface level, timbered with poplar, jack pine and spruce; occasional marshes and swamps. The soil is generally of good quality.

Range 10.—Level country, partly burnt over; a few ridges of jack pine and poplar, remainder *brulé*, with second growth of willow. Soil, class 1.

Range 11.—Level country, covered generally with jack pine *brulé* and windfall, and second growth poplar and willow. We crossed the Clear River at the north-east angle of Section 32, the valley being one mile wide, and the banks 450 feet above the river, which is about 50 yards wide and from 1 to 3 feet deep, rising to 10 feet in high water.

Range 12.—Sloping to west; timbered with fine green spruce and poplar, with some *brulé*. Soil, class 2.

Range 13.—Sections 36 and 35, spruce muskeg; Sections 34 and 33, covered with poplar and jack pine *brulé*. Soil, class 2.

#### DESCRIPTION OF PEACE RIVER.

From the mouth of the Clear River to the landing, which is about three miles east of the forks of Smoky River, I made a running traverse of Peace River, taking numerous soundings. Between these points the river flows in a trough-like valley from 700 to 1,000 feet deep, and one to three miles from rim to rim. At the Clear River perpendicular exposures of a whitish sandstone of compact structure rise from the water's edge to a height of 20 or 30 feet on both sides. About six miles down the river exposures are seen several hundred feet above the water; here the sandstone has been much eroded, leaving pillars and very picturesque forms; outcrops were seen at intervals all the way to the landing.

The depth of the river was found to vary from 3 to 30 feet, the former being near the mouth of the Montagneuse River, where the channel is broken by islands and sand bars. In high water, however, the depth in the shallowest part must be at least 15 feet.

The width varies from 1,000 to 3,000 feet, and the current from two to six miles per hour. The south bank is densely wooded with spruce and poplar, with some birch at intervals; the north bank is generally sparsely wooded with a light growth of poplar, and in many places is quite open. There are few benches of any extent, except at Dunvegan, and again near the forks of Smoky River. On the north side of the Peace River there are some fine extensive benches, elevated from 20 to 80 feet above the river, and well adapted for agricultural purposes.

The following streams, affording suitable sites for mills, empty into the Peace from the north, viz., Clear River, Montagneuse River, Little Burnt River, and a large creek six miles west of the Landing.

From the Landing to Lake Athabasca I am informed by officers of the Hudson's Bay Company that no impediment to navigation exists, except at the Falls, below Fort Vermilion, 120 miles west of Athabasca Lake. The fall is said to be 10 feet, and I am informed on the same authority that locks could be constructed to pass this obstruction without great expense.

I may point out that from the east end of Athabasca Lake to Fort Churchill, on Hudson's Bay, the distance is somewhat less than 400 miles. The intervening country is reported as level, and containing a number of muskegs.

#### GENERAL REMARKS ON THE PEACE RIVER COUNTRY.

On the fertile tracts in the Peace River Basin the following are the most accessible, and, as far as I could ascertain, the best suited for agricultural purposes:

1st. The Grand Prairie region lying thirty miles south of Dunvegan, and bounded on the east by Smoky River, containing about 230,000 acres. The soil is described by Dr. Dawson as of the finest quality; the surface is diversified by aspen ridges, and serviceberry coppice; the Indians collect large quantities of serviceberries here and dry them for future use. This region is described by the officer in charge of the Hudson's Bay Company's post as being a very fertile and beautiful tract of country. The distance from the east limit of the Grand Prairie in a nearly direct course to Edmonton *via* Dirt Lake is 240 miles, while by the usual land and water route *via* Athabasca Landing and Lesser Slave Lake it is 450 miles. From what I can ascertain, it would be quite practicable to construct a road in a nearly direct course, as stated above, and this would afford the best means of access to the Grand Prairie region, and the road could then be continued to Dunvegan, a distance of thirty miles, which would give connection with Peace River and the country to the north.

2nd. The country in the vicinity of the trail from Peace River Landing to Dunvegan, a distance of 65 miles, is mostly prairie, dotted with bluffs of poplar and willow; the soil is very fertile and appears to be well adapted for agricultural purposes. Between the Little Burnt River and Dunvegan, a distance of about 20 miles, the country is very fine; extensive prairie openings are separated by bluffs of large-sized poplar, the approximate area of prairie and bluffs being 300,000 acres.

3rd. From Island Lake to the British Columbia boundary, following the Fort St. John trail along the foot of the Clear Hills, there is a considerable amount of fine prairie land, most of this tract lying north of the 22nd Base Line. Approximate area of prairie and bluffs, 100,000 acres.

4th. Besides the foregoing, there are the following fertile prairie tracts, viz., small areas of prairie south of Dunvegan, the White Mud prairie lying about 20 miles north-west from Peace River Landing, and the Battle River prairie, lying north of Battle River. As to the tract lying north of Battle River, I have been unable to get any accurate information. It is stated, however, that the trail to Fort Vermilion passes through a large amount of prairie and bluffs. Except the tracts above described, the country is generally densely wooded with spruce and

poplar, the former from 10 to 40 inches in diameter, and the latter sometimes reaching 20 inches. The spruce, especially, is well suited for lumber, spars, &c.

The map sent herewith shows in a general way the distribution of prairie and woodland, and the leading topographical features of the country.

But little attempt at farming has yet been made in the Peace River country. At Dunvegan the Hudson's Bay Company and Roman Catholic Mission have each, for a number of years, cultivated a few acres of land in the valley, growing wheat, barley, and the different kinds of vegetables successfully.

In the spring and summer of 1883 there were a number of severe frosts, from which the crops of vegetables at Dunvegan suffered to some extent. The grain, however, was not injured. The yield of wheat on the Hudson's Bay Company's land was estimated at 30 bushels per acre; at the Roman Catholic Mission 20 bushels were raised on one-third of an acre, which had been very carefully cultivated. No attempt at cultivation worthy of mention has yet been made on the upland, but the fertility of the soil is indicated by the rank growth of wild vegetation.

At Lesser Slave Lake the Hudson's Bay Company cultivate successfully grain and vegetables, and some of the natives raise small quantities of potatoes. At Sturgeon Lake and at Bear Lake, north-west of the Peace River Landing, potatoes are also successfully grown by the natives.

It is but right to state that according to those who have resided for a number of years in the Peace River country frosts, either in spring or summer, are very unusual.

In the latitude of Dunvegan the sun is above the horizon nearly  $17\frac{1}{2}$  hours on the 22nd of June, and its greatest angular distance below the horizon on that date is only  $10^\circ$ . There is no actual night, the twilight being sufficiently strong to enable one to see objects distinctly at a short distance. The amount of sunlight in summer compensates to a great extent for the loss of heat due to the obliquity of the sun's rays, as vegetation was observed to be very rapid and luxuriant.

#### *Climate.*

Regarding climate, I may state my own experience.

On the 28th September, 1882, and following days, snow fell at the North Pembina River to a depth of 8 inches; on the 9th October, however, it had all disappeared, and we had fine weather until the 1st of November, when it became cold and raw, with flurries of snow; by the end of January the depth of snow reached its maximum,  $2\frac{1}{2}$  feet, in the vicinity of Lesser Slave Lake.

Very cold weather was experienced in the beginning of December, and again for the first two weeks in January, 1883, when the lowest temperature recorded at Dunvegan was  $57^\circ$ . With the above exception, the winter compared favorably with that of Ontario; we had no weather of such severity as to prevent work on the line; and, living in canvas tents, did not find it uncomfortable, except in the cold periods above named. On the 20th March the snow began to disappear; on the 15th April the ice broke up on Smoky and Peace Rivers, and the open prairie was clear of snow, while in the wooded parts it did not entirely disappear until the 10th of May. On the 24th April I saw a number of flowers on the north bank of Peace River, and from that date onward vegetation advanced rapidly.

The spring and summer were cool and cloudy, with light showers of rain and occasional frosts (the latter, I was informed, were quite unusual). The weather continued open and pleasant until the 1st November, 1883, when snow began to fall. It is proper to state that traders and others who have resided for a number of years in the Peace River country as well as in other parts of the North-West, consider the climate of the former much the most favorable, and state that summer frosts in that region rarely occur.

#### *Outlet for Products.*

From the above description it will be seen that the fertile portion of the Peace River country is almost completely separated from Edmonton and the North-West

by an extensive tract of broken and inferior country, and until the means of access are improved, either by opening up a road in the direction previously indicated, or the construction of a railway, it cannot become settled to any extent. Agricultural implements and the different articles required to commence operations must be brought in from Edmonton, but the agricultural products of Peace River can never be profitably exported in that direction. There are, however, the Peace and Mackenzie River districts, which, could be directly supplied. These consume a considerable quantity of flour, &c., which is now being brought from Edmonton and British Columbia, and which, owing to the difficulties of transport, sells at a high price; but the demand being limited could be supplied by a few well cultivated farms. For an outlet to the great European markets one must look to Hudson's Bay.

On the Peace River, from the Rocky Mountains to Lake Athabasca, there is only one impediment to navigation, viz., at the falls, 120 miles west of Lake Athabasca, which, as before stated, could be passed by means of locks, thus giving continuous navigation to the east end of that lake; and thence to Fort Churchill on Hudson's Bay, a distance of about 400 miles, the country is reported generally level and swampy, and it is probable would admit of the construction of a railway.

Should the Hudson's Bay route prove practicable, it is evident that the country drained by the magnificent Peace River is perhaps more favorably situated in regard to it than any other part of the North West.

*Fish, Game, &c.*

Lesser Slave Lake abounds in whitefish upon which the natives residing there almost exclusively exist; salmon trout and pike are also found in smaller numbers.

In the spring and fall large numbers of ducks, geese, cranes and swans are found at this lake. Whitefish Lake, lying to the north about a day's journey, also abounds in fish and wild fowl, and in Smoky River brook-trout and gold-eyes are found; but very few fish are obtained in the Peace River. Near the mountains all the streams are said to abound in brook-trout.

Moose are found in considerable numbers in the vicinity of Smoky and Peace Rivers, and at Dunvegan dried moose meat forms one of the staple articles of diet. Bears are also very plentiful in the vicinity of these rivers; three varieties being found, the black, cinnamon and grizzly. In the wooded parts the Canadian partridge or ruffed grouse are found in large numbers, and prairie chickens in the open parts.

The following fur-bearing animals are still plentiful, viz: beaver, musk-rat, otter, fisher, mink, fox and lynx.

In conclusion I may state that, owing to the great expense attending the transport of supplies to the Peace River country, I do not consider that it would be advisable to prosecute surveys extensively there at present.

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

WM. T. THOMPSON, *D.T.S.*

E. DEVILLE, Esq.,  
Surveyor-General,  
Ottawa.

## No. 21.

## REPORT OF C. F. MILES, D.L.S.

WALKERTON, ONT., 27th December, 1889.

SIR,—I have the honor, in accordance with my instructions, to submit the following report on my last season's surveys in the southern part of the District of Alberta.

On receipt of my instructions, dated 7th May, I proceeded to Toronto and thence by Canadian Pacific Railway connections to Winnipeg, where I stopped over to purchase supplies, thence going on to Calgary, arriving there on the morning of the 27th of May, where I received more detailed instructions from the Inspector of Surveys, and on the 1st day of June commenced re-tracing and re-mounding the 5th Initial Meridian from the 7th Base southward. While on this work I also made a traverse of part of Bow River, where it crosses Sections 6 and 7 in Township 22, Range 30, west 4th Initial Meridian.

No great difference in measurement was found until I reached the Porcupine Hills. While re-tracing the 5th Meridian in these hills, I was compelled, on 27th June, to abandon my carts, and to move my outfit on the horses' backs. Not having any pack saddles it was rather severe on the horses.

The meridian line crosses some of the highest peaks in the hills; however, it also intersects valleys well adapted for settlement. The growth of herbage was luxuriant, compared with that on the prairie, added to which the hills are well watered by numerous springs and spring creeks. Plenty of timber, both poplar and spruce, are met with, well adapted for domestic purposes.

On measuring the east boundary of Section 1, Township 11, I found the quarter section mound 8 chains and 37 links too far south, and the whole surplus on the last two quarter sections on the 3rd Correction Line 23 chains and 28 links. Communicating this fact to the Inspector of Surveys, he recommended re-measuring the 24 miles between the 3rd and 4th Bases, which was done, but no material difference was made in the surplus.

After completing re-tracing and re-mounding of the 5th Meridian I returned to Townships 12, Ranges 29 and 30, west 4th Initial Meridian, to examine and correct the subdivision of the same. Having measured the outlines of these townships, I connected the quarter posts on the outlines a-half mile south of the 4th Base by a straight line, thus determining the depth of quarter sections adjoining the 4th Base. I also ran the interior cords and made these lines govern the width of intervening sections. Scarcely any topography was taken while making the measurements for the necessary corrections in these two townships, being under the impression that it was not necessary.

After completing the correction of these townships I proceeded with my outfit *via* Fort McLeod to Township 8, Range 22, west 4th Initial Meridian, where I surveyed the north-west quarter of Section 13, this being a part of the "Blood" Indian Reserve. Some of the corners had been previously established by Mr. Nelson, Surveyor to the Indian Department. This quarter-section is traversed by the Belly River, and includes the old trading post formerly known as "Whoop-Up."

From here I proceeded to the west side of the "Piegan" Indian Reserve, on which I located and surveyed Sections 7 and 18 in Township 7, Range 28, west 4th Initial Meridian. The corners of the sections I found had also been previously established by D. L. S. Nelson, and iron bars planted. These two sections are somewhat cut up by the Old Man's River, the bed of which is here of considerable width, although the river itself, owing to the very dry season, was but of small dimensions.



On Section 7 one settler is located, whose crops, notwithstanding the drought, looked promising. On Section 18 fields of oats were seen in the valley on the north side of the river. Several other fields were also seen on the bench north of the river. The latter, I was informed, were under cultivation by some of the Piegan Indians.

After completing the survey of these two sections I proceeded to Township 6, Range 1, west 5th Initial Meridian, for the purpose of surveying a road from the Old Man's River south-westerly to the sawmill situated near the south-west corner of Section 18 in this township. In travelling to this point I passed through what appeared a fine country, well adapted for the growth of cereals and for stock-raising purposes. The land is generally rolling and undulating up to within a couple of miles from the mill, where the country becomes more hilly and the hills more abrupt. Rock is exposed in many places.

Mill Creek, which furnishes the power for running the mill, is a fine stream, and although not containing much water at the time I made the survey, has the appearance of carrying a large body of water at certain seasons. It is also well stocked with trout.

The road I surveyed is partly on the south-east quarter of Section 19 and partly on Section 18; that part of the road on the south half of Section 18 has been in use for some time, and has been graded in several places, whereas that part on the north half of Section 18 and on part of the south-east quarter of Section 19 is a deviation from the former travelled road. I was informed that good timber is within easy reach of the mill, and can be floated down without much difficulty.

From here I proceeded to the south half of Township 5, Range 30, west of 4th Initial Meridian. This part of the township consists mostly of rolling prairie, covered in many places with a dense growth of willow scrub and second growth poplar. There are also good hay meadows in the southern half of this township, and I would consider it well adapted for settlement.

After completing the subdivision of the south half of this township, I proceeded to the north-east corner of Township 4, Range 28. I experienced some difficulty in finding any posts or mounds, as owing to the large herds of cattle ranging here all the mounds were found to be obliterated and posts knocked down. The grass is of a luxuriant growth, which added to the difficulty of finding section corners. However, after half a day's search, we finally found the township corner, and then proceeded south, re-tracing the outline of Township 4. Not finding any material difference in re-chaining the first three sections, I renewed the old pits and planted iron posts at section corners. Section 13 was found to be 87 chains and 55 links in length. I made the necessary correction, and continued establishing corners according to corrected measurement. The land adjacent to this line is undulating, with a good black loamy subsoil, also well watered with numerous ponds, and on the east and west by Belly and Kootenai Rivers.

I made the necessary change in the line, tying in the Police Reserve at "Big Bend" of the Belly River, with the north-east corner of Section 13, Township 3, Range 28.

I completed retracing and marking the section and quarter section corners of Townships 2, 3 and 4 on September 7th, and shortly afterwards moved my camp to the Waterton River, or, as it is better known, the Kootenai River.

I arrived on the banks of this river on the 9th of September in a dense fog, so dense that an object a chain distant could only be dimly discerned, and, as we were travelling across country, I had to make constant reference to the compass. The following night a heavy snow storm set in, continuing all the next day, which was succeeded by a heavy frost and flurries of snow. However, all the snow had disappeared by the 14th, and we enjoyed about a month's fine weather after that. Heavy winds prevailed during our stay at this point, and I was informed by old settlers that they were peculiar to that locality.

Quite a rush of speculators took place on account of the recent discoveries of petroleum on a creek, since named Oil Creek, about two miles south of the South Kootenai Pass. I visited this creek, which is somewhat difficult of access, and saw several

small pools both on the north and south sides of the creek, each containing probably a gallon of oil and water mixed. I send a sample of the oil for your inspection. The ground for a short distance around these pools appears saturated with the oil, which is also seen oozing out from the banks of the creek in various places. It is situated quite close to an old Indian hunters' trail, and is said to have been known by the Indians, and the oil used by them as a medicine, for many years.

Quite a number of mining locations have been surveyed in the valley of this creek, and since the visit of an expert, who had been sent up by some eastern Oil Company to test the discovery, nearly 20,000 acres have been staked out and surveyed, comprising parts of Townships 1 and 2, Ranges 29 and 30, west of the 4th Initial Meridian.

I tied in the claims surveyed on Oil Creek with my subdivision survey by triangulation.

The formation contiguous to the oil springs consists of a gray and red sandstone, generally capped on the peaks by an overflow of limestone. There is a considerable dip to the strata, often almost vertical, from which a conclusion may be drawn that in boring for the oil at any distance from the Mountains, the wells may have to be sunk to a very great depth before striking the oil-bearing rock.

The Kootenai Lakes, as they are more commonly called, and as they are said to be named by the "Stony" Indians, comprise three fine sheets of water. The lower two are about one and a-half miles and two and a-half miles in extreme length, respectively; the upper one is said to be about fifteen miles in length, of which only about three and a-half miles are north of the International Boundary.

Salmon trout are very plentiful in the upper lake, and speckled or rather mountain trout in the Kootenai River, which is the outlet for these lakes. The growth of grass is very luxuriant in this the most extreme south westerly corner of the District of Alberta, although the flats in many places are very stony.

Two old settlers were met with in Townships 1 and 2, Range 29. One of them, Mr. John George Brown, in Township 2, was resident at the time of my survey; the other one, Mr. H. A. Kanouse, had retired to Fort McLeod.

A small seam of anthracite coal has been discovered in the southerly portion of Township 1, Range 29, on or near Canon Creek, the specimens of which looked very promising; but as so many more extensive seams have been recently discovered in close proximity to the Canadian Pacific Railway, it will probably be some time before this will be developed.

I completed my survey in this district on October 15, and moved out the same day to "Big Bend" on the Belly River. I forded the river here the following day and travelled across country to Township 2, Range 25, W. 4th I. M., passing through Cardstone, the centre of the Mormon settlement.

Whatever may be the tenets held by these people it must be acknowledged that they are industrious. It is two years since I passed through here before, and they, the first comers, were then under canvas. After the lapse of two years the progress they have made is very noticeable. Many good substantial houses have been erected, generally in fields or gardens well fenced; and what would strike a casual visitor perhaps most is the number of hay, grain and straw stacks surrounding almost every house.

In Township 2, Range 25, I retraced and repitted the east boundaries of Sections 31, 30, 19, 18, 7 and 6.

From here I proceeded to examine subdivision contract No. 13, comprising part of Township 3, Range 24; Township 4, Range 21; and Townships 3 and 4, Range 20, west of the 4th Initial Meridian, situated on the Milk River ridge.

Owing to the great scarcity of prairie grass during the past summer, a considerable quantity had been cut on this ridge, the greater part of which had been for the requirements of Lethbridge and vicinity.

I returned to Fort McLeod, by way of "Whoop Up," passing through a very dry and bare-looking country. Owing to scarcity of feed my horses strayed while camping near Fort McLeod, and I was therefore delayed several days.

In compliance with instructions received from the Inspector of Surveys, I returned in November to the Porcupine Hills, and chained outlines of Townships 9 and 10, in Ranges 29 and 30. I measured the three first deflection angles on the 3rd Base, east of the 5th Meridian. They were  $0^{\circ}106$ ,  $0^{\circ}11$  and  $0^{\circ}101$ . My measurements on the east limit of Townships 9 and 10, Range 29, varied at most 21 links from theoretical distance, and the depth of the last quarter section on the 3rd Correction Line differed in length 9 links from distance on sketch supplied me. Of the last quarter section in Range 30, the original measurement is given as 40 chains; according to my measurement Section 25, Township 10, is 87.46 chains, and Section 36 measured 82.74 chains, thus making a surplus in Sections 25 and 36 alone.

I enclose a list of my measurements.

I traced the 3rd Base across Range 28 without finding any errors. The several nights that I camped on the Base Line, the weather was not favorable for observing. I, however, succeeded in catching "Polaris" one morning soon after elongation, which led me to conclude that the azimuth of the 3rd Base at Section 2, Township 9, Range 29 was very nearly correct. I was more successful in observing on Range Lines 29 and 30, about six miles north of the 3rd Base, the azimuth of both these lines being within 0.005 of a true meridian.

Owing to the season being far advanced, and the weather in the hills continuing very threatening, with daily snow flurries, I became somewhat alarmed lest I should be snowed in with my carts and outfit. I therefore did not proceed any further in determining the exact point of deviation, but concluded that the error must be somewhere on the 3rd Base in either Range 29 or 30.

We left the hills on 22nd November, and returned to the vicinity of Fort McLeod, where, after laying in oats and other supplies, I started my party for Calgary on the 25th, travelling myself by stage. They arrived at Calgary on 30th November, and I paid them off the same day.

All of which is respectfully submitted.

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

C. F. MILES,  
*Dominion Land Surveyor.*

E. DEVILLE, Esq.,  
Surveyor General,  
Ottawa, Ont.

No. 22.

EXAMINATION PAPERS OF THE BOARD OF EXAMINERS FOR  
DOMINION LAND SURVEYORS.

EXAMINATION FOR ADMISSION AS ARTICLED PUPIL.

PENMANSHIP AND ORTHOGRAPHY.

Time, 3 Hours.

Write an Article on  
"Canada our Home."

Penmanship.  
Orthography.

No. of  
Marks.

50  
200

ARITHMETIC AND LOGARITHMS.

Time, 3 Hours.

1. Find the value of  $\cdot 25^8$  multiplied by  $17\cdot 68^3$ .
2. *A* starts driving from Winnipeg to Calgary, 900 miles, at the rate of 25 miles a day; *B* starts from Fort Ellice, 220 miles west of Winnipeg, two days after *A* also for Calgary, at the rate of 20 miles a day; while *C* starts from Calgary for Winnipeg five days after *A* starts and at the rate of 30 miles per day. At what distance from Winnipeg will *A* and *B*, *A* and *C*, and *B* and *C* be together?
3. The tabular logarithmic tangent is  $8\cdot 9274067$ ; what is the angle?
4. Extract the square root of  $\cdot 0372854$ .
5. Raise to the 5th power the cube root of  $178\cdot 324$ .
6. What is the numerical value of

No. of  
Marks.

15

20

12

8

15

15

$$\frac{(\cos 40^\circ 21' 30'') (\cos 32^\circ 13' 10'')}{\tan 52^\circ 18' 25''}$$

7. The assessed value of a town is \$3,482,650. The total taxes to be raised are \$53,460, of which the school tax exceeds the combined municipal and special tax by 25 per cent., the municipal exceeding the special tax by 25 per cent also. What is the rate of taxation for the special tax?

15

ALGEBRA.

Time, 3 Hours.

1. Find the H. C. F. of  $x^2+5x+6$ ,  $x^2+7x+10$  and  $x^2+12x+20$
2. Find the L. C. M. of  $x-1$ ,  $x^2+x+1$ , and  $x^3-1$ .
3. A man has three nephews. His age is 50 and the joint ages of the nephews are 42. How long will it be before the joint ages of the nephews will be equal to the age of the uncle?

No of  
Marks.

10

10

10

4. Solve for $x$	25
$10x + \cdot 91y + 1\cdot 20z = -7\cdot 93$ $\cdot 91x + 9\cdot 08y - 6\cdot 07z = +9\cdot 63$ $1\cdot 20x - 6\cdot 07y + 42\cdot 62z = -22\cdot 18.$	
5. The sum of two digits composing a number is 8, and if 36 be added to the number the digits will be inverted. Find the number.	15
6. The sum of the squares of two consecutive numbers is 481. Find the numbers.	15
7. For a journey of 108 miles 6 hours less would have sufficed had one gone 3 miles an hour faster. How many miles an hour did one go?	15

## GEOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. Triangles upon the same base and between the same parallels are equal to one another.	16
2. To make a triangle of which the sides shall be equal to three given straight lines, but any two whatever of these must be greater than the third.	16
3. If a straight line be divided into two equal and also into two unequal parts, the squares on the two unequal parts are together double of the square on half the line and of the square on the line between the points of section.	16
4. For squaring a number mentally we have the following rule $(a-x)(a+x)+x^2=a^2$ in which $a$ is the given number, and $x$ that number which added or subtracted from the given number makes a multiple of ten. Prove the rule geometrically.	20
5. If two straight lines cut one another within a circle, the rectangle contained by the segments of one of them is equal to the rectangle contained by the segments of the other.	16
6. In any triangle the squares on the two sides are together double of the squares on half the base and on the straight line joining its bisection with the opposite angle.	16
7. To trisect a given straight line.	20
8. To describe an isosceles triangle having each of the angles at the base double of the third angle.	20
9. The square inscribed in a circle is equal to half the square described about the same circle.	20
10. Inscribe a circle in a rhombus.	20
11. About a given circle to describe a triangle equiangular to a given triangle.	20

## PLANE TRIGONOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. Prove that the sum of the square of the sine of an angle and the square of the cosine of that angle is unity.	10
2. Give the algebraic signs of Sine, Cosine, Tangent, Cotangent, Secant, and Cosecant in the four quadrants.	10
3. Prove $\cos(x+y) = \cos x \cos y - \sin x \sin y$ .	15
4. Given $A = 50^\circ 38' 52''$ , $B = 60^\circ 07' 25''$ , and $a = 412\cdot 67$ ; find $b$ and $c$ .	20
5. Given $a = 10$ , $b = 12$ , $c = 14$ , find the angle of $A$ .	20
6. Given $a = 6\cdot 24$ , $b = 2\cdot 35$ , and $C = 110^\circ 32'$ ; find $A$ , $B$ and $c$ .	25

## SPHERICAL TRIGONOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. Prove that in a spherical triangle the sines of the sides are proportional to the sines of the opposite angles.	10
2. Show that $\cos a = \cos b \cos c + \sin b \sin c \cos A$ .	15
3. In a right angled triangle the hypotenuse $c=110^\circ 46' 20''$ , $A=80^\circ 10' 30''$ ; solve the triangle.	25
4. Given $A = 120^\circ$ , $B = 130^\circ$ , $C = 80^\circ$ ; find $c$ .	25
5. Show that $\sin \frac{1}{2} A = \sqrt{\frac{\sin(s-b) \sin(s-c)}{\sin b \sin c}}$	25

## MENSURATION OF SUPERFICIES.

*Time, 3 Hours.*

	No. of Marks.
1. A circular race course, 30 ft. wide, is half a mile long measured on the line within the track 3 ft. from the inside of the course. How many acres will be required in the square field just sufficient to include the course?	20
2. In the quadrilateral $ABCD$ , $B$ is a right angle, $AB=4.62$ chains, $BC=5.84$ chains, $CD=7.41$ chains, and $DA=8.79$ chains. What is the area in acres, roods and perches.	20
3. The area of the annulus between two concentric circles is 10 sq. ft., and the diameters are to each other as 1 to $\pi$ . What is the length of the diameters, $\pi$ being the ratio of the circumference of any circle to its diameter?	20
4. How many six acre lots can be laid out in a square mile after deducting therefrom a boulevard 100 ft. wide running around the square, and of the remaining land ten per cent. to be appropriated for roads.	20
5. The area included between a circle and the inscribed hexagon is 61.74 sq. inches. What is the radius of the circle?	20

## FULL EXAMINATION FOR ADMISSION AS SURVEYOR.

## PLANE GEOMETRY AND MENSURATION.

*Time, 3 Hours.*

	No. of Marks.
1. What changes can be made in the shape and dimensions of a parallelogram without altering its area? Illustrate.	8
2. A straight line drawn at right angles to the extremity of a diameter falls without the circle.	10
3. A rope attached to the top of a vertical pole standing upon a plain just reaches the ground. Desiring to find the height of the pole, I took hold of the end of the rope, keeping it perfectly taut, and pulled it out $a$ feet from the foot of the pole, and found then the end of the rope to be $b$ feet from the ground. How high was the pole?	16
4. If two circles intersect, the common chord produced will bisect the common tangent.	12
5. The diagonal of a rectangular lot is 83.82 chains, and the sides are in the ratio of 5 to 16; what is the area of the lot?	16

- |  |    |
|--|----|
| 6. If in example 5 the diagonal be divided in the ratio of the sides, and a line drawn from one of the opposite angles through the point of section to the opposite side, what is the area of the triangle so cut off? | 22 |
| 7. The sides of a triangular field are 12·68 chains, 15·42 chains, and 9·90 chains respectively. What is the area?   | 16 |

## SOLID GEOMETRY.

*Time, 3 Hours.*

- |  | No. of Marks. |
|--|---------------|
| 1. If a solid angle be contained by three plane angles any two of these angles are greater than the third.   | 15            |
| 2. The plane angles which contain any solid angle are together less than four right angles.  | 15            |
| 3. What must be the radius of a sphere of iron so that the weight of the sphere equals that of a cube of ice, side 2 feet. Specific gravity of ice being ·92, that of iron 7·20, and a cubic foot of water weighing 62½ lbs.               | 30            |
| 4. The surface of a sphere has 100 sq. inches. What are the dimensions of a right cone of equal volume with the sphere if the height of cone equals twice diameter of base?  | 30            |
| 5. In a cylindrical tub 2 ft. in diameter there are 9 inches of water. A cylinder of iron 1 ft. long and 1 ft. in diameter is laid in the tub. What is the height of the water then?   | 30            |
| 6. What is the weight of a township bar 5 ft. long, cylindrical, 1½ inches in diameter, hollow, iron ⅜ inch thick, squared at one end, the other end being pointed conically 4 inches; a cubic inch of iron weighing a quarter of a pound. | 30            |

## SPHERICAL TRIGONOMETRY.

*Time, 3 Hours.*

- |   | No. of Marks. |
|---|---------------|
| 1. Deduce $\frac{\cos \frac{1}{2}(A+B)}{\cos \frac{1}{2}(A-B)} = \frac{\tan \frac{1}{2}C}{\tan \frac{1}{2}(a+b)}$ | 22            |
| 2. Give Napier's rules for the solution of right-angled spherical triangles.                                      | 10            |
| 3. When $C$ is the right angle, $c = 140^\circ$ and $a = 20^\circ$ , solve the triangle.                          | 20            |
| 4. $C = 36^\circ 45' 28''$ , $a = 84^\circ 14' 29''$ , $b = 44^\circ 13' 45''$ ; find the remaining parts.        | 25            |
| 5. Find the angles of an equilateral spherical triangle, each of whose sides is $60^\circ$ .                      | 21            |
| 6. Given $A = 132^\circ 16'$ , $B = 139^\circ 44'$ , $b = 127^\circ 30'$ ; find $a$ .                             | 22            |
| 7. Given $A$ , $B$ and $C$ ; discuss the remaining parts.   | 30            |

## DIVIDING AND LAYING OFF OF LAND.

*Time, 3 Hours.*

- |  | No. of Marks. |
|--|---------------|
| 1. A B C D is a quadrilateral, right angle at B; A B = 7·84 chains, B C = 8·26 chains, C D = 10·18 chains, and D A = 12·72 chains. It is required to divide it into two equal parts by a straight line drawn from C to A D. Where is the point of section on A D?                  | 20            |
| 2. In a triangular field A B C, A B = 10 chains, B C = 8 chains, and C A = 6 chains. It is required to divide the area into three parts by two straight lines drawn from A on to B C, the three parts to have the ratio of the sides. Required the length of the two lines from A. | 10            |

3. In section 3 Tp. 9 R. 5 W. of 2nd I. M., there is a large spring on the southern boundary of the section, and 20 chains from the S.E. corner. A man wishes to divide the section equally among his four sons by straight lines radiating from the spring. What are the lengths of the dividing lines ?	20
4. In a quadrilateral A B C D, A D is parallel to B C and at right angles to A B. A B = 4.62 chains, B C = 7.46 chains, and A D = 5.30 chains. It is required to divide the parcel into two equal parts having equal frontage on A B by a straight line. What is the length of the dividing line ?	20
5. Through the south-east part of Sec. 3 Tp. 9 R. 5 W., runs a 4° railroad curve, convex towards the S.W. angle of the section, and intersecting the southern boundary 9 chains and the western boundary 12 chains from the S. W. angle of the section. It is required to divide the triangular part cut off into halves by a straight line parallel to the western boundary. What is the length of the dividing line, and where will it intersect the southern boundary ?	30

MEASUREMENT OF AREAS.

<i>Time, 3 Hours.</i>				No. of Marks.
1.	Station.	Bearings.	Distances.	45
	1	S. 69° 15' E.	7.06 chains.	
	2	N. 37° 15' E.	5.93 "	
	3	N. 39° 30' W.	6.00 "	
	4	S. 57° 45' W.	4.65 "	
	5	S. 30° 00' W.	4.98 "	
Find the area by latitudes and departures, first "balancing" the survey.				
2. In the above example, if the chain was half a link too long, what would be the true area ?				10
3. Express the conditions necessary for a closed survey by two equations. (a.) And from them show what missing data in a survey can be supplied. (b.) How does the supplying of missing data in a survey affect "balancing" the survey ?				30
4. In what cases of missing data in a survey may ambiguity result in the determination of the missing data ? Show how.				15

DESCRIPTIONS.

<i>Time, 3 Hours.</i>		No. of Marks.
1. A man sells that part of the south-east quarter Sec. 3 Tp. 9 R. 5, lying south of the C. P. Railway. The centre line of the railway enters the section on a tangent 10.14 chains from the south-east angle of the section, and leaves the ¼ Sec. at a point distant 16.80 chains from the south-west angle of ¼ Sec. The right of way extends 50 links on each side of centre line. Make a description for conveyance of part sold.		25
2. The registered plan of the town of Derby shows town lot number 2 in block A to be a rectangle 75 links by 2.00 chains and bearings N. 77° 42' E. and N. 12° 18' W. respectively. The owner sells 33 feet frontage from the south-west corner of the lot, the division line to be parallel to the westerly limit of the lot. Make a description for conveyance of part sold.		25



- |   |    |
|---|----|
| 3. Let in question 1 the centre line continue from the western boundary of the $\frac{1}{4}$ Sec. on a $1^\circ$ curve, deflection northward, to the western boundary of the section. Make a description for the right of way through said section.   | 25 |
| 4. A reserve is to be granted. It is to adjoin the 5th I. M. to the west; its southern boundary to extend along the 15th Base Line for 25 miles, and its eastern boundary along the Initial Meridian 40 miles north; the western boundary to be a meridian, and the northern one to conform with the system of Dominion Lands Survey. Make a description of the reserve, giving the townships included in part or in whole. | 25 |

## PRACTICAL ASTRONOMY.

*Time, 3 Hours.*

- |   | No. of<br>Marks. |
|---|------------------|
| 1. Explain fully the difference between apparent, mean and sidereal time.   | 12               |
| 2. Give one or more methods for determining the value of a division of the striding level. What are the characteristics of a good level?  | 13               |
| 3. In taking a single meridian altitude of the sun, what error or errors is the observation subject to, and what corrections must be applied to the observation for obtaining the latitude of the place?          | 15               |
| 4. What is meant by the "equation of time?" Explain why its value is greatest in November.  | 15               |
| 5. In latitude $53^\circ 43'$ , longitude $110^\circ$ W., the Government telegraph line runs N. $80^\circ$ W. At what time of the day on August 19th, 1880, will the shadow of a telegraph pole fall on the wire? | 25               |
| 6. The observed altitude of Polaris at lower transit was $52^\circ 16' 20''$ on May 30th, 1880, in approximate longitude $114^\circ$ W. What is the latitude of the place?  | 20               |

## PRACTICAL ASTRONOMY.

*Time, 3 Hours.*

- |  | No. of<br>Marks. |
|--|------------------|
| 7. On March 31st, 1880, at $53^\circ 43'$ N. latitude and $110^\circ$ W. longitude, a sidereal chronometer is fast 0h. 47m. 42s. (no rate), and at 4 o'clock mean local time in the afternoon of that day it is slow on a watch 1h. 39m. 37s. For what meridian does the watch show the correct mean time? | 20               |
| 8. At the same place and date as in the last question, in the forenoon the observed altitude of the sun was $25^\circ 26'$ , a watch shewing 9 o'clock. What is the error of the watch?  | 20               |
| 9. In question 8 what is the azimuth of the sun an hour after the observation?   | 20               |
| 10. What is the azimuth of the sun at sunset at the place and date of question 7?  | 20               |
| 11. At Kamloops latitude $51^\circ 40' 39''$ longitude $120^\circ 19' 35''$ , when is sidereal time exactly 6 hours ahead of mean time in the year 1880?   | 20               |

## MANUAL OF SURVEY AND DOMINION LANDS ACT.

*Time, 3 Hours.*

	No. of Marks.
1. Describe the (a) first system of survey. (b) second system of survey. (c) actual system of survey.	25
2. What area and townships are covered by (a) the first system. (b) the second system.	25
3. Describe the different kinds and sizes of posts and mounds, how and where they are placed.	16
4. How would you mark the following posts: (a) at the N.E. corner of Sec. 17 Tp. 48 R. 3, West of the P.M. (b) at the easterly corner between Tps. 9 and 10 R. 5, East of the P.M. (c) at the southern corner between Secs. 5 and 6 Tp. 19 R. 8, W. of 4th I. M. (on a correction line). (d) at the N.E. corner of Sec. 9 Tp. 19 A. R. 7, W. of 2nd I. M. (on the south side of the road allowance dividing two systems of survey). (e) at the N.E. corner of Sec. 36 Tp. 42 R. 13, West of the 3rd I. M. (on a correction line).	17
5. Describe fully the process of subdividing a township. What notes are to be taken, what traverses made, and the limit of closing error?	17

## MANUAL OF SURVEY AND DOMINION LANDS ACT.

*Time, 3 Hours.*

	No. of Marks.
6. How would you re-establish the posts—question 4—(a) (b) (c) and (d)?	25
7. How are legal subdivisions to be surveyed? How are they numbered? How are they surveyed in fractional sections?	20
8. What instruments are to be used in subdivision surveys? How and with what is the linear measurement determined on a survey? What precautions are to be used in making the measurements? How are obstacles to be passed, such as swamps or rivers or inaccessible hills?	20
9. Describe fully what the field book and plan of subdivision of a township for final return should contain? What conventional colors are used for topography?	20
10. How would you summon a person to give evidence before you regarding the position of a corner or boundary? How would you proceed if he failed to appear before you at the time specified?	15

## PLANE GEOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. All the angles of a rectilinear figure, together with four right angles, are equal to twice as many right angles as the figure has sides.	13
2. Each angle of a regular polygon is $156^\circ$ . What is the number of its sides?	12

3. If a straight line be divided into two equal, and also into two unequal parts, the squares on the two unequal parts are together double of the square of half the line and the square of the line between the points of section.	13
4. Through three given points only one circle can be drawn.	12
5. On the same straight line, and on the same side of it, there cannot be two similar segments of circles, not coinciding with one another.	13
6. How many equal circles can be placed within a circle having a diameter three times as great as theirs, in such manner that no two of the circles shall cut one another? If each of the smaller circles be 1 sq. ft. in area, what is the area of the part of the large circle not occupied by the smaller ones?	12
7. Divide a given straight line into parts which shall have the same ratio to one another that the parts of a given divided straight line have to one another.	13
8. O is a fixed point from which any straight line is drawn meeting a fixed straight line at P; in O P a point Q is taken such that the rectangle OP, OQ is constant; show that the locus of Q is the circumference of a circle.	12

## SOLID GEOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. If three straight lines meet all at one point, and a straight line stand at right angles to each of them at that point, the three straight lines shall be in one and the same plane.	25
2. Planes to which the same straight line is perpendicular are parallel to one another.	25
3. If two points be taken on the surface of a sphere, the great circle joining them is shorter than any small circle of the sphere connecting the same two points.	25
4. Find the surface and the volume of a right cylinder, the diameter of the base being 10 inches and height 2 feet; also the surface and height of a right cone having the same base and volume.	25
5. What is the content in imperial gallons of a frustrum of a square pyramid, the sides of its ends being 52 and 28, and its depth 36 inches, an imperial gallon containing 277.274 cubic inches?	25
6. A conical glass whose depth is 6 inches, and the diameter of its mouth 5 inches, is filled with water. A sphere of iron 4 inches in diameter is placed in it. How much water will run over?	25

## SPHERICAL TRIGONOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. Deduce the fundamental formula.	25
$\cos a = \cos b \cos c + \sin b \sin c \cos A.$	
2. Find the relations connecting the angles and sides of the polar triangle with those of the primitive triangle, and show how these relations may be used in transforming spherical formulæ.	25

3. In a right angled spherical triangle,  $A=140^{\circ}$ ,  $a=150$ ; solve the triangle.

25
4. In a spherical triangle,  
 $a=27^{\circ} 10'$ ,  $b=35^{\circ} 16'$ ,  $c=12^{\circ} 18'$ ; solve the triangle.

25
5. Two ports are in the same latitude  $54^{\circ}$ , and their difference of longitude is  $51^{\circ}$ . Find the saving in distance in sailing from one to the other along a great circle, instead of sailing due east or west along the circle of latitude.

25
6. Show in what cases the solution of a spherical triangle is ambiguous.

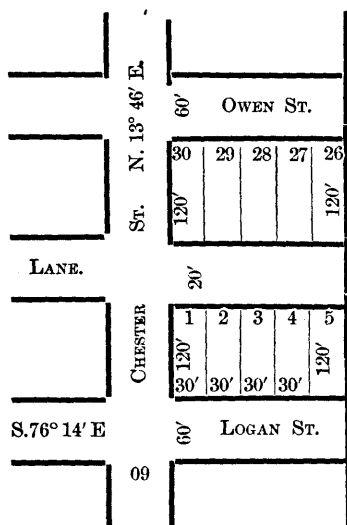
25

DIVISION OF LAND.

<i>Time, 3 Hours.</i>	No. of Marks.
1. Required to lay off $7\frac{1}{2}$ acres in the form of a triangle, one of whose sides is 25 chains, and the lengths of the other two are in the ratio of 2 to 3. Find the lengths of these sides.	18
2. Divide a triangular field by a straight line into two parts of equal area, in such manner that they may require the same amount of fencing, the sides of the triangle being 10, 15 and 17 chains.	20
3. Two sides of a field meet at a point A at an angle of $75^{\circ}$ . It is required to part off from the field a triangle, with vertex at A, of area $2\frac{1}{2}$ acres, by the shortest possible line. Find the length of this shortest line and the points where it cuts the sides.	19
4. A rectangular lot has 25 chains frontage, and is 60 chains deep. The land on the front is valued at \$300 an acre and that at the rear \$150. The value is assumed to decrease uniformly from front to rear. It is required to divide the land into three parts of equal value by means of straight lines meeting at a spring which is at the intersection of the diagonals of the rectangle.	25
5. Show how to divide a quadrilateral into parts having given areas by straight lines parallel to one side.	18

DESCRIPTIONS.

<i>Time, 3 Hours.</i>	No. of Marks.
1. Mr. A. owns the south-east quarter of Section 3, Township 6, Range 7, west of 2nd Initial Meridian. He sells the eastern half thereof to Mr. B. Make a description of the part sold.	20
2. The centre line of the Mackenzie Basin Railway enters the eastern side of Section 18, Township 32, Range 1 west of the 5th Initial Meridian on a tangent running N. $65^{\circ}$ W., and at a distance of 14.82 chs. from the southeastern angle of said section. The lands appropriated for the railway extend 33 ft. on each side of the centre line. Make a description of the right of way through said section.	20



3. Mr. A. owns lots numbers one, two and three. On lots numbers one and two he has erected a rectangular brick block, which is supposed to have a frontage of fifty feet on Logan street and adjoins Chester street the full depth of the lot. Mr. A. sells the brick block to Mr. B. Make the necessary description for a conveyance.

20

4. Using the above diagram:—Mr. B. buys from Mr. A. twenty feet frontage of Lot No. 1, the frontage extending from Chester St. along Logan St., and the parcel bought to have a uniform width to the rear thereof. Make a description for a deed of the parcel bought.

20

5. A ranching company leases from the Government 100,000 acres. The land is to comprise Townships 16 and to extend westward from the 5th Initial Meridian; the western limit of said land to be a meridian. Make the description of the land for the lease.

20

#### MEASUREMENT OF AREAS.

*Time, 3 Hours.*

No. of  
Marks

1. Supply the omissions and calculate the area of a tract of land from the following field notes:—

50

Station.	Course.	Distance.
1	N 55° W	25·50 chs.
2	N 23½° W	33·50 "
3	N 62½° W	18·30 "
4		61·00 "
5	S 47½° E	44·00 "
6	S 83½° E	53·00 "
7	S 26½° E	
8	N 28½° W	50·00 "

2. Explain how to "balance" a survey when the notes are complete.

20

3. Show how to supply omissions in field notes such as the above, distinguishing all the different cases.

30

## PRACTICAL ASTRONOMY.

*Time, 3 Hours.*

	No. of Marks.
1. Explain fully the terms: right ascension, declination, celestial latitude and longitude, terrestrial latitude and longitude. From what points and in what directions are they measured?	12
2. Define—hour angle, sidereal time, apparent and mean solar time, and explain how one is converted into another.	14
3. The sidereal time at the meridian of Greenwich on May 21st, 1880, of a certain occurrence being 7h. 23m. 51.3s., find the corresponding mean solar time. Also find the sidereal and mean solar times at the same instant in longitude 103° West.	18
4. Describe the observation of a star at its greatest elongation for azimuth. How would the result be affected by imperfect levelling of the instrument, and by error of collimation?	18
5. In latitude 53° 32' what is the zenith distance of a star, declination 53° 10', when crossing the prime vertical, and what is its hour angle?	20
6. On June 10th, 1880, in longitude 105° 13' W., the observed altitude of Polaris at upper transit was 53° 28' 17". Find the latitude of the place of observation.	18

## PRACTICAL ASTRONOMY.

*Time, 3 Hours.*

	No. of Marks.
7. On the 17th May, 1880, in longitude 110° 15' W., the observed meridian altitude of the sun's upper limb was 68° 25' 34". What was the latitude?	25
8. On the 9th August, 1880, in longitude 105° W., the observed altitude of the sun's upper limb was found to be 20° 14'; latitude 48° 30'; approximate time of observation, 7 <sup>h</sup> a.m. Find the mean time of observation.	25
9. On July 20th, 1880, in latitude 50° N., and longitude 102° W., at 10 <sup>h</sup> 20 <sup>m</sup> sidereal time, the magnetic azimuth of the sun was S. 60° W. What was the magnetic declination?	25
10. Find from the Almanac the right ascension and declination of the moon at 15 <sup>h</sup> 30 <sup>m</sup> 15 <sup>s</sup> , Greenwich mean time, on 17th Sept., 1880.	25

## PLANE GEOMETRY.

*Time, 3 Hours.*

	No. of Marks.
1. Describe a circle about a given triangle.	11
2. In any triangle if squares be described on the three sides and the external adjacent angles joined then the three triangles thus formed and lying between the three squares are each equal to the original triangle.	11
3. Similar triangles are to one another in the duplicate ratio of the homologous sides.	11
4. Prove the proposition corresponding to the algebraic statement $(a + b)^2 + (a - b)^2 = 2a^2 + 2b^2$ .	11

[PART II]

5. $ABC$ is a triangle inscribed in a circle and $AD$ , $AE$ are drawn parallel to tangents at $B$ and $C$ to meet the base at $D$ and $E$ . Show that the ratio of $BD$ to $CE$ is the duplicate of the ratio of $AB$ and $AC$ .	15
6. The surface of a circle and hexagon is in each 15 sq. feet. What is the difference between the circumference and perimeter?	11
7. To find a mean proportional between two straight lines. (a) If of three straight lines in continued proportion the mean and the difference of the extremes are given, find the lines.	15
8. Two circles of 10 and 15 feet diameter respectively, intersect one another. Their common chord is 8 feet. What is the area of the surface common to both?	15

## SOLID GEOMETRY.

Time, 3 Hours.

	No. of Marks.
1. If a solid angle be contained by three plane angles, any two of these angles are greater than the third.	16
2. The plane angles which contain any solid angle are together less than four right angles.	16
3. Any three straight lines which meet one another, not in the same point, are in one plane.	16
4. A tank in the form of a frustum of a right cone is 10 ft. in diameter at the top and 12 ft. at the bottom and 18 ft. high. How many gallons of water will it contain? 1 gallon = 277.274 cub. inches.	26
5. In a hemi-spherical vessel 12 inches in diameter stands a right cone, base 8 inches, height 10 inches. How many gallons of water will it take to fill the vessel?	25
6. What is the difference in yards required for a bell (conical) tent 10 ft. high and covering the same number of square feet as an A tent 8 ft. by 10 ft. and the latter tent, it being 6 ft. high and having a 2 foot wall, and square ends?	25
7. The length and diameter of a cylinder are equal; the volume is equal to that of a sphere of radius $a$ ; what is the volume of the sphere circumscribing the cylinder?	26

## SPHERICAL TRIGONOMETRY.

Time, 3 Hours.

	No. of Marks.
1. In any spherical triangle establish the following:— $\cos a = \cos b \cos c + \sin b \sin c \cos A$ $\cos B - \cos A = \frac{\sin(a-b)}{\sin c} (1 + \cos C).$	25
2. Deduce $\cos \frac{1}{2}(A+B) = \frac{\tan \frac{1}{2}c}{\tan \frac{1}{2}(a+b)}.$	25
3. Show that $\sin^2 \frac{1}{2}A = \frac{\sin(s-b) \sin(s-c)}{\sin b \sin c}.$	25
4. In a spherical right triangle $A = 100^\circ$ and $a = 112^\circ$ ; solve the triangle fully.	25
5. In a spherical triangle $A = 95^\circ 38' 4''$ , $C = 97^\circ 26' 29''$ , $b = 64^\circ 23' 15''$ ; find $B$ .	25
6. Given $A = 120^\circ$ , $B = 130^\circ$ , $C = 80^\circ$ ; find $c$ .	25

DIVIDING AND LAYING OFF OF LAND.

Time, 3 Hours.

No. of  
Marks.

- |   |    |
|---|----|
| 1. In a triangular piece of land ABC, the side $a = 10c \cdot 78$ , $b = 8c \cdot 42$ and $c = 12c \cdot 06$ , the course of AB being due north; it is required to divide the triangle into two equal parts by a straight line starting on the side c at a distance of $5c \cdot 00$ from A. What is the azimuth and length of the dividing line?   | 25 |
| 2. The centre line of the C. P. R. enters on a course N. $70^\circ$ W., the southern limit of Sec. 3, T. 13, R. V., at a point $16c \cdot 40$ from the south-west angle of said section. It is required to divide that part of the section lying north of the railway into two equal parts by a line parallel to the above tangent. What is the length of the dividing line, the right of way extending 50 links on each side of the centre line? | 25 |
| 3. If in the last question that part of the section south of the railway be divided into one acre lots by lines parallel to the west section line, what will be the frontage of such lots?  | 25 |
| 4. Divide the area contained within a circular race course one mile in circumference into three equal parts by parallel lines. Give the length of the dividing lines.   | 25 |

MEASUREMENT OF AREAS.

Time, 3 Hours.

No. of  
Marks.

- |    |  |                      |               |    |
|----|--|----------------------|---------------|----|
| 1. | Stations.  | Bearings.            | Distances.    | 30 |
|    | 1  | S. $69^\circ 15'$ E. | $7c \cdot 06$ |    |
|    | 2  | N. $37^\circ 15'$ E. | $5 \cdot 93$  |    |
|    | 3  | N. $39^\circ 30'$ W. | $6 \cdot 00$  |    |
|    | 4  | S. $57^\circ 45'$ W. | $4 \cdot 65$  |    |
|    | 5  | S. $30^\circ 00'$ W. | $4 \cdot 98$  |    |
|    | Compute area, after balancing survey.  |                      |               |    |
| 2. | Show by equations how to solve for:  |                      |               | 30 |
|    | (1) Where the bearing and length of one course are unknown.  |                      |               |    |
|    | (2) Where the bearing of one course and length of another are unknown.   |                      |               |    |
|    | (3) Where two bearings are unknown.  |                      |               |    |
|    | (4) Where two lengths are unknown.   |                      |               |    |
| 3. | If in a survey the angles are read by a transit-theodolite and in closing check, how would you balance the survey before computing the area by latitude and departure?   |                      |               | 15 |
| 4. | If we assume the temperature correction to be half a link per mile for every $10^\circ F$ , and the chain standard at $60^\circ F$ ; and a parcel of land of 100 acres to be laid out in August with the chain at $100^\circ F$ , without allowing for expansion, what is the error in area of the parcel? |                      |               | 10 |
| 5. | A triangular piece of land measures on its sides $10c \cdot 14$ , $7c \cdot 62$ and $9c \cdot 58$ respectively. What is the area?  |                      |               | 15 |



DESCRIPTIONS.	
<i>Time, 3 Hours.</i>	No. of Marks.
1. The Saskatchewan Driving Park Association buys from Mr. A the south-west corner of Sec. 3, Tp. 13, R.V., for a one-mile circular race course. The land bought to be in the form of a square, with its sides one chain from the nearest point of the one-mile line. Make the necessary description for a deed.	20
2. Mr. A sells to Mr. B the northern half of the above section. Make the necessary description for a deed.	20
3. In the town of Hope and District of Assiniboia, the lots are laid out 50 feet by 150 feet, the side streets running north and south, the others east and west. Mr. A sells to Mr. B twenty feet frontage off lot 4 extending from the south-west corner of the lot. The parcel bought to have a uniform width to the rear. Make the necessary description for a deed.	20
4. In giving distance in descriptions when are the words "more or less" properly applied?	20
5. Draw up the affidavit of a witness regarding the position of a town lot corner, the post of the original survey having disappeared.	20

PRACTICAL ASTRONOMY.	
<i>Time, 3 Hours.</i>	No. of Marks.
1. Define solar, mean and sidereal time. Show how to obtain a ready approximation of the difference between a mean and sidereal day.	16
2. Define parallax, right ascension and declination. In the Nautical Almanac are given the mean and apparent declinations of stars; explain each.	16
3. Explain the cause of the variation in the equation of time, and why the equation of time is greatest in November. A graphical solution may be given.	16
4. On August 19th, 1880, in latitude $53^{\circ} 43'$ , longitude $110^{\circ} W.$ , an observation for azimuth was taken on Polaris at the computed time of eastern elongation. Afterwards it was found that the watch giving the time was slow 25 minutes. What was the resulting error in azimuth?	20
5. On May 20th, 1880, in approximate longitude $115^{\circ} W.$ , the observed meridian altitude of the sun's lower limb was $57^{\circ} 10' 30''$ . What is the latitude of the place?	16
6. In question 4 how does the line of collimation affect the observation, and how does the level of the axis?	16
7. On Sept. 25th, 1880, in latitude $51^{\circ} 40'$ , longitude $112^{\circ} 36'$ , the observed altitude of the sun was $34^{\circ} 15'$ when a watch showed 9h. 42m. 36s. What was the azimuth of the sun, and watch correction?	30
8. In question 7, what was the sidereal time of observation and for what meridian did the watch show the correct mean time?	10
9. At what time does the sun set on June 21st, 1880, in latitude $52^{\circ} 38'$ , longitude $103^{\circ} 30'$ ?	20
10. In latitude $54^{\circ} 42' 9''$ the observed meridian altitude of the sun was $32^{\circ} 08' 20''$ . What day of the year (1880) was it and what was the longitude of the place, approximately.	20
11. On May 10th, 1880, at what time A.M. will the shadow of a vertical picket be due east and west, in latitude $50^{\circ} 00'$ longitude $96^{\circ} 30' W.$ ?	20

## EXAMINATION FOR DOMINION TOPOGRAPHICAL SURVEYORS.

## ALGEBRA.

*Maximum No. of Marks 50.**Time, 3 Hours.*

1. Solve the equations:

$$\begin{aligned}
 a. \quad & \begin{cases} \sqrt{\frac{x}{y}} + \sqrt{\frac{y}{x}} = \frac{5}{2} \\ \sqrt{\frac{x^2}{y} + \frac{y^2}{x}} = \frac{9\sqrt{2}}{2} \\ x + y + z = 3a \end{cases} \\
 b. \quad & \begin{cases} yz + zx + xy = 3a^2 \\ xyz = a^3 \end{cases}
 \end{aligned}$$

2. Two vessels are sailing on courses at right angles to one another towards the intersection of the courses. Their distances from this intersection being at one time 4 miles and 3 miles, and their respective velocities 6 miles and 8 miles per hour. When are they nearest to each other, and what is the shortest distance between them?

3. If
- $p$
- be greater than unity, then for all the real values of
- $x$
- the expression
- $\frac{x^2 - 2x + p^2}{x^2 + 2x + p^2}$
- lies between
- $\frac{p-1}{p+1}$
- and
- $\frac{p+1}{p-1}$

4. If
- $m$
- $a$
- is greater, equal to, or less than
- $n$
- $c$
- , according as
- $m$
- $b$
- is greater, equal to, or less than
- $n$
- $d$
- , whatever values are given to
- $m$
- and
- $n$
- , then
- $\frac{a}{b} = \frac{c}{d}$

5. Find the sum of the cubes of the first
- $n$
- natural numbers.

6. Write down the first five terms of the expansion of
- $(5-4x)^{-1}$

7. Prove that
- $\left(1 + \frac{1}{n}\right)^n x = e^x$
- in the limit when
- $n$
- is made very large.

8. Show that.

$$\log_a y = \frac{y-1-\frac{1}{2}(y-1)^2 + \frac{1}{3}(y-1)^3 - \&c.}{a-1-\frac{1}{2}(a-1)^2 + \frac{1}{3}(a-1)^3 - \&c.}$$

9. If
- $y = x - \frac{x^2}{2} + \frac{n^4}{4} - \&c.$
- , find
- $x$
- in a series of ascending powers of
- $y$
- .

10. A point taken at random within a circle is joined with two fixed points on the circumference. What is the chance that the centre of the circle is within the triangle thus formed?

11. Three balls marked, 1, 2, 3 are placed in a bag. Five successive drawings are made, the ball being each time replaced. What is the chance that the sum of the numbers thus drawn is even?

No. of  
Marks.

5

5

5

5

5

5

5

7

6

10

7

10

## PLANE TRIGONOMETRY.

*Maximum No. of Marks, 50.**Time, 3 Hours.*

- |  |   |
|--|---|
| 1. Assuming the formula for sine and cosine of $A + B$ and $A - B$ in terms of sines and cosines of $A$ and $B$ to hold true for angles less than $90^\circ$ , prove that they hold universally. | 5 |
| 2. Prove   |   |
| $\sin(a-b) + \sin(b-c) + \sin(c-a) + 4 \sin \frac{a-b}{2} \sin \frac{b-c}{2} \sin \frac{c-a}{2} = 0$   | 4 |
| $\tan^{-1} \frac{1}{3} + \tan^{-1} \frac{1}{5} + \tan^{-1} \frac{1}{7} + \tan^{-1} \frac{1}{8} = \frac{\pi}{4}$  | 4 |
| 3. Find $x$ from the equations   |   |
| $\sec a \sec x + \tan a \tan x = \sec \beta$   | 4 |
| $4 \sin x \sin(x-a) = 2 \cos a - 1$  | 4 |
| $\tan x \tan 2x + \cot x = 2$  | 4 |
| $\cos nx + \cos(n-2)x = \cos x$  | 4 |
| giving the general values of $x$ .   |   |
| 4. Prove the formula   | 8 |
| $\sin a = a - \frac{a^3}{\sqrt{3}} + \frac{a^5}{\sqrt{5}} - \frac{a^7}{\sqrt{7}} + \dots$  |   |
| 5. Expand $\tan^{-1} x$ in terms of $x$ .  | 8 |
| 6. Show how the formula  | 6 |
| $\sin \theta = \theta \left(1 - \frac{\theta^2}{\pi^2}\right) \left(1 - \frac{\theta^2}{2^2 \pi^2}\right) \left(1 - \frac{\theta^2}{3^2 \pi^2}\right) \dots$                                     |   |
| and the corresponding formula for $\cos \theta$ may be used for the calculation of tables of logarithms of trigonometrical functions.  |   |
| 7. Given $\sin x = n \sin(x+a)$ , expand $x$ in powers of $n$ .  | 8 |
| 8. If in a triangle the angle $C$ differs from $180^\circ$ by a small angle $\theta$ , shew that   | 8 |
| $c = a + b - \frac{ab\theta^2}{2(a+b)} \sin^2 1''$ very nearly, $\theta$ being given in seconds.   |   |
| 9. Find the sum of the series  | 8 |
| $\sin a + \sin(a+\beta) + \sin(a+2\beta) + \dots$ to $n$ terms.  |   |

## SPHERICAL TRIGONOMETRY.

*Maximum No. of Marks, 50.**Time, 3 Hours.*

- |   |   |
|---|---|
| 1. Prove the formula  | 9 |
| $\cos a = \cos b \cos c + \sin b \sin c \cos A$   |   |
| and deduce from it the corresponding formula of plane trigonometry.   |   |
| 2. Prove  | 9 |
| $\frac{\cos \frac{1}{2}(A+B)}{\cos \frac{1}{2}(a+b)} = \frac{\sin \frac{1}{2}C}{\cos \frac{1}{2}c}$                                   |   |
| 3. In what cases of the solution of spherical triangles is there ambiguity?   | 9 |
| 4. Prove that the area of a spherical triangle is equal to the square of the radius of the sphere multiplied by the spherical excess. | 9 |
| 5. In a spherical triangle whose sides are quadrants, a point within it is distant $\alpha, \beta, \gamma$ , from the angles.         | 9 |
| Prove that $\cos^2 \alpha + \cos^2 \beta + \cos^2 \gamma = 1$ .   |   |

- |   |   |
|---|---|
| 6. The locus of the vertices of all right-angled spherical triangles upon the same hypotenuse ( $c$ ) is expressed by the equation :<br>$\cot^2 \frac{1}{2} c = \cot^2 p + \sin^2 P$ , where $p$ is the distance of the right angle from the middle point of the hypotenuse, and $P$ the angle this distance makes with the hypotenuse. | 9 |
| 7. Prove that the locus in the last question becomes a circle when the radius of the sphere is made infinitely great compared with the sides of the triangle.   | 9 |
| 8. Find what the following formulae become when the radius of the sphere is made infinitely great compared with the sides of the triangle :   | 6 |

$$\cos a \sin b = \sin a \cos b \cos C + \sin c \cos A$$

$$\tan \frac{1}{2} A = \sqrt{\frac{\sin(s-b) \sin(s-c)}{\sin s \sin(s-a)}}$$

## ANALYTICAL GEOMETRY.

Maximum No. of Marks, 80.

Time, 3 Hours.

- |  | No. of Marks.         |
|--|-----------------------|
| 1. Prove that the general equation of the first degree represents a straight line.   | 8                     |
| 2. What loci are represented by the equations<br>$(Ax + By + C) + k(Dx + Ey + F) = 0$ .<br>$(Ax + By + C)(Dx + Ey + F) = 0$ .<br>$\frac{(Ax + By + C)^2 - (Dx + Ey + F)^2}{A^2 + B^2 - D^2 - E^2} = 0$ (axes rectangular).   | 4<br>4<br>4           |
| 3. Deduce the equation of the straight line in the form<br>$\frac{x-h}{c} = \frac{y-k}{s} = l$ (rectangular axes).   | 8                     |
| 4. If the position of any point in a plane be represented by $r$ and $r_1$ , its distances from two fixed points, find the equations to rectangular axes of the loci represented by the following—<br>$r + r_1 = c$<br>$r - r_1 = c$<br>$rr_1 = h^2$<br>$\frac{r}{r_1} = c$<br>$r^2 + r_1^2 = c^2$ | 4<br>4<br>4<br>4<br>4 |
| $2h$ being the distance between the fixed points and $c$ any constant, and the point midway between the two fixed points being origin, and the straight line joining them the axis of $x$ .  |                       |
| 5. Find the equation to a circle, centre at point $a, b$ , radius $r$ . Rectangular axes.  | 8                     |
| 6. Find the condition that the straight line $lx + my = 1$ is a tangent to $x^2 + y^2 = r^2$ .   | 8                     |
| 7. Show that any transformation of coördinates may be expressed by the substitution for $x$ and $y$ respectively of $Ax + By + C$ and $Dx + Ey + F$ , and prove thence that the degree of an equation is neither raised nor depressed by transformation of coördinates.                            | 8                     |
| 8. Find the equation of the chord of contact of the two tangents drawn from a point $x, y$ , to the circle $x^2 + y^2 = r^2$ .   | 8                     |
| 9. Prove that the polar of a point with reference to a circle passes through the pole of every straight line passing through that point.   | 8                     |

10. Find the equation of the locus of the point which divides the ordinates of the circle $x^2+y^2=r^2$ in the constant ratio $\frac{b}{a}$	8
11. Find the equation to the diameter of the ellipse $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ conjugate to the diameter. $\frac{x}{x_1}=\frac{y}{y_1}$	8
12. Find the locus of the intersection of tangents to the ellipse $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ , at right angles to one another.	8
13. Find the locus of the feet of the perpendiculars from the foci on any tangent to $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ .	8

ANALYTICAL GEOMETRY—(*Second Paper.*)

Maximum No. of Marks 50.

Time, 3 Hours.

	No. of Marks.
1. If the position of any point on a given ellipse be defined by the inclination ( $\phi$ ) of the normal at the point to the major axis, express the rectangular coördinates of the point in terms of $\phi$ .	15
2. Express in terms of $\phi$ the length of the normal included between the point and major and minor axes respectively.	12
3. Write down the formulæ expressing in terms of $\phi$ , the radius of curvature of the meridian of a spheroid and that of the normal section at right angles to the meridian, and express in terms of these two the radius of curvature of a section making any angle with the meridian.	12
4. Define the term "geodetic line" as applied to a surface, and show that the geodetic line joining two points is the shortest distance between any two intermediate points which lie on the line.	12
5. At what point of an ellipse whose axes are 12 and 8 must a normal be drawn to make an angle of $45^\circ$ with the axes.	12
6. The eccentric angle of a point on an ellipse is $45^\circ$ , and the angle which the normal at the same point makes with the axis of $x$ is $60^\circ$ . What is the eccentricity of the ellipse?	12

LIMITS AND DIFFERENTIAL CALCULUS.

Maximum No. of Marks 50.

Time, 3 Hours.

	No. of Marks.
1. Two variable quantities may have zero for their limits, and yet not be ultimately equal. Illustrate by the sine and versed sine of a small angle.	7
2. Prove that the volume of a right circular cone is equal to the area of the base multiplied by $\frac{1}{3}$ of the height.	7
3. Find the area of an ellipse.	8
4. Find the volume of an oblate spheroid.	8
5. Which increases faster: a number or its logarithm, an arc or its sine?	7
6. Find the differential coefficient of $a x^2$ , $x$ being independent variable, and $a$ constant.	7

7. Develop by Taylor's theorem: $\tan^{-1}x$ , and $\log(1+x)$ .	10
8. Differentiate $\log \sqrt[4]{\frac{1+x}{1-x}} + \frac{1}{2} \tan^{-1}x$ .	7
9. Show that the differential coefficient with respect to $x$ of $\log(x + \sqrt{a^2 + x^2})$ is $(a^2 + x^2)^{-\frac{1}{2}}$	7
10. If in a spherical triangle $C$ and $c$ remain constant, the corresponding small variations $\delta a$ and $\delta b$ of the sides $a$ and $b$ are connected by the equation: $\delta b \cos A + \delta a \cos B = 0$ .	7

GEODETIC SURVEYING.

Maximum No. of Marks 150.

Time, 3 Hours.

	No. of Marks.
1. A trigonometrical station is situated on the top of a hill, and from it is visible another station on top of a hill of equal height 80 miles distant. The line of sight is at its nearest point 200 feet above the surface of the level plain on which the hills stand. What is the height of the station above the plain?	30
2. In the measurement of the base lines, how are changes of temperature of the rods allowed for or compensated? State some of the methods by which accurate contact of the rods is obtained. How is the effect of flexure of the rods avoided?	30
3. If a base line consists of two parts making with one another an angle very nearly $180^\circ$ , deduce a series to express the distance between the two ends of the base in terms of the parts.	30
4. If the direct angle between two objects not on the horizontal plane of the observer be measured with a sextant of repeating circle, deduce the horizontal angle, in the form of a series. Find the correction to the horizontal angle as measured with a theodolite for inclination of the graduated plate.	30
5. Show that the calculation of the relative positions and azimuths of two stations from the measured distance between them may be made by spherical trigonometry, using a sphere whose radius is the radius of curvature of the great circle perpendicular to the meridian at one of the points; and that the resulting difference of latitude must be multiplied by $\frac{N}{R}$ , the difference of longitude needs no correction, and the deduced azimuth of one point from the other needs a correction almost infinitesimal.	30
6. Show that the azimuth of a vertical flag staff, as seen from a distant station, is different according as the point sighted at is the top or the bottom of the flag staff. Define geodetic lines and curves of alignment.	30
7. What is the effect in seconds on the observed latitude and longitude of a point of the attraction of a hill, estimated at one two hundred thousandth of the earth's attraction, the azimuth of the hill from the station being $\alpha$ . What effect will this attraction have upon the direction of a line run from the point in azimuth $\beta$ .	30

## PROJECTIONS.

*Maximum No. of Marks 100.**Time, 3 Hours.*

- |   | No. of Marks. |
|---|---------------|
| 1. Distinguish between a true projection and development. Describe the orthographic, stereographic, gnomonic and globular projections.  | 30            |
| 2. Describe Mercator's projection; its use and defects.   | 15            |
| 3. In Flamsteed's projection, what are the coördinates of a point whose latitude is $l$ and difference of longitude from middle meridian $n$ ? Explain fully in what respect Bonne's projection differs from the simple conic projection.   | 30            |
| 4. In the polyconic projection how is the azimuth affected by the projection? Demonstrate your assertion.   | 35            |
| 5. In the development of the cone tangent at $49^\circ$ parallel, $97^\circ$ longitude being the middle meridian, what is the offset at longitude $102^\circ$ for that parallel from its tangent, tangent being at the middle meridian.<br>Log $N=6.8443422$ . $N$ being in yards.<br>Scale $\frac{1}{5000000}$ . | 35            |

ASTRONOMY—(*First Paper*).*Maximum No. of Marks 125.**Time, 3 Hours.*

- |   | No. of Marks. |
|---|---------------|
| 1. The sun in rising shone on a mountain peak 4 minutes before he shone on the plane of the horizon. How high was the peak? Latitude $42^\circ$ , sun's declination $20^\circ$ N.   | 25            |
| 2. In what latitude will two stars cross the prime vertical at the same time, their declinations being $\delta$ and $\delta'$ and difference of right ascensions $P$ ?  | 25            |
| 3. The length of the year in mean solar days being 365.24222, show that the arrangement of leap years in the Gregorian calendar entails an error of about one day in 4,000 years, and that in a calendar where 31 leap years are allowed in 128 years, the error would amount to one day in 32,000 years. | 25            |
| 4. Deduce the formula for calculation of latitude by altitudes near the meridian.   | 25            |
| 5. Deduce the formula—<br>$\tan Z = \frac{\cot \delta \sec \varphi \sin t}{1 - \cot \delta \tan \varphi \cos t}$ where<br>$z, \delta, \varphi, t$ , are azimuth, declination, latitude, and hour angle respectively.  | 25            |
| 6. In an observation for time by an altitude, find the position of the star in which a small error in the altitude has the least effect on the deduced time. Find also in what position of a star a small error in the time has the least effect on the deduced azimuth.                                  | 25            |
| 7. Deduce the correction necessary on account of the changing declination of the sun, in the observation for time by equal altitudes before and after noon.   | 25            |
| 8. Deduce a formula for determining the latitude from the observed difference of azimuth of two circumpolar stars at their greatest elongation.   | 25            |

## ASTRONOMY—(Second Paper.)

*Maximum No. of Marks, 125.**Time, 3 Hours.*

	No. of Marks.
1. Find the error in an observed azimuth resulting from inclination of the axis and collimation error.	20
2. How can the inequality of the pivots of a transit instrument be determined? How is it applied in the reduction of observations?	20
3. When the transit instrument is very nearly in the Meridian, find the effects of small errors in azimuth, collimation and inclination. How are the amounts of these small errors practically determined?	20
4. Given a portable transit instrument and a sidereal time piece, describe the method of adjusting the instrument in the meridian.	20
5. When the transit instrument is nearly in the prime vertical, deduce the effect of the small error of azimuth, and also of errors of collimation and level. How are these errors determined? How can the undetermined collimation error be cut out of the result?	20
6. How are the values of one division of the level and the micrometer of the zenith telescope determined?	20
7. Compare the advantages of the three methods of determining latitude:	20
(a) By zenith telescope.	
(b) By meridian altitudes measured with a graduated arc.	
(c) By prime vertical transits.	
8. In determination of longitude by electric telegraph, how are the effects cut out of the time of passage of electricity, armature time, personal equation of observers, and errors in the right ascensions of the stars used?	20
9. Explain the method of determining longitude by moon culminations.	20

## LEAST SQUARES.

*Maximum No. of Marks, 80.**Time, 3 Hours.*

	No. of Marks.
1. In determining the value of one turn of the micrometer of a zenith telescope, we have from 20 determinations of the time of passage of a star through 10 turns of the micrometer, the sum of the squares of the residuals = 68.35. What is the probable error of one turn? Interpret fully in words what is meant by your resulting "probable error."	20
2. Show that the sum of squares of the residuals found by taking the arithmetic mean is a minimum. Define mean square error.	20
3. Given the observation equations, all of equal weight:	20
$x = 1$	
$x + y = 3$	
$x - y + z = 2$	
$-x - y + z = 1$	
Form the normal equations:	
4. Given the telegraphic longitude results:	20
Seattle West of Greenwich $8^h 09^m 19^s.45 \pm .27^s$ .	
Kamloops East of Seattle $8^m 01^s.09 \pm .08^s$ .	
Winnipeg East of Kamloops $1^h 32^m 47^s.34 \pm .12^s$ .	

[PART II]



What is the longitude of Winnipeg, and what is its probable error ?	
5. From the following differences of longitude, deduce the weighted mean and its probable error.	20
Washington—Key West 19 <sup>m</sup> 01 <sup>s</sup> .42 ± . <sup>s</sup> 044.	
19 <sup>m</sup> 01 <sup>s</sup> .37 ± . <sup>s</sup> 037.	
19 <sup>m</sup> 01 <sup>s</sup> .38 ± . <sup>s</sup> 036.	
6. In the longitude triangle, Brest, Greenwich, Paris, the observed values were :	20
Brest—Greenwich, 17 <sup>m</sup> 57 <sup>s</sup> .154 weight 10.	
Greenwich—Paris, 9 <sup>m</sup> 21 .120 “ 7.	
Brest—Paris, 27 <sup>m</sup> 18 .190 “ 9.	
What are the most probable values and the weight of each ?	

SYSTEM OF SURVEY, MICROMETER AND TRACK SURVEYS.

*Maximum No. of Marks, 150.*

*Time, 3 Hours.*

No. of  
Marks,

1. In the first table in the Manual of Surveys, the difference of two successive logarithms of R sin. 1" is three times that of the corresponding logarithms of N sin. 1". Why is this ?	30
2. Find the width of the last range of the 5th Base, west of the 2nd Initial Meridian, adjoining the Third Initial Meridian; assuming that the average elevation of the base line above the sea is 1,500 feet, and that the Initial Meridians are exactly 4° apart.	30
3. Find the width of the north boundary of Tp. 28, R. 17, west of the Second Initial Meridian, this township being surveyed under the third system of survey, while the adjoining range (16) was surveyed under the second system. Given longitude covered by one range of the 8th Base, second system, = 8' 29".698.	30
4. What is the distance of a point in latitude 51°, longitude 107°, from the eastern and northern boundaries of the section in which it lies, and give the section, township and range.	30
5. State fully the advantages and disadvantages for exploratory work of the solar compass, prismatic compass, box sextant and a 4-inch transit theodolite.	30
6. In exploratory work in a mountainous country, where it is desired to locate mountain ranges and the more prominent peaks, what observations would you make, so that a map could be made showing approximately the topography of the country ?	30
7. In an exploratory survey made with an angular instrument, and a distance-measuring micrometer, how can latitude observations be used as a check, and under what conditions will these observations also afford a check of any value on difference of longitude ?	30

THEORY AND USE OF INSTRUMENTS.

*Maximum No. of Marks, 150.*

*Time, 3 Hours.*

No. of  
Marks.

1. What are the principles of the Rochon micrometer and the Lugeol ?	15
2. Give some methods of practically determining the magnifying power of a telescope.	15

3. Express the brightness and the intensity of the image in terms of the diameter of the object glass and the pupil of the eye. For what purposes are telescopes with large objective and low magnifying power used, and when are high powers used?	30
4. How is the perfection of the object glass tested?	15
5. How is the eccentricity of graduated circles eliminated? What are the advantages of three verniers over two?	15
6. What are the qualities of a good level, and how is it tested?	15
7. Explain the method of comparing mean solar and sidereal chronometers by coincident beats. What is the probable error of one comparison?	15
8. How are the index glass, horizon glass and telescope of a sextant adjusted? How is the index correction determined?	15
9. Explain the use of the collimating eye-piece, in the determination of the collimation error of the transit instrument, or the nadir point of a graduated vertical circle. How may it be used to determine the value of a division of the movable thread micrometer?	15
10. Describe the mercurial barometer. What corrections to its readings are necessary?	15
11. Give formulæ for converting Fahrenheit's scale to Centigrade and Reaumer.	15
12. Describe the instruments used for obtaining the hygrometrical conditions of the air.	15
13. Define area of low pressure—isobars and isotherms.	15
14. How is the amount of snow or rainfall measured?	15

## MINERALOGY AND GEOLOGY.

*Maximum No. of Marks, 50.*No. of  
Marks.*Time, 3 Hours.*

1. Substance, a dark yellow powder. Sub. + Ht. (heat) in closed tube = O. Sub. + Ht. do in open tube = becomes red. Sub. + Ch. (charcoal) + R. fl. (reducing flame) = yellow incrustation. Sub. + Na. O C O <sub>2</sub> + Ch. + R. fl. = malleable globule. Sub. gives a colorless bead with both fluxes. Sub. + H Cl. = solution. Sol. + K O H O. = precipitate. What is the substance?	7
2. What are the more important of the iron ores, how are they distinguished from each other, and where do they severally occur in Canada?	20
3. How would you distinguish between scales of gold, mica, iron pyrites and copper pyrites? Give characteristics of each.	10
4. Give a general outline of the position of the azoic rocks in Canada.	10
5. What recognized geological periods are represented in Ontario—between Ottawa and Windsor? Give them in their proper order.	10
6. How are limestones from different localities distinguished as to their geologic age? State some of the limestone formations occurring in Canada, and their position.	10

## TRIGONOMETRICAL LEVELLING.

*Maximum No. of Marks, 50.**Time, 3 Hours.*

	No. of Marks.
1. An observation is taken of the angle of elevation of a mountain peak at a known distance. Deduce a formula for the height of the peak above the observation station, taking account of the curvature of the earth and the refraction.	10
2. How is the co-efficient of terrestrial refraction determined? Explain by formulæ.	10
3. How are heights determined by the temperature of boiling water? What precautions are necessary?	10
4. In the use of the barometer for determining heights, what effect has the temperature? Why is it necessary to compare with the readings of a barometer at another place? How far away may the station of comparison be?	10
5. Why does the length of a pendulum beating seconds vary in different latitudes? What is the law of variation of a pendulum of constant length at different elevations?	10
6. A clock is running with no rate. If the temperature of the pendulum rod is raised 20 degrees, how much will the clock gain or lose in one day, given co-efficient of expansion of the rod = 0.000007, assuming that the only effect of heat is expansion of the pendulum rod?	10

## MAGNETISM.

*Maximum No. of Marks, 50.**Time, 3 Hours.*

	No. of Marks.
1. How is the declination determined? What is the best time of day for observation? What is the approximate range of the diurnal variation? What effect has the secular variation at present upon the declination at Toronto—and what at Winnipeg?	10
2. How is the dip circle placed in the plane of the magnetic meridian? What is eliminated by reversal of dip circle—reversal of face of needle—and reversal of polarity?	10
3. Deduce a formula for determining the dip when the position of the magnetic meridian is unknown.	10
4. Explain the method of determining total force by means of a deflecting magnet. Deduce formula.	10
5. If the total force be found by observation in a plane inclined to the magnetic meridian, deduce the total force in the magnetic meridian.	10
6. Describe the unifilar magnetometer, and the method of determining therewith the horizontal force.	10
7. What is the magnetic pole? Why is the pole for total force not the same as that for declination or inclination?	10

---

PART III.

---

GEOLOGICAL SURVEY.

---



DEPARTMENT OF THE INTERIOR,  
GEOLOGICAL AND NATURAL HISTORY SURVEY AND MUSEUM BRANCH,  
OTTAWA, 31st December, 1889.

The Hon. EDGAR DEWDNEY, M. P.,  
Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit herewith the customary summary report of the work of the Geological and Natural History Survey corps during the past calendar year.

From January to May was occupied in the preparation of the reports and maps that have since been published, forming a volume, in two parts, of about 1,400 pages, with numerous maps and illustrations. It contains thirteen separate reports, relating to the geology, the mineral resources and the natural history of various portions of the Dominion, from British Columbia and the North-West to Hudson's Bay and Nova Scotia.

The following publications have also been prepared and published during the year:—

1. Vol. I., Part 2, Contributions to Canadian Palæontology.
2. Description of eight new species of fossils from the Cambro-silurian rocks of Manitoba, with six plates.
3. Contributions to the Micro-Palæontology of the Cambro-silurian rocks of Canada: by Ulrich.
4. List of publications of the Geological and Natural History Survey of Canada from 1843 to 1889, with prices, and a brief description of the contents and the arrangement of the Museum and Library. 36 pp., R. 8vo.

There are also in preparation and in part ready for press:

1. Enumeration of Canadian Liverworts, with Notes.
2. Part V. of the Catalogue of Canadian Plants.
3. Catalogue of Canadian Birds, with their Habits and Range; also, list of species now represented in the Museum.
4. The Vertebrate fossil fauna of the Tertiary rocks of the North-West, with plates: by Prof. E. Cope.

Early in April, 16 parties were organized for field exploration, and were distributed as follows:—British Columbia, 3; North-West Territory, 2; Manitoba, 1; Ontario, 2; Quebec, 4; New Brunswick, 2; Nova Scotia, 2. A brief summary of these explorations is given in the following pages, as well as of the work that has been performed in connection with the Museum, the Chemical Laboratory and the Library.

Up to the end of June my own time was fully and constantly occupied in attending to executive details, in answering enquiries verbally and by letter, and in work connected with editing the Annual Report and maps above referred to. On the 5th June I left Ottawa, for the purpose of making some observations at various points along the north shore of the lower St. Lawrence and in the Strait of Belle Ile. This was effected by securing a passage on board the Lighthouse Service steamer "Napoleon," but afforded opportunities for examination only at widely separated points, mostly at or in the vicinity of the lighthouses, along the great stretch of over 500 miles of coast line, extending from Point des Monts to Belle Ile. Some interesting facts were, however, ascertained, and I have acquired such a general knowledge of the character of the country as will enable me better to direct any future explorations that may be undertaken in this region with a view to ascertaining what its mineral resources are. In this connection it may be stated that Belle Ile itself, hitherto supposed to be composed of Laurentian gneiss, was found to consist largely, if not wholly, of various crystalline and sub-crystalline strata, like those of the

Huronian mineral-bearing belts of the country north and west of Lakes Huron and Superior, and it is not improbable that considerable areas of these rocks may yet be found on the main land of Labrador; and, if so, they may be expected to be accompanied by deposits of valuable economic minerals, like those which characterize them in all the areas where they have yet been recognized and explored.

Hasty examinations were made, and specimens collected, at the following places:—Point des Monts, Egg Island, Pentecoste, Sheldrake, Seven Islands, Perroquette Island, Esquimaux Island, West, South-west and South points of Anticosti, Greenly Island, Point Amour, Chateau Bay and Belle Ile; and in Newfoundland at Cape Bauld and Quirpon Harbor, and at Capes Norman and Rich. The geological formations of the northern peninsula of Newfoundland have been described in the *Geology of Canada*, 1863, and are there all referred to one or other of the divisions—Levis, Lauzon and Sillery—of the Quebec group. From what I have seen this summer I am led to believe that the true order of succession of the strata has been misinterpreted, as it was in the Eastern Townships, and that much of the so-called Sillery and Lauzon is probably Huronian, but certainly not more recent than Lower Cambrian. Diorites and serpentines appear to be somewhat largely developed, and it seems quite likely that valuable deposits of asbestos may accompany them, as they do in the Eastern Townships of Quebec.

In this connection it may be interesting to quote some passages from a Memoir by A. S. Packard, Jr., read before the Boston Society of Natural History, October, 1865, and published in Vol. I of its Memoirs.

On page 216, under the heading "Huronian Group," he says: "A system of quartzite and trap rocks which lie in a depression of the Laurentian rocks, about 125 miles long and probably 25 miles broad, stretching along the coast between Domino Harbor and Cape Webuc, I refer with some hesitancy to the Huronian series of Sir Wm. Logan, and consider as probably equivalent to the Quartzose division of the primitive slate formation of Newman and Keilhau. It agrees in part with the Domino gneiss of Mr. Lieber." The author then gives further interesting details of these strata, and in conclusion, page 218, says: "Should further search prove the existence, in connection with this quartzite, of beds of a true conglomerate, which we should look for in the interior, and of the presence of copper ore in connection with quartz veins near the trap rock, the identity of this formation with the Huronian rocks of Canada and of similar rocks in Sweden would seem satisfactory; and, if proven, will be interesting, not only to the geologist, but be of practical value in the search for ores on this coast."

Mr. Packard also describes the remarkable columnar basaltic, trap rocks of Castle and Henley islands, in Chateau Bay, but I think erroneously assigns them to the Laurentian. From their attitude and appearance, they are, I think, more probably of Cambrian age, and equivalent to the Animikie of Thunder Bay, Lake Superior, Lake Nipigon, and the islands on the eastern shores of Hudson's Bay. No such rocks are, so far as I am aware, associated anywhere with the Laurentian system. If this proves to be correct, we may expect to find areas in East Main and Labrador of both the Archæan (Huronian) and the Cambrian (Animikie) metaliferous-bearing zones of Lake Superior. The white quartzites of Marble Island, described by Dr. Bell\* as Huronian, seem to correspond closely with those described by Mr. Packard at Domino Harbor and Cape Webuc, while the columnar basalts of Castle and Henley Islands, Chateau Bay, are almost identical with those of Castle Peninsula, Richmond Gulf, † the Outer and Inner Barns of Lake Nipigon and the better known trap formation of Thunder Cape, Pie Island and McKay's Mountain, on Lake Superior.

At Sheldrake near the eastern end of the Seigniory of Mingan, and both east and west of the settlement, the coast is occupied by massive Labradorite rocks. On shore, where tidal action has polished these rocks, some fine examples of the beautiful opalescent anorthosite or labrador spar were observed, but specimens could not

Boston Society Natural History, Vol. I., 1866-69.

\* Report Geological Survey of Canada, 1882-83-84. P. 35 D.D.,

† Bell—Geological Survey of Canada, Report 1877-78, p. 14c.

be easily obtained without appliances for blasting the rock. Inland for a considerable distance, where the vegetation has been burnt, the weathered surfaces of these rocks are perfectly white, making the country look as if there had been a heavy fall of snow. The extent of the area of these rocks in this region is entirely unknown. It is not impossible that it is continuous with that described by Prof. Hind, on the Moisie River and its branches,† and that this again extends continuously south-eastward to Pentecoste River, where similar rocks occur as described by Richardson.\* We should then have in this region the largest known area in Canada of these Norian rocks, and here doubtless it would not be difficult to determine their true relations to the red and grey granitoid orthoclase gneisses, which they have been supposed to unconformably overlies. There can, however, be little doubt that they are intrusive igneous rocks. On the 29th July I returned to Quebec, where Prof. C. Walcott, of the United States Geological Survey, met me by appointment, for the purpose of examining some of the typical sections around Quebec, on the correct interpretation of which so much has of late years been said and written by the geologists of the United States and Canada.

From the 14th to the 23rd August I was occupied, in company with Professor Walcott, in studying the relations of the Cambrian and Cambro-silurian formations on either side of the boundary between Vermont and Canada, with a view to uniformity of mapping by the respective surveys, and which, it is hoped, will now be secured.

After attending the meeting of the American Association for the Advancement of Science, in Toronto, from the 28th of August to the 2nd of September, a few days were spent—with a similar object in view to that above referred to, but in connection with the work now in progress along the Minnesota boundary, in company with Professor N. H. Winchell, of the United States Survey, and Dr. Lawson—studying the Huronian rocks around Sudbury and Algoma, and in an endeavor to show that the metaliferous Huronian strata of the Sudbury-Algoma region do not differ in any important particular from the similarly metaliferous schists, etc., which occur in the country between Lake Superior and Lake Winnipeg, including the Lake of the Woods, and Rainy Lake and River. In connection with this matter, and the importance of the work of tracing out and mapping these bands or belts of Huronian rocks, I may here quote what I wrote respecting it in 1873: † \*

"Apart from the geological interest which attaches to the determination of the distribution of these rocks and their precise relations to the underlying Laurentian gneiss, the foregoing facts show that it is economically important that the extent of these bands should be defined; and that their mineral characters should be closely investigated is equally so, inasmuch as the gold, the copper and the iron of the region, as far as known, are associated with similar strata, and thus not only the best land, but likewise valuable mineral deposits, are to be looked for within the limits which they occupy." \* \*

Since the above was written, nearly all the discoveries and developments of mines and minerals in the Huronian areas that have been indicated by the Survey have been made. That these facts are somewhat of the nature of cause and effect may, I think, reasonably be surmised; and whether they prove the truth or otherwise of the reiterated and apparently somewhat popular statements that of recent years the Survey has paid no attention to and takes no interest in the development of the mineral resources of the country may perhaps be left to the decision of the public and to the testimony of the sixteen volumes of reports, maps and other documents that have been published by the Survey since 1870.

In the enormous area which stretches from the Georgian Bay north-west to the Mackenzie River, and from the same point north-east to the Straits of Belle Ile and Cape Chudleigh, there are probably many such areas to be investigated and located; and a

† Explorations in the interior of the Labrador Peninsula, 1863.

\* Geological Survey of Canada, Report 66-69, p. 307.

\* Geological Survey Report of Progress, 1872-73, pp. 13-14.



map on which they are even roughly indicated will always be a valuable guide to the mineral prospector.

The rest of the season, from the 9th of September to the 10th of October, the date of my return to Ottawa, was devoted to investigations and enquiries bearing on water supply in the North-West. The artesian wells of the James River valley and Devil's Lake, in Dakota, were visited, and also the boring now in progress at Deloraine. The quality of the water in the Dakota wells varies considerably. Most of the wells give a copious supply of excellent water. At Devil's Lake, however, though a copious supply was obtained at about 1,750 feet, the water, though good for stock, contains too much saline matter for ordinary domestic uses. There seems every probability, when a sufficient depth has been reached at Deloraine, of a good supply of artesian water being obtained. What the quality will be there is no evidence to show, but this is not now important, because even if as saline as is much of the surface and the artesian water of the Red River valley, it can, by a simple and inexpensive process of filtration, be made sufficiently pure for all domestic uses. This has recently been proved by experiments made at my suggestion on some of the most saline water of the Red River valley south of Winnipeg. It consists in simple filtration through from 50 to 60 feet of sandy gravel. Further experiments will perhaps suggest additions to the material used that would render the process still more perfect. Even as it is, the importance and value of this discovery to the whole of Manitoba and the North-West in such seasons as that of 1889 can scarcely be estimated.

The history of the discovery and development of natural gas in Ontario, to which I briefly referred in my last summary report, is interesting; but as it is somewhat of a personal character, I shall not now refer to it. The results attained during the past year are stated under the head of mineral statistics. They are highly satisfactory; but it would be well to bear in mind that the supply is not inexhaustible, and that wells that are now sending out their millions of cubic feet a day will gradually decline and become extinct. The greater the number of wells bored in a district the sooner will this inevitable event occur. Unlike water, neither gas, nor oil, nor coal, are constantly replenished, and must therefore sooner or later be exhausted. I called attention to this in my summary report for 1887, pages 24-25; and on page 30 of my summary report for 1888, in commenting on Mr. Coste's report on investigations I had directed him to make the spring of that year. I said: "There seems no reason why further trials, especially in that part of Ontario between Lake St. Clair on the south-west and Lake Simcoe on the north-east, should not prove more successful and yield as abundant a supply of gas or petroleum as do some of the Ohio wells." Since that expression of opinion, all the large gas wells now referred to have been bored.

Dr. G. M. Dawson was, during the past season, again occupied in continuing the geological exploration of the southern part of the province of British Columbia. In consequence of the recent important mineral discoveries in the West Kootanie district, it was considered desirable that he should visit that district in the first instance, and should afterwards give as much time as possible to the completion of the more systematic work on which he had previously been engaged in the Kamloops region. Dr. Dawson, who was assisted by Mr. J. McEvoy, B. Ap. Sc., and by Mr. P. Edgar, furnishes the following summary account of the explorations carried out:—

"About a month, in the earlier part of the summer, was devoted to the examination of the more important localities in the West Kootanie district, which have lately been proved to afford valuable ores. While I was occupied in this work, accompanied by Mr. Edgar, Mr. McEvoy was independently engaged in examining a stretch of country between the North Thompson and Bonaparte Rivers, along the northern edge of the geological map-sheet now in course of completion. Work during the remainder of the season was practically confined to the area of the sheet just referred to.

"It should be explained that, in conformity with the suggestion made in last year's Summary Report, the area covered by the original reconnaissance map of the Southern Interior portion of British Columbia, was divided into four equal parts, each forming a square of eighty miles side, and including a superficies of 6,400 square miles. The scale was at the same time increased from that of eight miles to that of four miles to the inch, and a preliminary compilation on that scale was made by Mr. McEvoy before field work commenced. The sheet to which the field work of last summer related, extends in longitude from the vicinity of the North Thompson to that of Lillooet (long.  $120^{\circ} 10'$  to  $122^{\circ}$ ), in latitude from  $50^{\circ} 10'$  to  $51^{\circ} 20'$ . The exploratory work required for this sheet may now be considered as completed, with the exception of a belt of mountainous country to the west of the Fraser between Lillooet and Lytton. The enlargement of the scale of the map will enable greater justice to be done to the somewhat complicated geological and topographical features of the country.

"The Kootanie district, to the south of the line of the Canadian Pacific Railway, is naturally separated by the high, rugged, axial portions of the Selkirk and Purcell ranges, into eastern and western sub-districts. The first of these may be reached by ascending the Columbia from Golden, the second from Revelstoke, by way of the Columbia River and Arrow Lakes. Much prospecting has been going on in both East and West Kootanie for the past two or three years, and a large number of promising discoveries—chiefly of silver-bearing ores—have been made. The West Kootanie sub-district was that visited by me last summer, and in it no previous observations by officers of the Survey had been made, with the exception of a traverse of the Columbia and Arrow Lakes by Mr. Bowman in 1884.

"Attention was first prominently drawn to the mineral wealth of the West Kootanie region when the discovery of rich ore by the Hall Brothers on a mountain which has since been known as Toad Mountain became known in 1887. Many prospectors soon flocked to the vicinity and a large number of claims have since been taken up, not only on and near Toad Mountain, but also at Hot Springs or Ainsworth, on the west side of Kootanie Lake, at Hendryx on the opposite side, and at many outlying localities. At Nelson and Ainsworth town sites have been laid out, and the first steps toward the establishment of permanent mining centres have been taken.

"Speaking generally of the district, I may say that the result of my examination has been to convince me that the importance of the mineral discoveries made has not been exaggerated, while their number and the area over which they are distributed is such as to guarantee a large and continuous output of good ore so soon as adequate means are provided for the transport of the product to market. As a number of details respecting the various deposits, (chiefly obtained through the kindness of Messrs. G. B. Wright and G. M. Sproat,) have already been given in my report on 'The Mineral Wealth of British Columbia,' recently printed, it will not be necessary in the present summary to speak of the individual claims and deposits visited by me. These particulars I hope to embody in a more comprehensive report shortly to be published. It may be noted, however, that in nearly every instance the result of my personal examination has been to verify the accuracy of the statements made in the publication just alluded to.

"The majority of the ores met with are to be classed as silver ores, and in the vicinity of Hot Springs and Hendryx these are for the most part argentiferous galenas, which, in a number of instances near Hot Springs, are decomposed to a considerable depth, forming so-called 'carbonate-ores.' These possess a special value owing to the ease with which they are worked and their importance in the process of smelting the unaltered galenas. The aggregate quantity of such 'carbonate ores' to be found in the deposits already proved must be great, but all will no doubt pass in depth into sulphide ores.

"At Hot Springs or Ainsworth a truly remarkable number of metalliferous veins has already been brought to light within a very limited area, and additional discoveries are still being made from time to time even within this

area. Near the lake-shore, the country-rock is a coarse mica-schist which is overlain further back by green and grey schists, and these in turn are followed by limestones and black argillaceous schists, a mass of granite bounding the whole at a distance of two to three miles inland. In evident relation to this change in the country-rock is the circumstance that the ores improve almost uniformly in respect to content of silver in crossing the series of veins in a westward direction from the lake and rising higher above the lake-level. Some of the deposits associated with the limestones hold more or less native silver in a filiform condition, and very high assays are frequently obtained from these. It is not yet possible to quote assays of the ores of this vicinity made from specimens collected by myself, but it is safe to say that from several of the claims, considerable quantities of ore can already be obtained by ordinary hand picking which yield from 50 to over 100 ounces of silver to the ton, in addition to a high percentage of lead.

"At Hendryx, the only considerable developments made are those of the New Haven Mining and Smelting Company. The principal feature at this place is a lode of very great size, consisting largely of galena, but classing in respect to silver as a low-grade ore. So soon as efficient means are provided for handling and smelting this ore and shipping the product, a very large output may be counted on.

The Toad Mountain ores differ from the foregoing in containing a large amount of copper and less galena. The Hall Brothers' property, known as the 'Silver King Mine,' from the name of the claim on which most work has been done, is so far the leading one here, and has turned out a considerable quantity of ore which has approached or surpassed \$300 to the ton in total value as sold at the smelter. Other claims are, however, being opened out, some of which present a very favourable appearance.

"At the east end of Toad Mountain, a wide belt of rusty schistose rocks, containing more or less quartz and much iron pyrites, has been discovered. The superficial portions of this belt have been completely oxidised and afford free-milling gold. This property has been acquired by an English company, known as the Cottonwood Company, and a Huntingdon mill has been erected for the purpose of treating, in the first place, the decomposed surface material, of which there is, in the aggregate, a great quantity in sight. The results of trials so far carried out have not been made public. Should it prove, however, that the deeper pyritous portion of the deposit contains sufficient gold to pay for concentration, roasting and chlorination, the quantity of the ore appears to be almost unlimited. Another gold-bearing deposit, in the form of a well-defined vein traversing a granitic rock, is situated on Eagle Creek, toward the west end of Toad Mountain. Work is being carried on here and a stamp mill is in process of erection.

"Beyond the neighborhood of the better known centres, a great number of discoveries, chiefly of silver ores, are reported throughout the district. Most of these isolated localities time did not permit me to visit. Mention may be made, however, of an extensive deposit of copper-pyrites, on the north side of Kootanie River, nearly opposite Forty-nine Creek, and of a peculiar and apparently important occurrence of magnetic iron-ore on the same side of the river below the lower fall.

"No large quantity of ore has yet been shipped from the deposits of the vicinity of Kootanie Lake and Toad Mountain, but small shipments of hand-picked rich ores have been made from time to time during the two past summers, representing a total value of over \$75,000. The ore has been carried down to the lake-shore on horses or mules, taken by steamer to Bonner's Ferry in Northern Idaho, thence over thirty miles by waggon to the nearest point on the Northern Pacific Railway, and then, as a rule, to Montana, where it has been sold and smelted. The cost per ton of transporting the ores to smelter by this route has been not less than \$30, and when to this is added the cost of mining and cobbing the ore, it is evident that very high-grade ore alone can thus be utilized, while even in the case of deposits capable of yielding a considerable proportion of such high-grade material, the greater part of the ore extracted, embracing the lower grades and requiring concentration, must at present be put to one side.

"It may thus be said that the West Kootanie district is at present waiting merely for some satisfactory outlet for its ores, and the developments already made, though for the most part merely of a preliminary character, are such as in my opinion to justify the expenditure necessary to provide such an outlet at once. It might be added, that capital for the proper development of the various discoveries is also required; but this will naturally follow so soon as the district is rendered more accessible, and can only be prevented from doing so, for a longer or shorter time, by the exaggerated ideas of the value of undeveloped properties too apt to prevail among the holders of claims in such new districts.

"The construction of a railway twenty-four miles in length along the unnavigable portion of the Kootanie River, between Nelson on the West Arm of Kootanie Lake and Sproat's Landing on the Columbia, would connect the navigable waters of this lake with those of the Columbia and Arrow Lakes, and would enable ores to reach the Canadian Pacific Railway at Revelstoke. A still more efficient and permanently satisfactory route would, however, be afforded by a direct line of railway from the north end of Kootanie Lake to Revelstoke, a distance of about eighty-six miles by the route which would have to be followed. Of this length of line, however, only that part between Kootanie Lake and the North-east Arm of Upper Arrow Lake need be constructed in the first instance, with a length of about forty-eight miles; the remaining portion of the distance being for a time served by steamer on the Columbia. Still another alternative outlet may also eventually be supplied by a branch line from the Northern Pacific Railway; but it is of importance to the prosperity of the district that it should have a means of communication independent of the rulings of the United-States Customs as to the introduction of silver-lead ores, &c., into that country. The metals likely to be produced in quantity in the district are silver, lead and copper, all of which may be sold to advantage at first hand in the markets to which the same metals are exported by the United States.

"For the purpose of treating the ores from the East and West Kootanie districts, a large and well appointed smelter has just been completed at Revelstoke, while arrangements for the erection of a second are in progress at Golden.

"In the above summary, particular prominence has been given to the main features which appear to be of immediate economic importance in the West Kootanie district. It is of course impossible to give here any general review relating to the province as a whole. It may, however, be stated that during the past summer a considerable amount of substantial progress has been made in the exploration of mineral deposits already known, while a number of new discoveries of promise have occurred. The output of ore, which has already in a small way been fairly initiated, will now doubtless increase from year to year, till British Columbia attains the prominence from a mining point of view which her great mineral resources guarantee. The rate at which this development may proceed must depend for the most part on the degree of energy which those primarily interested exhibit.

"I have reason to believe that the publication giving a synoptical account of the minerals of the province, printed last spring under the title of "Mineral Wealth of British Columbia," has already served a useful purpose, in directing the attention of capital to the province. I may also take this opportunity of stating that gypsum, one of the minerals enumerated in the above mentioned publication among those unknown in British Columbia, has since been discovered, and, according to the accounts received, in large quantity. The locality is stated to be on the Salmon River, about twenty miles distant from the railway. From the excellent quality of the specimens which I have seen, this discovery may prove to be of importance."

---

Mr. Amos Bowman was occupied during a portion of the summer in continuing the examination of the country on the Lower Fraser River, with special reference to the question of the occurrence of beds of coal or lignite-coal of economic importance. This work was briefly referred to in my last summary report and the facts then

ascertained were given. No report of the past season's work has yet been received from Mr. Bowman.

Mr. R. G. McConnell left Ottawa on the 30th of April, with instructions to explore the almost unknown country north of Lesser Slave Lake, bounded by the Peace and Athabasca Rivers. On this work he reports as follows: "I reached the Athabasca landing on the 19th of May, and descended the Athabasca to near the mouth of the Pelican River. From this point a portage of three miles brought us to the Pelican, some miles above its mouth, and above most of the bad rapids. We then followed the Pelican,—a small, winding stream,—to its source in Pelican Lake, and crossing the latter, followed up Beaver Creek for a short distance, and then made a portage of a couple of miles across the height of land to Sandy Lake, which drains northward to the Peace. Following the outlet of Sandy Lake, we soon reached the Wabiscaw Lakes, and crossing these, entered the Wabiscaw River, which we descended to its junction with the Loon, and then continued our way down the latter until it emptied into the Peace.

"Loon River, with its continuation, the Wabiscaw, has a length of about 350 miles, and drains an area of over 25,000 square miles. It might be navigated with strong, light-draught steamers, and by using the line in some places, up to the Grand Rapids, a distance of about 150 miles. Its principal tributaries are Bear River, Pine Creek, Panny Creek, Trout River and Wooden-house River—all fair-sized streams, but reported to be very swift and filled with rapids.

"From the mouth of the Loon we ascended the Peace to Fort Vermilion for supplies, and, then returning, explored Little Red River for a distance of 200 miles. I ascended this river with the expectation of finding exposures of the bitumen-bearing sands which outcrop along the Athabasca, but failed in this, as the river in its upper part does not cut down below the boulder clay, and for long distances is destitute of any valley whatever. The geological data it affords are in consequence very slight.

"Returning from Red River to Fort Vermilion a trip with pack-horses was made into the Buffalo-head Hills, after which we continued our way up the Peace to the Peace River landing, making on the way exploratory excursions eastwards into the wooded country which borders the river.

"From the Peace River landing we crossed over to Lesser Slave Lake, and engaging there a small pack-train, started north along an execrable trail for Trout Lake, where we left the horses and pushed on, partly on foot and partly with canoes, until we reached the Wabiscaw and made connection with the previous traverse down that stream. On this trip I sketched in the outlines of White-fish Lake, Loon Lake, Bear Lake, Trout Lake and a host of smaller ones, and crossed and followed for some distance a score of streams, but obtained little geological information, as the country is everywhere so deeply mantled with drift that none of the streams which I examined have succeeded in cutting through it and so exposing the rocks beneath.

"After returning to Lesser Slave Lake I coasted around it examining on the way the tertiary plateau south of the lake, and Martin Mountain at the north-east corner, and then continued our way down Lesser Slave River to the Athabasca, and down the latter to the Athabasca landing, making side trips on the way to Moose Lake and Baptiste Lake. We arrived at the landing on the 1st October and started at once for Ottawa arriving there on the 13th October.

"The whole country between the Peace and the Athabasca north of the Loon,—an area of about 25,000 square miles,—is generally forested, mainly with spruce and poplar, and is everywhere characterized by an abundance of lakes, and of muskegs and marshes. Narrow strips of excellent land are usually found along the main rivers and surrounding many of the lakes, and in the interior many areas often equal in size to an eastern county, might be selected which are well adapted for cultivation, but the wide morasses which separate these detract greatly from their value. Numerous streams, mostly draining northwards, everywhere intersect the surface. Few of

these have large valleys, and they usually flow in a sluggish manner, often dilating into lakes in the flat districts, but break over the steeper slopes of the country in a series of strong rapids. With the exception of Loon River and Red River, none of the streams are navigable.

"Two ranges of hills cross the district in question. One of these the Buffalo-head Hills, commences abruptly about fifty miles above the mouth of the Loon, with an elevation of 1,000 feet, and running in a south-south-westerly direction, with a gradually diminishing height, dies away opposite the mouth of Battle River, while the other commences north of the east end of Lesser Slave Lake and extends in an easterly direction towards the Athabasca.

"Excellent sections of the rocks of the country are found along the Peace and Athabasca and the lower part of the Loon, but the geological information obtained in regard to the interior of the district is small, owing to the almost complete absence of deep valleys or scarped banks showing exposures. The exploration has, however, added largely to our geographical knowledge of this little known region.

"Lignite was found in several places along the Peace River, but in seams too small to be workable. It was also found in the Laramie plateau, south of Lesser Slave Lake. Here four seams were found ranging in thickness from one to four feet, besides a number of smaller ones, scattered through about 1,000 feet of shales and sandstone. This lignite is apparently of fair quality but has not yet been analyzed. Drift lignite was also found in Martin River near the base of Martin Mountain but was not traced to its source.

"Clay iron stone is of universal occurrence in the Cretaceous shales exposed along the Peace Valley, and, in many places between Battle River and the mouth of the Smoky forms thick accumulations at the foot of the cliffs lining the valley, some of which may prove to be of economic value.

"Gold was found in many of the bars along Peace River and in several places in sufficient quantities to deserve some attention. Four miles above the mouth of Battle River is a large bar, nearly a mile long, from which we obtained fifteen or twenty *colours* of fine gold by washing a few handfulls of the mixed gravel and sand in an ordinary frying pan. We tried the bar at several points, and always with the same result. A small stream descends from the plateau on the opposite side of the river, and by leading its waters across the river, which is here 1,000 feet wide, the bar might be easily and inexpensively worked on a large scale. A few miles further up the river another bar was examined, which yielded from twenty to forty *colours* when washed in the way just mentioned.

"A couple of *colours* of gold were washed out in one place on Loon River. This is of some interest as the Loon heads in a south easterly direction, and has no connection whatever with the mountains.

"Inspissated petroleum, lining cracks in calcareous nodules was found along Peace River for some sixty miles below the Peace River landing. At Tar Islands, about thirty miles below the mouth of Smoky River, there is a saline spring which is kept in a constant state of ebullition by the escape of natural gas. Small quantities of tar line the sides of the spring and float on the surface of the water. This spring and a couple of others which are reported near by, are situated near the axis of a broad, flat anticlinal, one of the essential conditions of a successful oil field. Gas and oil in paying quantities are most frequently found in these great natural domes, and the only element of uncertainty in this district is the presence or absence of some porous formation to act as a reservoir. It is possible that the loose sands found along the Athabasca extend this far, or that some equivalent formation occupies their place, but as natural sections are wanting this can only be proved by artificial sections obtained by boring.

"Bituminous nodules were also observed along the north side of Lesser Slave Lake, and a tar spring is reported on this lake near the mouth of Martin River, but its situation is kept a secret by the Indian who professes to have discovered it.

"The Athabasca River was not examined during the past season, but it is proposed to devote next summer to it and its tributaries.

"Cost of season's exploration, \$2,183.63."

Mr. J. B. Tyrrell, assisted by Mr. D. B. Dowling, was engaged during the past season in making a thorough geological examination and completing the surveys of the shores and islands of Lake Winnipegosis. Red Deer, Swan, Dauphin and Waterhen Lakes were also surveyed and examined. The Red Deer River was explored up to the mouth of the Etoimami, and several excursions were made into the Porcupine Mountains. The expedition was eminently successful in obtaining a continuous section from the Cambro-silurian to the Devonian rocks, and in determining the exact contact of the latter with the overlying Cretaceous beds.

Mr. Tyrrell reports as follows:—

"On 11th May I left Ottawa and proceeded to Winnipeg, where supplies were obtained sufficient to last for the summer, after which I descended the Red River to West Selkirk.

"A small fishing smack had been purchased from Wm. Watts & Son, of Collingwood, and shipped by Canadian Pacific Railway to West Selkirk, whither Mr. Dowling had preceded me by a few days, in order to have the boat launched and properly rigged. Into this the cargo of supplies and general camp equipage, &c., was stowed, and on the afternoon of 23rd May we left West Selkirk and sailed down the river and thence northward across Lake Winnipeg to the mouth of the Little Saskatchewan River.

"In descending the Red River from Winnipeg the banks first seen consist entirely of grey stratified alluvial clay. This deposit gradually decreases in thickness, and at the first rapid the river is found to have cut through these bedded clays into unstratified till containing boulders. From this point downwards the banks constantly show little cliffs of boulder clay containing many boulders of white or cream colored limestone, mixed with some of gneiss, &c., and from those cliffs are falling the boulders that are afterwards carried into the channel, and there cause the rapids which form such serious impediments to the navigation of the river.

"At Lower Fort Garry the Cambro-silurian limestone makes its appearance for a short distance, and thence to the mouth of the river the banks are generally low and wooded, and the channel is wide and deep, so that boats have no difficulty in ascending the stream after the bar at the south end of the lake is crossed.

"Leaving Red River, a straight course was taken across the lake to the north end of Big Island and thence to Black Island.

"The object we had in view in visiting this latter locality was to examine the deposit of iron ore known to occur on its south shore, owned by the International Smelting and Mining Company, of Winnipeg.

"The island itself lies at the north end of the southern expansion of Lake Winnipeg, fifty-four miles from the mouth of Red River, in a large bay or depression in the east shore of the lake, with deep channels both to the east and west of it; that to the west separates it from Big Island, on which there is now a flourishing Icelandic settlement. It has a total length of twelve miles and three-quarters in a direction N. 56° E. and a greatest width of four miles and three-eighths, and an area of 40.4 square miles.

"The southern portion of the island is overlain by horizontally stratified sandstone and limestone of Cambro-silurian age, the latter being somewhat similar to that quarried at East Selkirk and used so extensively in Winnipeg as a building stone. The surface of the island is thickly wooded with poplar, birch and spruce.

"Five miles and a-half along the south-east shore from its south-west point, altered and highly inclined rocks are for the first time met with. They consist of light green ceritic schists and quartzites probably of Huronian age which are often externally reddened by oxide of iron. When first met with they strike N. 15° E. and S. 15° W. and dip at angles varying from 60° to 75°. These schists

outcrop along the shore for a distance of 450 paces, forming generally a rough, irregular beach which slopes gradually into the water.

"Towards the north-east end of the exposure, however, a low rugged cliff rises above and behind the sloping beach, and on examination this cliff is found to consist in the centre of a mass of hematite, which extends along the shore for a distance of a hundred paces and rises to the height of seven feet above the water. As shown in sections running back from the shore, it dips away from the lake at an angle of  $30^{\circ}$ , and in the vicinity of the mass of ore the bedding of the schist is almost entirely obliterated.

"The ore is a more or less pure hematite, not very compact on any of the exposed surfaces, and with numerous little seams and particles of crystalline calcite scattered throughout the mass, along with which are also a number of small lenticules and crystals of quartz. In some places, especially near the outside of the mass, the hematite assumes quite a pisolitic or botryoidal structure, the spherules being often arranged in very well defined rows, the interspaces of which are filled with calcite.

"Towards the outside of the mass in places the ore has been converted for from a few inches to a foot into a hydrated oxide of iron or limonite.

"No analyses have yet been made of the typical specimens collected during the past summer, but a number of analyses have been made of specimens previously sent in from Black Island, both in the laboratory of the Geological Survey of Canada, and by Messrs. Gilchrist, Riley and Miller, in London, England.

"These show an amount of metallic iron ranging from 53.99 per cent. downwards. None were found to contain more than a trace of phosphorus. One specimen gave on analysis 2.026 per cent of sulphur, the sulphur being present in the ore as finely disseminated iron pyrites, while three other specimens show respectively 0.07, 0.12 and 0.032 per cent of this impurity. In the other five analyses the sulphur was not determined. No iron pyrites was seen in the general run of the ore, but indications of decayed nodules could be traced in a very few places as yellow incrustations on the surface of the rock, and two or three small nodules were seen lying loose at the bottom of the cliff.

"As stated above, this deposit extends for about 300 feet along the shore, which has here a direction of N.  $70^{\circ}$  E., rises to a height of seven feet in the centre of the exposure, and dips back from the shore at an angle of  $30^{\circ}$ . The direction of its strike differs very materially from that obtained for the schists at the south-west end of the exposure, but in the immediate vicinity of the ore itself the bedding was entirely or almost entirely obliterated, so that it was impossible to determine in the short time at my disposal whether it was a true bedded deposit, or a lenticular inclusion in the schists.

"The hematite is underlain at the water's edge by a green quartzitic schist, and is overlain by a greenish white argillaceous breccia from one to two feet in thickness. Overlying this is a mixture of quartzite (or infiltrated quartz) and rather hard green schist, containing a considerable quantity of hematite. This quartzose band is again overlain by light green argillaceous or cericitic schists, very much crumpled, but generally dipping at an angle of  $60^{\circ}$  and striking on the west side of the ore N.  $50^{\circ}$  E. and S.  $50^{\circ}$  W. Beyond this is twelve feet of light green soft cericitic schist, and this then runs into the harder and more quartzitic schists, which comprise the rest of the whole exposure of Huronian rocks along this part of the shore.

"On our way north from Black Island we stopped for a short time at the north end of Big Island, at Big Grindstone Point and at Deer Island. The cliffs at these places present some very interesting geological features, being capped by compact impure Trenton limestone, below which are white, more or less soft, sandstones, interstratified with bands of light blue clay shale. These sandstone beds have been referred by Mr. Billings to the horizon of the Chazy of Eastern Canada, on the evidence of a few obscure fossils. These rocks require a much more extended examination, but some fossils were this year obtained from them, which, it is hoped, may determine more accurately their taxonomic position.



"At Deer Island we were delayed several days by heavy north-west winds, so that it became advisable to secure the service of a little steamer that was passing, and obtain a tow to Swampy Island. While waiting at this island for the wind to moderate I secured a fine collection of fossils from a cliff of Trenton limestone, a mile west of the Fishing station. These were immediately packed and, along with the fossils and rock specimens from Black, Big and Deer Islands, and Grindstone Point, were shipped directly to Ottawa, where some of them have since been examined, and are described by Mr. Whiteaves in the Transactions of the Royal Society of Canada, Volume VII.

"From Swampy Island we sailed to the mouth of the Little Saskatchewan River, where the services of several Indians were secured, and the next four days were spent in tracking and poling the boat and canoes with their loads of provisions up to St. Martin's Lake, after which the greater part of a day was occupied in ascending the Partridge Crop River to Lake Manitoba. It was late in the evening of Saturday, the 10th of June, when we arrived at Manitoba House, where we were hospitably received by Mr. and Mrs. Armit.

"The Little Saskatchewan River, from Lake St. Martin to Lake Winnipeg, is for much of the way a swift stream 250 feet wide, and with a depth varying according to the seasons from one to five or six feet. It has a total length of 31.2 miles and a fall in this distance of eighty-five feet, the larger part of which is accumulated into the lowest seven miles of its course.

"Following the river upwards from its mouth for 1.1 mile, the banks are generally low and consist of stratified alluvial clay without pebbles or boulders. The water is moderately deep and flows with an easy current. At this point, however, a light brown calcareous sandstone makes its appearance at the bottom of the bank. This sandstone is in general horizontally bedded, though sometimes slightly undulating, and a few obscure fossils found in it show it to be of the age of the Hudson River formation. It is exposed in low outcrops along the bank for 1.75 mile, when it finally disappears. Throughout the distance it is overlain by stratified blue clay, five or six feet in thickness.

"Above the last outcrop of bedded rock the banks rise rapidly to a height of twenty feet above the bed of the stream, and are here seen to be composed of light grey unstratified boulder clay or till, containing pebbles and boulders, chiefly of white limestone, though some are of gneiss; above which the banks again fall, relatively to the stream, till at the distance of 7.5 miles from the mouth they are only four feet above the water. At this latter point there is another low exposure of rock, consisting of a soft, light, buff-colored, semi-crystalline, horizontally stratified dolomitic limestone, in which are very few traces of organic remains.

"The river between the highest and lowest rock exposures here mentioned is one succession of heavy rapids, the bed of the stream being covered with gravel and boulders. Very few of these latter are of any great size, and it is rather their number than their magnitude that gives rise to the rapids. The channel is very clearly defined; there is no valley, other than the channel itself, and there is no bottom-land, though an occasional slide from some of the higher banks has sometimes the appearance of a kind of grassy terrace. The banks were once very generally timbered with poplar and spruce, but much of this has lately been burnt, and there is now little else to be seen but a succession of dead tree-trunks.

"This long rapid is, as will be seen, a very serious obstruction to the general navigation of the river, but on the other hand it will furnish a water-power that will be of the greatest value to Northern Manitoba in years to come. Above this rapid, which, on account of our heavy load, cost us two days of incessant labor to surmount, the river up to the Elbow, a distance of 8.36 miles is, on the whole, remarkably beautiful. It consists of stretches a mile or more in length of quiet water severed by six short though often swift rapids or shoals, where considerable care must be exercised in navigating the boat, though it was rarely necessary to lighten it. The grassy banks, not more than two or three feet in height, descend in a graceful curve to the edge of the water, or break down in little scarps

covered with sliding clay and pebbles. Open park-like woods of aspen poplar fill in the centre of the picture, and it is only now and then that occasional glimpses can be had of the coniferous forest in the distance.

"Above the Elbow to Lake St. Martin, the river has a length of 15.28 miles, in which distance there are three short rapids, and three other short stretches of river where the current is very swift. For the rest it is generally wide and sluggish, with low, flat meadow banks, evidently often flooded, stretching back to a forest of poplar and spruce. Lake St. Martin is a shallow evaporating basin or expansion at the head of the Little Saskatchewan. It has an elevation of eighty-five feet above Lake Winnipeg or 795 feet above the sea, a shore line of eighty-five miles, an area of  $118\frac{1}{2}$  square miles, and a greatest depth, as far as at present ascertained, of fifteen feet. In it are situated a number of islands, with a total area of  $3\frac{1}{4}$  square miles, some of which, however, are chiefly interesting from the fact that they, along with several hills in the vicinity, are composed of trap and gneiss which rise as bosses above the surface of the surrounding bedded Silurian limestone, though these limestones abut sharply against the gneiss, &c. and are quite undisturbed by it. The islands and hills are thus shown to be original inequalities in the paleozoic ocean floor on which the limestones were laid down, and as these are probably unusually high points on this floor, so there may be unusually deep depressions holding rocks much lower than any now known in Manitoba, the existence of which, however, will in all probability be determined only by close and long continued investigation.

"The total distance through St. Martin Lake from the head of the Little Saskatchewan to the mouth of the Fairford River is twenty-two miles and a half.

"The Fairford River flows from Lake Manitoba into Lake St. Martin, expanding in the middle of its course into a shallow, marshy lake, known as Partridge Crop Lake. The river has a total length of ten miles and a total fall in this distance of about fifteen feet. Most of this fall occurs in two rapids, one a short distance below Partridge Crop Lake and the other a mile and a-third in length, between the Fairford Mission and Lake Manitoba. This latter is caused by a bed of compact white limestone, which crosses the river at the head of this rapid, while most of the other rapids, both in this and the Little Saskatchewan River owe their origin to banks of hard boulder clay and the great numbers of boulders that fall from them and dam back the water.

"The total distance by water from Lake Winnipeg to Lake Manitoba is sixty-three miles and three-quarters, and the time occupied in the journey was a little more than five days.

"After the week of severe and incessant labor, the Sunday at Manitoba House was thoroughly enjoyed as a day of rest.

"Monday was spent in obtaining two experienced canoe men, and on Tuesday morning we set sail for the north end of Lake Manitoba and the mouth of Waterhen River. The wind proved to be contrary, and we were obliged to beat up to Garden Island, where a day was spent running tie lines in the north west portion of the lake, to correct some errors that had crept into its topography.

"From Garden Island we crossed to the mouth of the Waterhen River, and with a fair wind sailed up the river to the Hudson's Bay Company's post, near the south end of Waterhen Lake. From Waterhen Lake we ascended the upper portion of Waterhen River, in which there are no rapids, and skirted along the low lying, gravelly shore on the west side of the long point of land that separates Lake Manitoba from Lake Winnipegosis, till the Meadow or Plain Portage was reached, and of which a careful examination was made. This portage has been already pretty thoroughly reported on by engineers sent out at the time the old location of the Canadian Pacific Railway was being surveyed. It is about two miles in length, and runs over a low flat ridge, the top of which is either marshy or wooded with small oak and poplar, the water in the marshes being dammed back by a ridge of sand and gravel running along the summit of the eastern slope. The top of this gravel ridge is the highest point on the portage, rising from ten to twelve feet above Lake Winnipegosis. This whole point may possibly be underlain by limestone, though none was seen, or it may be a compact ridge of till, with the exception of some of the higher narrow ridges

of sand and gravel above mentioned. A little further to the south I was informed that in seasons of high water the Indians can pass from one lake to the other in their birch canoes without making any portage at all. From the Meadow Portage we coasted along the south shore of Lake Winnipegosis to the mouth of Mossy River, calling at Snake, Spruce and other islands on the way. Numerous exposures of fossiliferous Devonian limestone were examined. The islands, both here and throughout the rest of the lake, were surveyed with a Massey's patent floating log. A micrometer and compass survey was made by Mr. Dowling of the Mossy River, and the shores of Lake Dauphin were run in with the floating log. Descending the Mossy River we coasted northward along the west shore of the lake, past the old Salt Springs—where salt used to be boiled down for the supply of the Red River settlement, and from which water was collected for analysis in the laboratory of the Survey—to the mouth of Pine Creek, where there is another large saline area, from which brine was collected. From the Hudson's Bay Company's store at Pine Creek the specimens of brine and the fossils collected up to that date were shipped to Ottawa in order to avoid possible delay on my return in the autumn.

“North from Pine Creek the shore and adjacent islands were carefully examined, both in connection with any outcrops of the underlying rocks, and to gain all the other information possible about the structure of the islands, the mode of formation of beaches, &c. Many of the islands were found to be rounded or lenticular hills of boulder clay (Drumlins), lying with their longer axis parallel to the glacial striæ, and rising a few feet above the surface of the water.

“A number of soundings were taken, sufficient to show the general depth of the lake in different places, and a record was also kept of any timbered areas seen, although most of the forest has been destroyed by fires that have ravaged this country in late years. We reached the mouth of Shoal River on the 30th of July, but before ascending the river I considered it advisable to examine the islands in Dawson Bay, on many of which cliffs of bedded rock were known to occur. These islands were accordingly visited, and the scientific results obtained from them quite exceeded our most sanguine expectations. They were found to consist chiefly of thick-bedded dolomites very rich in fossils of lower and middle Devonian age, rising in vertical cliffs out of from twenty to thirty feet of water. The high point on the west shore of the bay, known as Point Wilkins, was also found to be particularly interesting, as it showed the lowest sandstones of the Cretaceous rocks in this area resting unconformably on horizontally stratified Devonian limestones. Leaving these interesting cliffs for a time, we took two canoes and ascended Shoal River to Swan Lake. This was a task of considerable difficulty, as the water during the past season was very low, and in periods of high north winds the bar at the head of the river was almost dry. Swan Lake was thoroughly examined, and a survey made of the islands dotted through it. These were found to present exposures of fossiliferous Devonian limestone similar to that seen in Dawson Bay.

“At the south end of Swan Lake a small brine spring is flowing out on the shallow, muddy beach, while a short distance back in the woods a hill rises to a height of between 200 and 300 feet. Its sides are beautifully terraced, showing successive stages in the recession of the water of the general lake under which this country was submerged, down to the conditions at present existing. On some of these terraces many traces are to be seen of a thick deposit of the white sandstone of the Dakota group. These Dakota sandstones have not previously been definitely recognized in Manitoba, though for a number of years they have been known to occur in the states, immediately to the south, and it has been thought that the bitumen-bearing sands on the Athabasca River are also of the same age. This discovery will form an important link in the chain connecting the typical sections in the United States with those in the far North-West of Canada. The sandstones are here found not to be bituminiferous, however, and no bitumen is seen in the underlying limestones, as there is said to be in the limestones on the Athabasca. Their position, immediately overlying the horizontal Devonian limestones, also for

this district practically settles in the negative the question of the existence or non-existence of intermediate Carboniferous rocks.

"From the west side of Swan Lake an excursion was undertaken along the foot of the Porcupine Mountain to Wild Turnip River, a branch of the South Woody River, where a good section of Cretaceous beds was seen, and meanwhile Mr. Dowling crossed to Bell River, and ascended it to the summit of the mountain, also obtaining an excellent section of the Cretaceous shale and the overlying drift. North of Porcupine Mountain the Red Deer River was ascended in canoes to Red Deer Lake. There horses were obtained from a small band of Indians living at the west end of this lake, and with two men I struck back to the foot of the mountain and obtained a good section of the Niobrara-Benton rocks on the North Woody River. From this stream two gravel track ridges were followed alternately to near the mouth of the North Etoimami River, where they merge into an extensive sandy delta plain. An old trail was then followed down the north side of Red Deer River back to the lake. The valley in all its upper portion was found to be thickly filled with till or alluvial deposits. On approaching the lake, however, the river cuts a deep gorge, in which the Dakota sandstones are well shown. The whole of the wide plain or valley lying between the Porcupine and Pasquia Mountains would appear to be underlain by rich alluvial soil, and will doubtless in the near future be the home of a thriving population. Portions of it are now thickly wooded with large spruce, which if protected from destruction by forest fires will furnish Manitoba with an abundant supply of timber.

"From the mouth of Red Deer River we coasted round the north shore of Lake Winnipegosis to the two Mossy Portages, which are respectively the winter and summer highways to Cedar Lake. The western Mossy Portage was examined and surveyed by Mr. Dowling, who found it to be between four and five miles in length, running for the greater part of the distance through a deep mossy swamp, thinly wooded with small spruce and tamarac. The eastern portage runs along the summit of a gravel ridge for all but the northern half mile of its course, the land descending on either side into a mossy spruce and tamarac swamp. About the middle of the portage some small cedars were first noticed, and from here north to Cedar Lake they may be seen at intervals. An old corduroy road is still in existence at the northern end of the portage, made by the Hudson's Bay Company to facilitate the transport of their goods in carts from one lake to the other.

"From Mossy Portage we descended the east side of the lake, where, on account of the extreme low stage of the water, the underlying limestone, here found to be of Silurian or of Cambro-silurian age, was in many places visible. When the water is at its mean elevation this rock would be entirely covered.

From the Hudson's Bay Company's post at Pine Creek I despatched Mr. Dowling with the boats to Manitoba House, where he arrived safely on the 20th of October. On the way he again examined some rock exposures in the south-eastern portion of Lake Winnipegosis, and made a survey, with the floating log, of Waterhen Lake. Meanwhile, I took horses and carts and made an odometer survey of a new cart trail back to one of the upper gravel ridges near the foot of the Duck Mountain, here connecting with my survey of 1887. I also ascended one of the forks of Pine Creek to the summit of Duck Mountain, determining the existence of the Pierre shales in this vicinity. I then drove southward and then eastward through the flourishing settlement on the Lake Dauphin plain to Manitoba House, where I arrived on the 21st of October. We then sailed southward to Westbourne, where the men were paid off, and the boats laid up for the winter.

"Returning to Winnipeg, I made a hasty trip to Deloraine, in south-western Manitoba, where a deep well is being sunk through Cretaceous shales in the hope of finding water. An excellent set of specimens from this well was obtained. The gentlemen engaged in sinking this well have shown the most commendable enterprise in their endeavor to supply a very pressing want in this beautiful section of country; and also, as soon as asked to do so, in collecting specimens from every five or ten feet bored through, in order to make the well of thorough scientific and prac-

tical value to the surrounding country. It is sincerely to be hoped that a large supply of water will be obtained as soon as the permeable Dakota sandstone is struck.

"I returned to Ottawa on the 10th of November, having been absent exactly six months.

"During the year a very large and interesting collection of Cambro-silurian, Silurian and Devonian fossils was gathered, and typical rock specimens were obtained from all the exposures of older rocks, and also from many places where the sands, clays and gravels were examined. Having a small schooner, we were able to transport them to the railway, whereas, if we had been entirely dependent on canoes, it would have been very difficult or perhaps impossible to have got them out of the country. Specimens of brine from all the principal springs in Swan and Winnipegosis Lakes, and Red Deer River, were also secured, and are now in the Museum of the Survey.

"One hundred and ten photographs were taken, illustrating points of geological and historical interest, and showing the general character of the country and the peculiarity of its native inhabitants. Most of these photographs were developed by Mr. Dowling in the field.

"It affords me much pleasure to acknowledge the efficient assistance that I have received from Mr. Dowling throughout the season, not only in carrying on the surveys connected with the exploration, but in carefully collecting fossils and rock specimens from any exposures visited.

"Cost of season's exploration, \$2,176.73."

Dr. A. C. Lawson, assisted by Messrs. W. H. Smith and Wm. Lawson, was engaged during the season in prosecuting geological and topographical surveys in the country north-west of Lake Superior, in continuation of the work of which he has had charge for some years past. He reports as follows:—

"The usual preliminary work of purchasing supplies and hiring men for the season was begun at Port Arthur on 31st May, and a few days later the party proceeded to Savanne, where the survey work proper began. It was deemed expedient to divide into two parties, Dr. Lawson, as usual, devoting his time to the study of the geology of the region; while Mr. Smith, accompanied by Mr. W. Lawson, with a somewhat larger outfit of canoes and men, was engaged throughout the season in making surveys between Savanne and Pine Portage, and thence throughout the country south of the Seine River as far as Sturgeon Falls.

The nature and extent of these surveys may be briefly summarized as follows:—

1. A transit and micrometer line down the old Dawson Route from Savanne to Pine Portage, and thence to the north end of Hunter's Island, connecting there with previous surveys.

2. A transit and micrometer line from a point on the above line, running down the Atic-okan River, and thence down the Seine River to Sturgeon Falls, where connection was made with previous surveys in the Rainy Lake region. These two lines aggregate about 160 miles in length, and afford an excellent base line, to which can be tied the various more rapid compass and micrometer, or compass and log surveys, of the numerous lakes which are distributed over the region.

3. The survey of all the known lakes south of the Seine River, with prismatic compass and log or micrometer.

4. The survey of a chain of lakes in Hunter's Island which it had been found impossible to finish the previous season.

The measurements of these various lake surveys aggregate about 450 miles, and the distances so measured served as the bases for compass triangulation whereby other distances were determined. The area under survey comprised about 1,400 square miles.

Throughout this survey work Mr. Smith took careful notes of the geological features of the country through which he passed, and these, together with an excellent suite of rock specimens which he collected, will be of much service in the mapping

of the region, and in giving direction to future geological examination by Dr. Lawson. Mr. Smith also visited the new iron locations on the Seine River route, which are attracting attention, and procured specimens of the ores. His topographical survey completes all the field work necessary for the construction of the south half of the Seine River sheet. It is estimated that another season's work will be required for the completion of the northern half.

While Messrs. Smith and W. Lawson were carrying out these surveys Dr. Lawson proceeded with the geological examination of a portion of the country where topographical surveys had already been made, supplementing these by his own sketches when necessary. From Savanne he proceeded across Lac des Milles Lacs to the portage leading to Kashabowie Lake, and thence across Kashabowie Portage to Shebandowan Lake. From the west end of this lake a route leading by several long portages and small lakes was followed to Round Lake, and thence the Kahwawagamak River was followed to Hunter's Island. Hunter's Island was the principal field of study; and this route to it was followed chiefly because it passed through a new country which had not been before examined. The greater part of two months was spent by Dr. Lawson in circumnavigating Hunter's Island, and in traversing it in various directions by the numerous chains of lakes which lie within it. The work done together with that of a former year, supplemented by the notes and specimens secured by Mr. Smith in 1888, while making a topographical survey of the island, supplies us with all the data necessary for the compilation of a geological map of the region, the drafting of which is now under way. This sheet, which is known as the Hunter's Island sheet, will, it is expected, be ready for the engraver in the course of a month.

Hunter's island is interesting economically, chiefly for the iron ores associated with jaspery beds which occur on its south-east side, and which are entirely analagous, geologically, to the famous iron ores of Vermilion Lake at Tower, Minnesota. Some patches of good pine at the west end of the island also are of considerable value. Having thus completed all the work that was deemed necessary for the Hunter's Island sheet, Dr. Lawson proceeded to Port Arthur for the purpose of inaugurating some preliminary enquiries into the ancient beaches and terraces of Lake Superior. In various parts of the continent the ancient shore lines of lakes which were once necessarily perfectly horizontal are found at the present day to be tilted at a considerable slope, the measurement of which affords us important data for determining the extent of the local elevation or depression of the crust of the earth in quite recent geological times.

It becomes, therefore, desirable to ascertain whether the old beaches of the north shore of Lake Superior will throw any light on this important problem. With this object in view, Dr. Lawson walked along the Canadian Pacific Railway track from Port Arthur to Terrace Bay, north of the Slate Islands. Numerous old beaches were observed and many interesting notes on the geology of the sections along the railway and the coast were obtained. It was seen that there is a regular succession of beaches and terraces which range between the present level of the lake and an altitude of probably 350 feet. It would seem from the observations made that the beaches run to higher altitudes towards the east, and it was concluded that very interesting results would be obtained by a systematic levelling of the beaches from Sault Ste. Marie to Pigeon Point. This trip along the railway occupied the latter half of August, and at its conclusion Dr. Lawson proceeded to Toronto to attend the meeting of the American Association for the Advancement of Science, in the geological section of which he read two papers on subjects pertaining to Canadian geology. On the way back some days were spent on the Huronian rocks between Sudbury and Sault Ste. Marie, for the purpose of comparing them with the analogous formations north-west of Lake Superior. On the return to Port Arthur the remainder of the season was occupied in levelling up instrumentally the old lake beaches between that town and Pigeon Point; in visiting and examining the Badger silver mine, one of the newest and most successful of the mining enterprises of the region; and in investigating certain reported finds of native copper in the townships of Blake and Crooks.

---

The season's work was brought to a close at Port Arthur on 17th October when Dr. Lawson and party left for Ottawa.

Cost of season's operations for both parties \$2,300

---

Mr. E. D. Ingall, Mining Geologist to the Survey, has been engaged during the summer in continuing the investigation into the nature and lithological surroundings of the deposits of apatite of the River du Lièvres district, in Ottawa county, P.Q.

He says: "In prosecuting this work during the past summer, the main lines upon which it had been started the previous season were adhered to, and efforts were made to further elucidate and understand the nature and origin of the pyroxenite belts, with which the apatite deposits are mostly associated, and the relationships of the same to the rocks forming the general mass of the district, as well as to add to our knowledge of the nature and habits of the apatite deposits themselves.

"In connection with the latter, as many deposits were visited and studied as the time necessarily expended upon the other branch of the work would allow of, whilst the principal mining developments of the district were visited from time to time, so as to watch for and note any new features that might be brought to light during their progress, plans being made of some of the chief of these.

"In pursuance of the first object mentioned, the main source of information on these points would naturally be found in a close study of the contacts of the pyroxenites with the surrounding gneissic and granitoid rocks, so that the investigation thus naturally confined itself to a detailed examination of these points along some of the more thoroughly worked belts, where in the course of considerable mining developments the ground had been sufficiently cleared of bush, &c., to give a reasonable chance of seeing sufficient rock exposures to acquire the evidences sought.

"Thus, the geological work was found to concentrate itself chiefly on the broad and extended belt upon which are the considerable excavations of the Crown Hill, High Rock and Star Hill mines, time being also found to similarly investigate for some distance the belt on which are the openings of the North Star mine and adjacent properties, at which latter point, the belt being narrow and the bush and surface cover having been more thoroughly removed by clearance and bush fires, better facilities were afforded than elsewhere for acquiring the necessary data.

"With a view to illustrating some of the results thus attained, and as a necessary prelude to the purely geological part of the work, the limited areas thus dealt with were mapped accurately and in detail, where small the plane table alone was used whilst where of greater extent that instrument was used to fill in the detail in connection with skeleton transit and chain surveys.

"In this way it is hoped to obtain a few thoroughly worked-out examples which may serve as illustrations of the numerous similar belts in the surrounding country and of their nature, associations and habits, thus possibly adding something to our stock of knowledge of the pyroxene belts and the associated apatite deposits. Such systematized knowledge, systematically applied, must necessarily be the basis of all intelligent mining ventures."

Mr. Jas. White continued attached to the party as topographical assistant, and besides laying out the transit and chain skeletons for the more detailed mining plans and some underground surveys, was mostly engaged completing the necessary surveys throughout the surrounding district for the compilation of an accurate topographical map of the area comprehending the chief mines, with a view to showing their position, means of communication and other such information pertaining to the phosphate district in general.

The topographical work was commenced under Mr. Jas. White's direction on 10th June and finished 16th September, whilst Mr. Ingall followed, and was occupied in the geological investigation from the 10th of July to the 28th of September.

The total expenditure on this work was \$1,399.56.

Mr. Ingall having been recently appointed to the vacant position of Mining Engineer to the Geological Survey, in charge of the collection of the statistical and other information for the compilation of the annual report on the mining and mineral production of the Dominion, his time will be necessarily considerably encroached upon by these new duties, but it is hoped, notwithstanding, during the winter, to prepare for publication the results of the above mentioned work in the Lièvre phosphate belt.

During the season of 1889 Dr. Bell has continued the geological survey of the district around Sudbury, on which he was engaged the previous year, and he has now completed this work over an area measuring 72 miles from east to west by 48 miles from north to south, which will be represented on sheet No. 130 of the regular series of maps on the scale of four miles to one inch. A part of this area has been surveyed into townships by the Crown Lands Department of Ontario. Some of the lakes and rivers within it had been traversed by the late Mr. Alexander Murray, of the Geological Survey, in 1856. These surveys, and also those of the Canadian Pacific Railway lines were utilized by Dr. Bell in laying down his work, but it was found necessary to do a good deal of topographical surveying before the natural features within the limits of this sheet could be correctly mapped. In this work Dr. Bell was again assisted by Mr. A. E. Barlow, who left Ottawa for the field on the 10th of June and returned on the 18th of September, while Dr. Bell started on the 5th of July and returned on the 26th of October.

In addition to the geological investigation work of the season, Dr. Bell made a micrometer survey of Pogamasing Lake and the Spanish River, from near Spanish Forks to the township of Hyman, a distance of about seventy miles, below which the river is laid down on the maps of the Ontario Crown Lands Department and those of the late Mr. Murray. He also made a careful track-survey of Onaping Lake, which was found to be about thirty miles in length, and of a smaller lake lying parallel to it on the west side, and a similar survey of the Onaping River throughout its entire course. Mr. Barlow's time was mostly occupied in surveying the following lakes and rivers by means of the micrometer, at the same time making notes on the rocks which came under his observation: Panache Lake (which had been outlined by Mr. Murray in 1856), two small lakes which he named Wavy and Gabodin Lakes lying to the north-east of the east end of Panache Lake, a canoe-route from Round Lake to Rat Lake, the southern branch of Veuve River, Aiginawassing, Elbow and Red Deer Lakes, the western bay of Lake Nipissing, parts of two western branches of Wahnapiæ River, and the Vermilion River from the intersection of the main line of the Canadian Pacific Railway to a point east of the township of Lumsden.

In the district covered by the above mentioned sheet there are a few settlements, chiefly along the line of the Canadian Pacific Railway, but the district may be described in a general way as still in a state of nature. Scarcely any common roads exist, and it was therefore necessary to carry on operations principally from the railway and from the lakes and rivers as bases from which the minor explorations were made. The surveyor's lines were often useful, not only for locating geographical positions but in facilitating journeys in the woods. Still, there were some tracts in which there were neither the advantage of such lines nor of canoe routes, and in these it became necessary to make the best traverses possible through the primeval forest.

The following are some of the most notable geological features within the limits of the above sheet: The western and north-western part of the ground is occupied principally by a great area of reddish quartz-syenite, which extends beyond the limits of the sheet in these directions. It appears to belong to the Huronian rather than the Laurentian system. The position of the boundary between these two systems was traced north-eastward across the sheet,—the Laurentian consisting almost



entirely of gneiss, occupying its south-eastern corner. There is also a considerable area of these rocks in the middle of the northern part of the sheet.

The great Huronian belt of Lake Huron runs diagonally across the whole sheet, from south-west to north-east, and embraces a considerable variety of rocks, including crystalline schists, quartzites, breccias, conglomerates, argillites, greywackés, diorites, diabases and syenites. These rocks seldom appear to run far as distinct bands with parallel boundaries, but have rather the form of elongated masses, which pinch out in both directions or give place to other rocks. The Huronian region, including the syenitic areas, is traversed by diabase dykes, newer than any other rocks of the district, which are remarkable for their persistence in length. Their commonest direction is about west north-west.

Ores of copper and nickel are the most important of the economic minerals which have yet been discovered in the above district. Five mines are in operation at present. Three of them are worked by the Canadian Copper Company, namely: the Stobie, three miles and a half north north-east of Sudbury Junction, the Copper Cliff, three miles and a half south-west of the same point, and the Evans, one mile further south. The Dominion Mineral Company is working a mine, situated about a mile north-east of the Stobie, and the Messrs. Vivian, of Swansea, are opening the Murray Mine, on the main line of the Canadian Pacific Railway, three miles and a half north-west of Sudbury Junction. Similar deposits of these ores have been found in various localities within the district examined, and these will be described in the fuller report to follow.

The general character of the mixed ore and its mode of occurrence are nearly the same in all three localities. It consists of pyrrhotite in which some of the iron is replaced by nickel mixed with more or less chalcopyrite. These sulphides are mingled with fragments of all sizes of quartz-diorite in some cases, and of a kind of greywacké in others, so that the ore has often the appearance of a conglomerate. The ore-bearing masses are of all sizes, and they take the form of lenses or pod-shaped bulges, conforming with the large scale lamination of the strata. Around the richer ore-bodies the country rock is filled with coarse and fine impregnations of the sulphides. These deposits may be described as "stockwerks" in which the vein structure is very obscure. The strata of the whole district generally stand at high angles, approaching the perpendicular, so that the underlie of the ore-masses is usually very steep. The rocks immediately associated with them are not always the same, but it most frequently happens that the ore itself occurs in some form of diorite, more particularly in diorite breccia, with quartz syenite or gneiss on one side. The diabase dykes above referred to were seen near the ore deposits in several instances, and further search may show their presence in all cases. It would not be surprising if they should prove to have had some connection with the concentration of the ore in these masses, which may be locally enriched portions of certain ore-bearing belts.

Two smelting furnaces, capable of reducing 300 tons of ore a day, are in operation at the Copper Cliff mine. One of them has been running without interruption for nearly a year. The other went into blast on the 4th September. Both the Dominion Mining Company and the Vivians are erecting similar blast furnaces.

The rock specimens collected in the above district during the season number 285, but 665 had been obtained in the same district the previous year, making a total of 950 specimens.

The cost of the season's field work was about \$1,800.

Mr. Low was employed during the past summer in completing the geological investigation of the N. E. sheet of the Eastern Townships map on the north side of the St. Lawrence River, comprising the southern portion of the counties of Quebec and Portneuf—the work extending from Ste. Anne de la Parade on the west to the Montmorency River on the east.

He left Ottawa 23rd May, and was engaged until 17th June, making a micrometer survey of the Ste. Anne River and its north branch, from the northern limit of the sheet to the St. Lawrence.

Odometer surveys of the roads to the west of the Jacques Cartier River occupied the time to 31st July; when a geological examination of that river was made, which lasted until 5th August.

The road survey to the eastward was then continued up to 1st October, with four days spent in making a section along the north shore of the St. Lawrence, from Deschambault to Cap Rouge.

In all eight hundred miles of surveys were completed, comprising six hundred and four miles of odometer, seventy-five miles of micrometer, seventy-one miles of pace, and fifty miles of track surveys. By these surveys the contact of the Laurentian gneisses with the Cambro-silurian limestones and shales was traced out, and the boundaries of the latter formation established.

The rocks of the Laurentian area were carefully examined for economic minerals. Magnetic iron ore in small disseminated masses was found to be common in many localities, but never in sufficient quantities to be practically worked, but showing that such masses may exist.

The prevalent rock being a mica gneiss without pyroxene or limestone, no phosphate areas were found, and are not likely to be discovered in this vicinity. The areas covered with drift and superficial deposits were noted, and will be mapped on the sheet, as they are of considerable economic importance, from the deposits of bog iron ore which occur associated with all, or nearly all of the stratified sands of the region.

The work of Dr. Ells during the past season was, for the most part, confined to the south-west quarter sheet map of the Eastern Townships, and to that portion lying south of the Grand Trunk Railway, between Acton and Richmond, to the Vermont boundary.

In addition, however, accurate chain and micrometer surveys were made of the Black Lake and Thetford asbestos areas, in order to complete the proposed map of that district. The area examined during the season contains nearly all the outcrops of serpentine in the south-western section. A careful study of these was made to determine the presence of asbestos-bearing belts. The character of the serpentine in this section appears to present several points of difference as compared with that from Thetford and Coleraine, and in so far as examined, asbestos in workable quantity has not yet been found in it.

The results obtained during the past season are not yet in shape for publication, more particularly as regards the determination, of the exact age and the relative position of several of the slate formations. The Sutton mountain range of Pre-Cambrian schists and associated rocks was carefully traced to the River St. Francis, and the position of the black slates series, as intermediate between these, and the overlying red and green slates and sandstones of the Sillery, verified; but further careful examinations of these belts will be necessary during the coming season, in order to determine from the evidence of fossils, if possible, or in some other way, the exact horizon of the rocks which extend across into Vermont, and in which surveys are now being carried on by the United States geologists, more especially by Prof. Walcott.

But little work is being done in this section at present in the way of mining. The new mine of the Memphremagog Mining Company, lot 28, range ix, Potton, was examined. It shows a body of ore, mostly iron and copper pyrite, about sixteen feet thick, and extending for several hundred yards. This is capped by a considerable body of bog iron ore, which should be valuable if facilities for shipping and smelting were afforded. But little work other than exploratory has yet been done at this place.

Some efforts have been made to develop asbestos areas on the east side of Brompton Lake, on lot 26, range x, Brompton Gore, but at present this locality is accessible with difficulty, and the indications are not equal to those presented at Thetford and Coleraine. On lot 7, range xv, Cleveland, the slate quarry, formerly

Stubs', has been re-opened by Mr. Bedard and others, and some very good slate extracted. At the time of my visit, however, this work was not sufficiently advanced to warrant an opinion as to its ultimate success. On lot 18, range X, Brompton Gore, a new quarry, in red rock slate, has been started.

Quarries of excellent granite are in operation on the east side of Lake Memphremagog, in the area which extends across the Vermont boundary.

During the past season Dr. Ells was assisted by Mr. Giroux. The surveys of lakes, roads and streams aggregate 750 miles, of which 17 were by chain, 87 by micrometer, 105 by pacing and 547 by odometer. A large collection of graptolites in a very fine state of preservation was obtained from the black slates on the west side of Memphremagog Lake.

The cost of the season's operations was \$1,100, and occupied from the 27th May to the 18th October inclusive.

Mr. F. Adams left Ottawa on 10th July, 1889, and spent about three weeks in continuing the examination of that portion of the St. Maurice district which is included in the N.W. sheet of the Eastern Townships map. On this work he reports as follows :—

"I proceeded first to St. Michel des Saints, a village situated in the township of Brassard, in the county of Berthier, and having secured a canoe and two men, made an examination of the Rivière du Poste (or Rivière au Lac Clair, as it is called on our map), as well as of the lakes out of which it flows. I then examined the country about the Red Canoe River and descended the Matawin to Birch Rapids, about fifteen miles from its junction with the River St. Maurice. I then returned to Montreal by way of Shawenegan, reaching that city on 2nd August. The country examined is all underlain by Laurentian gneiss, that along the Matawin, east of Ile de France, dipping at very low angles, and in many places lying flat. Thin bands of crystalline limestone were found at several places on the eastern arms of Lac Croche (Lac Long), as well as on the discharge of Lac Clair, and at three points along the course of the River Matawin, viz.: (1) in woods about four miles North of Rapids Lacroix, (2) just above Rivière à l' Aigle, and (3) two miles and a-half below this river. In the last mentioned locality the limestone band is about ten feet thick. These limestones hold little grains of serpentine, mica, apatite, &c., and in character are identical with the Laurentian limestones elsewhere. Bands of quartzite, and occasionally thin bands of pyroxenite, are also found associated with these gneisses; their presence, taken in connection with that of the crystalline limestones, shows that the series cannot be considered as belonging to the lower or fundamental gneiss, as had previously been stated. The only anorthosite which was observed, with the exception of that in the township of Shawenegan, which was mentioned several years ago by Mr. McConnell, was a small band which crosses Ile de France, situated in the River Matawin, a short distance below the mouth of the Rivière du Poste, and which was again met with about five miles north of the Matawin, between Red Canoe-Lake and the Rivière du Poste."

Cost of season's exploration, \$158.10

The Rev. Abbé Laflamme has made some further interesting observations in working out the geology in the Saguenay region and in determining the position and approximate extent of certain areas of Cambro-silurian limestones which lie there in depressions in the Laurentian gneiss, but are often largely covered by superficial deposits. Such areas are of considerable economic importance as future sources of lime. Further details of the work in this district will be given in the Annual Report.

Cost of season's work, \$400.00.

On the work in northern New Brunswick and Quebec, Professor Bailey reports as follows :—

"The work of the summer of 1888 having been devoted chiefly to the study of the Silurian system in its extension northward to Lake Temiscouata, as well as east and

west of the latter, and to the preparation of the map sheet (No. 17 N.E.) illustrating the same, that of 1889 has had for its main object the study of the Cambrian and Cambro-silurian rocks, making up a portion of the so-called Quebec group which lies between the lake referred to and the shores of the St. Lawrence, being the area to be included in the next succeeding sheet (No. 18 S. E.) of the series of maps of New Brunswick and Quebec.

As connected with this work, and with a view to a better understanding of the Cambrian strata of the succession, a few days were devoted, in company with Mr. G. F. Matthew, at the commencement of the season, to a revision of those which occur in the valley of the St. John River, in King's county, N.B., and which were referred to in the report of 1873. This revision led to the recognition, in the district mentioned, of most of the sub-divisions of the Cambrian system, as distinguished in the St. John basin, including the red rocks of the series (Series A,) bands *a*, *b* and *c* of Division 1 (Series B,) and an imperfect representation of Division 2; while Division 3, containing the Dolgelly and Arenig faunas, appeared to be wholly wanting.

In Division 1, Band *b*, of Caton's Island, examples were collected of *Obolus pulcher*; Matthew, a fine species resembling *Lingula* (?) *favosa*, Linnarson, of the Eophyton sandstone of Sweden, but larger, and (at Belyea's Landing) specimens of *Volbrothella tenuis*, a species of the blue clay of Russia, thus, according to Mr. Matthew, extending the vertical range of this species in New Brunswick from near the base of the Cambrian deposits upwards nearly to the *Paradoxides* beds. The fossils referred to have been forwarded to the office of the Survey.

After the examinations last described I proceeded northward to the Temiscouata region, devoting a few days, on the way, to search for fossils in the supposed Cambro-silurian rocks of Carleton county, but without adding anything to the information previously had upon the subject.

Upon reaching my proper field of work, my first efforts were given in accordance with your instructions, to the examination of the region about the head waters of St. John River and adjacent to the Quebec boundary, with a view to determine, if possible, the limits of the Silurian basin in that direction, and the distinction between the latter and the resembling rocks of the Eastern Townships, which, formerly regarded as Upper Silurian, have recently been referred by Dr. Ells, upon palaeontological and stratigraphical grounds, to an earlier horizon. For this purpose a traverse was made across the country from L'Islet, on the St. Lawrence, to Big Black River, and down the latter to the St. John, this being followed by the ascent of the last-named stream to one of its principal sources in Baker Lake; and a return traverse, by way of the north-west branch of the St. John and its tributary, the Daaquam, to St. Magloire and St. Valier. These traverses afforded good opportunities for observing some of the varying aspects of the so-called Quebec group, the members of which are generally well exposed; but as regards the rocks in the country lying to the south of the latter, the age of which was one of the chief questions-sought to be determined, the results were much less satisfactory, owing chiefly to the almost entire absence of any exposures from which conclusions could be drawn. As far as could be seen, no appreciable change in the character of the slate occupying the valley of the St. John was discovered, nor any reason for regarding the strata about its head as other than an extension of those of Silurian age found around the lower half of Lake Temiscouata, and over large areas in northern New Brunswick, Quebec and Maine. At one point only (the falls of the North-West Branch) were they found to be fossiliferous; but the remains, in the form of branching and corrugated stems of plants, were too imperfectly preserved to be of any value in the determination of the age of the strata. With the view, if possible, of obtaining further information upon the subject, a few days were subsequently spent, in company with Dr. Ells, in the vicinity of Sherbrooke, where a similar doubt had arisen as to the age of certain slates which hitherto had been regarded as Silurian, but which Dr. Ells now considers as belonging to the Cambro-silurian. The close resemblance of portions of them to the slates of the Upper St. John valley is certainly quite marked, but without more extended information than we have as yet been able to

obtain upon the subject we do not feel justified in concluding that the two are of the same age.

Examinations were also made of portions of the country adjacent to the Temiscouata portage road and in the vicinity of Rivière du Loup, St. Paschal, Kamouraska, Cacouna and L'Islet, partly alone and partly in company with Mr. McInnes. Having taken the field on the 1st of July, my work was continued, with the interruption of a few days only, until the 1st of October."

Mr. McInnes left Ottawa on the 10th of August and arrived at Rivière du Loup on the 12th. The first part of the season was spent in pacing a section along the coast, from the long wharf at Rivière du Loup eastward as far as St. Luce. But few fossils were found in the pre-Silurian rocks during the season. Fucoidal marking, or trails, occur in the greenish-grey slates which underlie the limestone conglomerates, and were noticed at various points along the coast. Numerous fragments of trilobites were found in a pebble in the limestone conglomerate near Trois Pistoles, and obscure brachiopods and a fragment of a trilobite in bands of fine limestone conglomerate, enclosed in soft shale, at the portage road above Rivière du Loup.

A few days were spent on the Rimouski River, in an examination of the high ridge south of Lac Ferri. This was found to be made up of undoubted Silurian strata, highly contorted slates, with bands of limestone. A collection of fossils was made from the Silurian shales at Tuladi Falls, on the Rimouski River. These have not yet been examined.

The remainder of the season, after the 20th of September, was devoted to a survey, by prismatic compass and odometer, of the roads of the district. Two hundred and sixty-two miles were surveyed in this way, and about one hundred miles by pacing. The field work was closed on the 23rd of October:—

"In the study of the region referred to we have necessarily had constantly in view the work of previous laborers in this field, and more particularly the recent investigations made by Dr. Ells and his associates in the Gaspé peninsula, and by the same gentleman, as well as by Dr. Selwyn and others, in the Eastern Townships and around Quebec. As the results of these investigations, in common with our own, differ in important particulars from those of earlier investigators, and tend to place the age and succession of the so-called Quebec group in a very different position from that which it first occupied, we had hoped that the report of Dr. Ells, embodying these results, would have been in hand during the progress of our own field work, and have been available for purposes of comparison. As this, however, has not been the case, we are at present unable to judge how far our conclusions are concordant with or likely to be modified by those obtained by more extended examinations. In view of this fact, and the desirability of the avoidance of any conflict of opinion, it is suggested that a more lengthened report upon the work here reviewed be postponed, until such time as will allow of a further study of the important questions involved."

Mr. Chalmers left Ottawa on the 2nd of May, with instructions to continue the exploration and mapping of the superficial deposits of southern New Brunswick, on which he had been engaged during the two previous seasons (1887 and 1888). Mr. E. W. Swinyard accompanied him as volunteer assistant. The area on which Mr. Chalmers has now spent three seasons is that delineated on the three  $\frac{1}{4}$  sheets—1 S.W., 1 S.E. and 1 N.E.—in which lie the counties of Charlotte, St. John, King's, the chief part of Queen's, and portions of Albert, Westmoreland and Sunbury. The survey of the surface geology of this area is now completed, at least as far as the nature of the country will admit of such being done in detail. Considerable portions are still unsettled and in a wilderness state, and in these, of course, the study and mapping of the surface deposits could only be done in a very general way. The data on hand seem sufficient now, however, to enable the surface geology to be exhibited on the three sheets referred to with a considerable degree of detail, and to prepare a report thereon. This will be done during the coming winter.

The main portion of the past season's work was on the surface geology of sheet No. 1 N.E., that is in the counties of King's, Queen's, Albert and Westmoreland; but unfinished portions of the districts examined during the two previous seasons were also studied. Much difficulty was experienced in determining the mode of glaciation and the distribution of the superficial deposits in the hilly country lying to the south of the great Carboniferous overlap. In the cleared and settled parts, however, careful investigations have been made in regard to striae, boulder-clay, stratified deposits, alluviums, agricultural character of the soil, forest covering, &c., and the results obtained will, it is hoped, serve to elucidate, in some degree, the problems which perplex students of surface geology.

On 2nd of July Mr. Chalmers engaged Mr. W. J. Wilson, of St. John, to examine and map, under his direction, the southern part of Queen's county, included in sheet No. 1 N.E. Mr. Wilson continued this work till the 9th of August, and showed himself competent to perform the duty assigned him in a satisfactory manner. Mr. Chalmers further reports as follows: "The glaciation of the eastern part of the area embraced in  $\frac{1}{4}$ -sheet 1 N.E., in which lies the north-eastern extension of the ridge or plateau bordering the Bay of Fundy, was investigated with some care, and facts of much interest discovered. This ridge forms a prominent feature in the landscape, being higher than any part of the country, except the north-western highlands or the Gaspé peninsula. Here, therefore, we might naturally expect to find traces of a continental glacier, if any such ever swept over the eastern part of New Brunswick. None were observed, however; on the contrary, great masses of decayed rock *in situ* encumber its northern and north-western flanks, while along the valleys of rivers descending from it northwardly into the Petitcodiac striae were found clearly indicating northerly ice movements. Along the Petitcodiac valley, however, which lies below the 200 feet contour line, striae were seen to follow its course, showing ice movements in an easterly direction. It is evident that local glaciers and icebergs were amply sufficient to produce all these phenomena.

On the summit of the Bay of Fundy ridge or plateau referred to, local areas which served as gathering grounds for glaciers, sent some of these off towards the Bay of Fundy. A large number of facts relating to the glaciation of the district will be given in the detailed report.

Excellent opportunities for studying boulder distribution are afforded in eastern and southern New Brunswick. One fact worth noting here is that while boulders from the Bay of Fundy pre-Cambrian ridge are found to have been transported northwardly over the low Carboniferous area, none from the latter rocks were found upon the ridge itself. The older ridges of crystalline rocks have, it would seem, been the centres of boulder distribution, and have sent off waste material in all directions around them. Along coasts and areas submerged during the Post-Tertiary period various distributing agencies seem to have been in active operation, rendering boulder distribution on these lower levels a somewhat complete problem.

Till or boulder-clay is found wherever there are traces of glacier or iceberg action, and in some places where there are none. My study of the boulder-clays in New Brunswick has led me to the conclusion that they have formed in two or three different ways, viz.:—(1) by land ice or icebergs, these two producing similar deposits; and (2) by the kneading and compacting of ordinary decayed rock material *in situ* by ice passing over it, or simply by the weight of ice and snow acting upon it, while saturated with water; and, in some cases, in their beds, by a mechanical assorting of the clays, gravels, &c., somewhat in the manner that hardpan is produced. The first two usually contain transported and glaciated materials; the last do not, except on the surface. Another kind of deposit which resembles boulder-clay, but which occurs in limited quantities, is that of landslips. These landslips may sometimes have produced striae. It is found along the base of cliffs and of mountains, &c., and is without glaciated boulders.

The above classification may render some slight change in the definition of the terms till or boulder-clay necessary. Full details respecting them will be given in my forthcoming report.

The examination and study of the other superficial deposits in the area under consideration have revealed no new facts. I shall now, therefore, briefly refer to the materials of economic importance observed in connection with the work during the past season.

Peat bogs are numerous and well developed near the bay of Fundy coast and in many places inland. Those near Musquash, Popelogan and Digdeguash Rivers are quite extensive. Lying just east of Musquash Harbor is a bog covering an area of 450 acres and 20 feet in depth, which is now about to be utilized in the preparation of "moss litter." This is an article used in stables as bedding for horses. Owners of studs in the United States have for some time been looking for a material for this purpose sufficiently light and porous to be an absorbant of the liquids, moisture and ammonia which collect in stables, and which could afterwards be used as a fertilizer in gardens, &c. A few capitalists from St. John, St. Stephen and other places have formed what is known as the Musquash Moss Litter Company, and having purchased this bog, are now erecting buildings and machinery there for the preparation of this article, which, it is claimed, is well adapted for the object intended, and as good as the imported European moss litter. The kind of peat used is not the upper or living peat, nor the deep-lying, decayed material, but that between the two, in which the mosses and rootlets are only partially decomposed, and which has the fibres nearly whole. The chief process in its preparation is depriving it of the water, of which it contains 90 to 95 per cent. This is done by a plunger, by pressing it between rollers and by evaporation. When thoroughly dried it is packed in bales for shipment, and is worth \$15 to \$17 per ton in the principal United States cities. This new enterprise promises to be successful.

Brine springs are found at Sussex, at Salina, on Salt Springs Creek, and at Bennett's Brook, near Peticodiac. Five or six hundred bushels of salt per annum are manufactured at Sussex. This is all consumed locally, and used chiefly for table and dairy purposes. Several springs occur near the site of these salt works. A boring 125 feet deep was recently sunk at one of these springs—13 feet of it through surface deposits and 112 feet in rock. The object was to find the salt rock, but nothing of the kind was met with. The strength of the brine, I was informed, increased slightly till the solid rock was reached; beyond that it did not perceptibly change. At Salina an attempt was made some years ago to manufacture salt from the brine of the surface springs there, but was discontinued. Possibly a series of borings might result in improving the quality of the brine, but none have yet been made. At Bennett's Brook nothing has been done to utilize the springs there, to my knowledge. In all these places the brine contains a considerable percentage of sulphate of lime or gypsum. There appears to be less, however, in that of the Sussex springs than at Salina or Bennett's Brook. The salt manufactured at the Sussex works is said to be of a superior quality.

Medicinal springs are met with at Apohaqui and at Havelock Corner, King's county. The one at the former place, which is situated about a mile from Apohaqui station, Intercolonial Railway, has attained quite a reputation for its herapeutic properties. It is an alkaline water, and is said by chemists to resemble the famous Vichy water, and also to be a natural emulsifier. Favorable mention has been made of it in the *Canada Medical and Surgical Journal*, and it has been used in the General Public Hospitals of Montreal and St. John, N. B.

The Havelock mineral water has, for some years, had a local reputation as a remedy for certain diseases; and as an extensive deposit of mud surrounds the spring, it might be utilized for the establishment of "mud baths," which are said to be beneficial in the treatment of some diseases.

Infusorial earth has been reported as occurring at Fitzgerald Lake, St. John county, and at Pollett River and Pleasant Lakes, King's county. The deposits at the two first mentioned places are quite large. Mr. Wm. Murdock, C. E., of St. John, who owns the one at Fitzgerald Lake, is endeavoring to introduce this material into use in some ways. Clays and sands suitable for brick-making, &c., occur in

many parts of the district. Near Sussex, and at St. John and Fairville, there are large brick-making establishments.

On the 21st of October Mr. Swinyard left for Ottawa. Afterwards I visited the ship railway now under construction across the Isthmus of Chignecto. In an excavation which is being made for docks in the salt marsh at its western end, the following series of deposits is disclosed:—(1) Marsh mud, 5 to 10 feet; (2) fine-grained, stratified blue clay, holding numerous shells of *Mya arenaria* and *Macoma fusca*—thickness, from a few inches at one end to five to eight feet at the other; (3) peat or humus, six to fifteen inches thick, containing roots and stumps of small trees, chiefly haematace, and in some places portions of the stems. This peat or forest bed evidently grew on a sloping bank at the border of a lagoon or quietinlet. The owest part of it is now twenty feet or upwards below the level of high tides in the Bay of Fundy.

At Aulac station, Intercolonial Railway, which is on the great Tantramars salt marsh, a boring 305 feet deep, was put down under the direction of P. S. Archibald, chief engineer, Intercolonial Railway. This boring shows likewise (1) marsh mud, eighty feet; (2) "turf and bog;" (3) red clay, &c. These facts clearly establish the conclusion that a subsidence has taken place here since the growth of the peat beds, and confirms the observations made previously by Sir J. W. Dawson, (*Acadian Geology*, 3rd ed., p. 13).

Later on a cursory examination of the surface geology of the northern and western parts of Nova Scotia was made. In Pictou county striae and transported boulders, showing northerly ice-movements, were observed. In Annapolis valley boulders derived from the South Mountain were also found strewn about in profusion. Numerous facts having a close relation to the surface geology of southern New Brunswick were noted.

Field work was continued until the 14th of December.

Cost of season's explorations, \$997.75.

The district examined by Mr. Fletcher in Nova Scotia in 1889 comprises a portion of Pictou and Colchester counties, lying between the Gulf of St. Lawrence west of Pictou harbor, and Cobequid Basin, including the valleys of Toney, John, Waugh and French Rivers, on the north side of the Cobequid Hills, and of the Salmon, North, Chiganoise and Debert Rivers on the south side of these hills. The northern part of the district is being opened up by the short line of railway from Oxford to Pictou, now nearly completed, which will pass near the celebrated red freestone quarries of River John, Tatamagouche and Toney Rivers.

Along the north side of the hills, as far west as Waugh River, runs a belt of red conglomerate, described as Permian in previous reports, of the same geological age as that of New Glasgow, interstratified with red grit, sandstone and marl, and overlaid by grey sandstones, like those of Pictou and the West River. These are succeeded in turn by brownish and red sandstones and marls, with one or two thin layers of limestone. They form the rich agricultural country which borders the Gulf shore. All are affected by important east and west faults. Associated with the conglomerate, and also occasionally with the grey sandstones, are veins of albertite and of baryte. The veins of albertite are not, however, confined to these rocks. Hitherto no veins of greater thickness than four inches have been found, and these are lenticular and irregular. Barytes was quarried to some extent in the grey sandstone of Hodson, near River John, some years ago, but at present none of the known deposits are being worked, none of them perhaps warranting a large expenditure for exploitation. Small seams of bituminous coal have been discovered in the grey sandstone, but none seem to be persistent.

Reference has often been made to the grey sulphide and carbonate of copper found associated with carbonized plants in calcareous, concretionary beds among the grey sandstones of this formation, or as nodules in red and green marls. In many places, but particularly on Waugh River and French River, these ores have been largely but not profitably worked.



The rocks of the southern slope of the hills, from Salmon River to Great Village River, near the Londonderry iron mines, consist for the most part of the brick-red crumbly sandstone and conglomerate, called Triassic by Sir J. W. Dawson, underlaid here and there by Carboniferous and probably also by Permian rocks, in some of which unimportant seams of coal have been discovered.

The structure of the Cobequid Hills is much more varied and interesting. No evidence of the age of the trap, felsite, syenite, diorite and schistose rocks was found on the north side of the hills, where they are immediately overlaid by Permian strata evidently newer; but on the south side and towards Earltown, similar rocks cut Silurian and Devonian in such a manner as to make it appear probable that they are igneous and younger than these sedimentary strata. The Silurian is confined to small areas at and near Earltown, in Waugh River, and at Wentworth railway station, the principal sedimentary rocks being an extension of the Devonian slates of Mount Tom and of Waters' Hill, and McCulloch Brook, at the north-western corner of the Pictou coal field, similar to a group containing iron ores in Guysboro', Antigonish and Pictou counties, including the iron ore belt of the Londonderry mines, in the slate of which, on the I. C. R., and many of the brooks of the neighborhood, many well preserved remains of plants have been discovered.

The small coal seams of West River, Riversdale and Kemptown, with their associated slaty shales and quartzites, have been traced in the North, Chiganoise and Debert Rivers, where much money has been spent in attempts to find them in workable shape. In every case in which the including strata have been followed to contact with the syenite and diorite of the hills, they have been found greatly altered.

Towards the close of the season, several weeks were spent in a further examination of the Pictou coal field, in which recent mining operations, borings made by Mr. R. P. Fraser, of Pictou, with the diamond drill for certain mining companies, and geological explorations made by the late Mr. Jesse Hoyt, and Mr. H. S. Poole for the Acadia Coal Mining Company, have added many facts necessary for understanding the complicated structure of this field. A visit was also made to Kennetcook Corner, where coal has been reported to occur; but the seams are all apparently too small to be workable, and the basin in which they lie, between lower Carboniferous limestone and gypsum, is very narrow.

During the past summer two companies began to work the iron ores of the East River of Pictou. One of these, under the management of Mr. H. V. Leslie, of New York, has begun the construction of a railway from Sunnybrae to New Glasgow, which is projected to extend to the harbor of Liscomb, on the Atlantic coast. The second company, under the management of Mr. Graham Fraser, of New Glasgow, has also surveyed a line of railway from the iron mines to the I. C. R., near the fork of the East River, and vigorously pushed the development of the mining areas. The mining has been done on a large vein of excellent limonite, which follows the contact of Silurian and Cambro-silurian rocks with Carboniferous limestone in the valley of East River. The same company is also mining a vein of excellent red hematite at Newton Mills, Stewiacke, and another near Maitland. Other discoveries of red hematite have lately been made in the hills at the head of French and Sutherland Rivers, in Pictou county. Mr. Fletcher was assisted during the summer by Mr. M. H. McLeod, and for nearly three months by Mr. Archibald Cameron. Field-work was begun about the end of May and continued to the middle of December. Mr. Faribault continued his explorations on the gold-bearing series of rocks in Colchester and Halifax counties, and reports as follows:—

"The district surveyed lies westward of that surveyed in 1884 and northward of that surveyed in 1887 and 1888. It comprises, in Halifax county, the whole of the basin watered by the Musquodoboit River and the head waters of the West Sheet Harbor, Tangier, Ship Harbor and Gay's River; and, in Colchester county, the south branch and the south-eastern tributaries of the Stewiacke River and the St. Andrew's River.

Narrow basins of lower Carboniferous rocks extend along the Musquodoboit, Gay's, Stewiacke and St. Andrew's Rivers, containing large deposits of gypsum and

limestone, and lie unconformably upon the sharply folded auriferous rocks of the lower Cambrian. The folding of these latter rocks, and more especially the anticlinal folds, were carefully examined and traced out, on account of their close relation to the richest auriferous belts. The Caribou and Moose River gold mining districts are situated in the region examined. They are now extensively worked with steady good returns. Auriferous quartz veins have also been opened up on Fish River, Gay's River and the south branch of the Stewiacke River, but none of them have so far been worked to any extent."

Mr. Faribault was assisted, as in the previous year, by Messrs. A. Cameron, J. McG. Cruikshank and P. A. Faribault.

An area of some 350 square miles has been surveyed. The season's work extended from the 16th of May to the 1st of October.

Cost of season's work by Messrs. Fletcher and Faribault, about \$2,000.

#### MINING AND MINERAL STATISTICS.

Mr. Brumell was occupied during the winter and spring in preparing the report on the Mining and Mineral Statistics of Canada for 1888. About 3,000 circulars were sent out, and were followed by about two thousand five hundred letters asking for the returns. Fifteen hundred were received.

The work was under the supervision of Mr. E. Coste, M. E., till March, when he obtained leave and eventually resigned his position. A summary statement of the totals of the mineral production for 1888 was published in March, and the detailed report, completed by Mr. Brumell, was published and issued in October, and forms Part S, Vol. IV., of the Annual Report of the Survey.

Of the past summer's work, Mr. Brumell reports as follows:—

"I left Ottawa on 27th August last to visit the various places in southern Ontario, where boring operations were in progress. The counties visited were Welland, Lambton and Essex, in all of which drilling is being actively carried on.

In Welland county a company has been in operation since the month of June last, and had, at the time of my visit, completed one well, which attained a depth of 846 feet, and had begun a second. From the first well a flow of gas of 1,000,000 cubic feet had been obtained, though subsequent to my visit this well was shot, and the flow increased to about 1,750,000 cubic feet.

An accurate log and specimens were obtained of this well, and also of others in the Niagara Peninsula. In August last eight wells had been completed in the Peninsula. Of these, three are at Port Colborne, two at Niagara Falls South, and one each at Thorold, and at St. Catharines and in the Township of Bertie. A very small flow of gas was obtained in the well at St. Catharines and at Thorold, while from the wells of Port Colborne there is a total production of about 50,000 cubic feet per diem. It is understood that the burning spring at Niagara Falls is being supplied with gas from one of the wells recently sunk at that place.

At Bertie and Port Colborne the gas was obtained from the upper beds of the Medina formation, which is reached at these places at a depth of 735 and 730 feet respectively. At Niagara Falls the gas comes from a depth of 201 feet, at which depth the bore is in the lower beds of the Niagara shales, while at Thorold and St. Catharines the flow is obtained from the lower part of the Trenton series, in the former place at a depth of 2,394, feet or 489 feet in the Trenton limestone, and at the latter in a sandstone at a depth of 2,185 feet, or 13 feet below the limestones of the Trenton series.

Two more wells have been drilled in the townships of Birtie and Humberstone, to a depth of 851 and 836 feet respectively, having a flow of gas of about 500,000 cubic feet per diem each, the flow in both cases being from the Medina sandstone.

In Lambton county the oil fields of Enniskillen township are still being extensively drilled upon. A number of drillers living in Petrolia and Oil Springs were interviewed, and logs and information regarding wells throughout the province were obtained from them.

In Essex county exploration for gas is being continued. It has, however, been obtained in quantity but in one well, namely, "Coste No. 1," which has a daily flow of 10,000,000 cubic feet. This well, drilled to a depth of 1,031 feet, is situated in the township of Gosfield, lot 1, concession 3, eastern division. Wells had recently been completed at and near Kingsville and at Comber, and drilling was, in September, being carried on at Amherstburgh, Essex Centre, Marshfield, Kingsville, Leamington and Blytheswood. The well at Marshfield, being sunk for Messrs. Walker & Sons, of Walkerville, will be watched with considerable interest, as it is the intention of the firm to carry this drilling down as far as the Trenton limestone.

Logs and specimens of drillings were obtained of most of the wells in the county. In order to further work out the underground geology of the province, in connection with the boring operations, elevations were obtained of many of the wells, their relative levels to the nearest railway station being generally obtained. Accurate instrumental measurements were made when necessary.

About 150 logs or records are now on file in this office, which number is constantly being supplemented, as operations continue.

Mr. Brumell returned to Ottawa on 3rd October, after having, in addition to the counties named, visited and obtained information in regard to borings at London, Brantford, Hamilton, Toronto and Whitby. Since his return he has been preparing the circulars for the Mining and Mineral Statistics for 1889, and in constructing from the data he obtained during the summer, and from all other available sources, maps and sections on which it is proposed to show the location of the numerous borings that have been made, or are now in progress in Ontario; also, the depth of each boring, and the nature of the strata passed through, and the strata in which gas, oil or water was obtained.

Mr. E. D. Ingall, M. E., Associate of the Royal School of Mines, has now been appointed to succeed Mr. Coste, and will henceforth be in charge of the Mineral Statistics Division, and be assisted by Mr. Brumell.

#### CHEMISTRY AND MINERALOGY.

The report handed me by Mr. Hoffmann on the work carried on in the Chemical Laboratory also embraces that in connection with the Mineralogical Section of the Museum, to the arrangement of which he has devoted much time and care.

Mr. Hoffmann reports as follows:—

"The work carried out in the Chemical Laboratory during the past year was of an almost exclusively economic character, and embraced—

1. Analyses of coals, lignites, and other fossil fuels.
2. Analyses of iron and copper ores.
3. Analyses of limestones and dolomites.
4. Analyses of mineral and other waters.
5. Gold and silver assays.
6. Miscellaneous examinations.

The number of mineral specimens received for examination amounted to 472. A large number of these were brought in by visitors desirous of having them identified and obtaining information in regard to their economic value; and this information was communicated either at the time of their calling or, where a more than cursory examination was called for, subsequently by letter. The number of letters written, most of which partook of the nature of reports, amounted to 205.

Mr. E. D. Adams, in the capacity of Assistant Chemist, rendered good service up to the time of his leaving for field work in July.

Mr. R. A. A. Johnston has, as Junior Assistant Chemist, diligently applied himself to the work entrusted to him. In addition to the gold and silver assays, he has, as opportunity afforded, made further analyses of limestones and dolomites, besides carrying out a great many minor examinations.

In the Mineralogical Section of the Museum a large amount of work has been carried out in the way of labelling and re-adjusting specimens. The manuscript catalogue of the scientifically arranged collection of minerals is, as stated in my last

report, completed, and that of the economic collection of rocks and minerals is now almost so. Apart from the replacement of numerous specimens, already represented, by more typical ones, the collection has been augmented by the addition of some 140 others, including the following presentations:—

Allan, W. A., Ottawa, O.:—

Hematite, from the west half of lot 28, range 5, of the township of Oso, Addington county, O.

Allison, J. F., per Dr. G. M. Dawson:—

Chalcopyrite, from the British Columbia Copper Company's mine, South Similtamen River, B. C.

Bedard, —, per Dr. Ellis:—

Roofing slate, from Bedard's quarry, lot 5, range XV, of the township of Cleveland, Richmond County, Q.

Boulanger, Horace, J. P. for Keewatin and Chief Factor in charge at Norway House, per Mr. J. B. Tyrrell:—

Serpentine, from the extreme north end of Reindeer Lake, N.W.T.

Brock, S. R., Alwyn, Ottawa county, Q.:—

Phlogopite, from the township of Alwyn, Ottawa county, Q.

Brown, John R., St. Alice Hotel, Harrison Hot Springs, B. C.:—

Iron ochre, from Silver Creek, Harrison Lake, twenty miles north of Harrison Hot Springs, B. C.

Breels, Joseph, East Templeton, Ottawa county, Q.:—

Fluorite, from lot 15, range 1, of West Templeton, Ottawa county, Q.

Chambers, R. E., Truro, N. S.:—

Limonite, three miles from Brookfield station, Colchester county, N. S.

Chapman, C., Prescott, O.:—

Huronian quartzite, three polished slabs of, from the north shore of St. Joseph Island, Lake Huron, O.

Dickson, W. H. Ottawa, O.:—

Apatite and graphite, from lot 28, range VI, of the township of Buckingham, Ottawa county, Q.

Furlonge, W. H., Port Arthur, O.:—

Native silver, from Silver Mountain mine, township of Lybster, district of Thunder Bay, O.

Argentite, from the Beaver mine, Rabbit Mountain, district of Thunder Bay, O.

Marion, Rev. Father, Douglas, Renfrew county, O.:—

Magnetite, from lot 24, range II, of the township of Stafford, Renfrew County, O.

McKay, J. W., Kamloops, B. C.:—

Molybdenite, from near the head waters of the South Fork of Spuzzum Creek, Fraser River, B.C.

Poole, H. S., Stellarton, N. S.:—

Altered bitumen, from the falls measures, immediately overlying the Acadia seam at Westville, Pictou county, N.S.

Russell, A. L., Port Arthur, O.:—

Native silver (two specimens) from Silver Mountain vein, mineral location range 56, township of Lybster, district of Thunder Bay, O.

Native silver with sphalerite from Silver Hill, near Silver Mountain, district of Thunder Bay, O.

Argentite, from Silver Mountain vein, mineral location range 56, township of Lybster, district of Thunder Bay, O.

Argentite, from Rabbit Mountain mine, township of Gillies, district of Thunder Bay, O.

Saunders, Wm., Ottawa, O. :—

Altered bitumen, from Queen Charlotte Island, B.C.

Stewart, G., West River, Sheet Harbor, N. S. :—

Native gold in quartz, from the Killog mine, Sheet Harbor, Halifax county, N. S.

Trethewy, T. H., Port Arthur, O. :—

Native silver (two specimens) from Silver Mountain, district of Thunder Bay, O.

Wertheim, Ed., Desjardins P.O., Q. ;—

Asbestos (chrysotile), from south half of lots 27 and 28, range XII, of the township of Coleraine, Megantic County, Q.

Samples of mill-board, steam-packing, &c., manufactured from the asbestos of this locality.

Wilson, —, per Dr. G. M. Dawson :—

Magnetite, Rivers Inlet, B. C.

Mr. R. L. Broadbent has rendered most efficient service in the mineralogical section of the Museum. Indeed, but for the interest and assiduity he has displayed in the work, the progress achieved could hardly have been hoped for. In the early part of the year, Mr. C. W. Willimott was occupied in making up collections of minerals and rocks for various institutions. Of such collections, the following have been sent out in the course of the year :—

	Specimens.
To W. G. Kidd, Public School Inspector, Kingston.....	13
Public School, Upper Sumas, B.C.....	87
Bishop's College, Lennoxville, Q. (Supplementary).....	32
Manitoba College, Winnipeg (supplementary) .....	35
Town Council, Sault Ste. Marie, O.....	112
Bourget College, Rigaud, Q. (Supplementary) .....	40
High School, New Westminster, B. C.....	112
Iberville Convent, Iberville, Q.....	112
Mrs. A. Frechette, Ottawa, O., (fragments).....	70
Rev. D. Borthwick .....	25

During the summer he visited the townships of Leeds, Garthby, South Ham, Grenville, and several of the townships in Ottawa county, in the province of Quebec. A large quantity of material was obtained for the purpose of making up collections for educational purposes, as also numerous interesting specimens for the Museum.

#### PALÆONTOLOGY AND ZOOLOGY.

On these divisions of the Survey's field of operations Mr. Whiteaves reports as follows :—

Advance sheets of the letter press of pages 151-184 of the second part of "Contributions to Canadian Palæontology" were printed and distributed in July, 1889. A similar edition of pages 185-196 of the same publication was printed and distributed in August. The manuscript of the pages last mentioned, which consists of a descriptive report on the fossils of the Niobrara-Benton formation of the Duck and Riding Mountain district in Manitoba, for the most part collected by Mr. J. B. Tyrrell, in 1887, was all written during the present year. The entire part, which consists of 107 pages large octavo, illustrated by fifteen full-page lithographic plates, was issued in August, 1889. About one half of the letter press of the third part of the "Contributions to Canadian Palæontology" has been written. This part is intended to contain a descriptive report on the fossils collected by Mr. McConnell

in 1888 and 1889, from the Devonian rocks at several localities in the Mackenzie River basin. A paper entitled "Descriptions of Eight new Species of Fossils from the Cambro-silurian rocks of Manitoba," has been written for the transactions of the Royal Society of Canada for 1889. Three hundred advance copies of this paper which consists of nine pages quarto of letter press, illustrated by six full-page plates, were printed and distributed in November. A preliminary examination has been made of a rather large series of fossils collected by Mr. J. B. Tyrrell, during the summer of 1889, from the Cambro-silurian rocks at Swampy, Big and Deer Islands, in Lake Winnipeg, at Grindstone Point, on the west side of that lake, and at the mouth of the Little Saskatchewan; also of a number of fossils recently obtained by Mr. R. G. McConnell, from the Cretaceous rocks of the Peace River and its tributaries, Lesser Slave Lake and the Athabasca River. A short visit was made to Thetford, Ont., in September and some fossils of interest were collected from the Devonian shales and limestones of that neighborhood.

In the upper flat of the Museum a new upright glass case, seven feet five inches high, six feet five inches long, and two feet nine inches broad, has been constructed for the reception of the fine collection of Dinosaurian and Mammalian remains recently made by Mr. Weston, from the Laramie and Tertiary formations at various localities in the North-West Territory, and all the specimens in this case have been provisionally labelled. In the same flat a small glass case has been made, in which are now exhibited a named series of the fossil plants collected by Mr. McConnell in 1888, from the Tertiary rocks of the Mackenzie River, 20 miles above Bear River, recently described by Sir William Dawson.

In the Department of Zoology a large collection of the mammalia birds, reptiles, &c., of British Columbia, has been received from Professor Macoun. Seventy-seven additional specimens of fifty-nine species of Canadian birds, and nineteen specimens of sixteen species of Canadian mammals, most of which were collected by Professor Macoun, have been skilfully mounted by Mr. T. Herring during the year. These have been carefully labelled and arranged in their proper places in the zoological cases. Two large upright glass cases (each 7 feet high, 6 feet 5 inches long, and 3 feet 6 inches broad, with plate glass shelves) have also been constructed for this flat of the Museum. One of these is now filled with a collection of the mammalia of Hudson's Bay and Strait (including a pure albino wolf from that district, which has recently been mounted), and the other with a choice series of seals from the Atlantic and Pacific coasts of Canada, and with a fine head of the walrus. The specimens in each of these cases have been re-labelled and re-arranged.

The number of official letters received during the year is 330, and the number written 283.

From the 1st of January to the end of June Mr. T. C. Weston's time has been employed in museum work, in the sections devoted to palæontology and ethnology. Many new specimens have been added to some of the fossil cases, and a large number of labels written. Numerous additional specimens, also, have been placed on exhibition in the room devoted to ethnology, among which are about seventy implements or other objects of Indian manufacture, recently collected for the survey by Dr. Franz Boas, in British Columbia. On the 1st of June Mr. Weston left Ottawa for the Red Deer River, N. W. T. From the Laramie sandstones near Calgary some fine specimens of fossil plants were obtained, which have since been identified by Sir William Dawson, and are now labelled and exhibited in their proper place in the Museum. The Red Deer River, eight miles below the crossing of the Calgary and Edmonton road, was reached on the 13th of June. Four days were spent preparing boats for the journey down the river, and in collecting fossil plants from the Laramie sandstones and argillites of the Blind Man River. On the 17th of June the journey down the Red Deer was commenced, and in a short time the great coal seams in range 24, township 28, were reached. The confluence of the Red Deer with the South Saskatchewan was reached on the 14th of July. Between this point and Tail Creek, a distance of about 250 miles, the rocks were examined in a number of places, and a fine series of vertebrate remains was obtained from the Laramie and

Belly River deposits. Among these are the right and left side of the jaw of a *Deinosaur* (probably *Laelaps*) vertebræ, limb bones, teeth and claw cores. The Battleford and Swift Current crossing was reached on the 19th of July. Ten miles below this, at the mouth of Swift Current, there is a large exposure of the Pierre, from which a small but interesting collection of fossil shells and reptilian remains was obtained. After this the White River beds of the Cypress Hills were re-visited and a few fine fossil bones were collected, among which is a large portion of the right ramus of the lower jaw, apparently of an *Elothorium*. On the return journey to Ottawa, a few days were spent searching for fossils among the Animikie rocks of Port Arthur and Rossport, but none were found. Ottawa was reached on the 21st of August. From 2nd September to the 16th several fossiliferous localities in the Eastern Townships of the province of Quebec were examined, various specimens of interest (including examples of *Salterella* from two new localities) were obtained for the Museum. The remainder of the year has been occupied by Mr. Weston in preparing, labelling and arranging for exhibition in the Museum the collections received during the summer.

With the exception of two months spent in Europe, on leave of absence, a considerable portion of Mr. H. M. Ami's time has been occupied in the examination of numerous collections of fossils recently made by members of the staff at various localities in the provinces of Quebec and New Brunswick. Separate lists of the species from each locality in the province of Quebec have been prepared by Mr. Ami, which have been incorporated into Dr. R. W. Ells' second report on the geology of a portion of that province, and a systematic list of the whole, by Mr. Ami, has been printed as a supplement to that report. Similar lists of fossils, collected at various places in northern New Brunswick and adjacent areas in Quebec and Maine, have also been made by Mr. Ami, which have since been published in Prof. L. W. Bailey and Mr. McInnes' report on the geology of that region. A paper "On a Species of *Goniograptus* from the Levis Formation, at Levis, P. Q.," written by Mr. Ami, has been published in the seventh number of the third volume of the "Canadian Record of Science," and another paper, consisting of additional notes on the same species, has been published in the eighth number of that volume. These papers are illustrated by an octavo plate, skilfully executed by Mr. L. M. Lambe. Some progress has been made in the manuscript of a report on the fossils contained in the Cambro-silurian exposures and outliers in Central Ontario along the line of contact with the Laurentian area to the north. Labels for the species of fossils enumerated or described in recent palæontological publications by Mr. Whiteaves, Prof. T. Rupert Jones, Dr. G. J. Hinde and Mr. E. O. Ulrich, and for other specimens mostly of recent addition to the Museum, have been prepared for the printer by Mr. Ami. By permission of the Director, and on special application, the types of a few Canadian species and some other specimens have been sent for examination to Professors James Hall, T. Rupert Jones and H. A. Nicholson, to Dr. G. J. Hinde and Mr. C. D. Walcott, but all of these specimens have since been returned. Named sets of duplicate fossils are being made up by Mr. Ami for distribution to educational and other public institutions in Canada. One of these sets has been despatched to the Historical and Scientific Society of Manitoba, at Winnipeg, and it is hoped that six similar ones will be distributed at an early date.

In the palæontological work of the office Mr. L. M. Lambe, the artist to the Survey, has also rendered most efficient service. All the drawings required for the illustration of the palæontological publications issued by the Survey during the year have been made by him and he has either effected or superintended their reproduction in a most satisfactory way. He has also made a number of drawings of fossils, which are as yet unpublished, and all the figures which have been used to illustrate Sir William Dawson's paper on the fossil plants collected by Mr. McConnell in the Mackenzie River basin, published in the transactions of the "Royal Society of Canada" for 1889, are from his skilful pencil. In addition to this, Mr. Lambe has materially helped in the elucidation of the characters and specific relations of many of the fossils which have been entrusted to him to draw.

The following collections have been received during the year from members of the staff:—

Dr. Selwyn:—

Fifteen specimens of fossils from the Cambrian and Cambro-silurian rocks of the Strait of Belle Isle and Newfoundland.

Dr. G. M. Dawson:—

About forty fossils from the southern part of the interior of British Columbia. Also a few skins of small mammals and birds.

J. F. Whiteaves:—

About 100 specimens of fossils from the Hamilton shales at and near Thetford, Ont.

Prof. Macoun:—

Skins of 358 birds and seventy three mammals from British Columbia; also a collection of reptiles, butterflies, shells, &c., from the same province.

Dr. R. W. Ells:—

About 100 slabs, containing graptolites, from the Cambro-silurian rocks near Lake Memphremagog, P.Q.

Prof. L. W. Bailey:—

Fifteen specimens of *Obolus pulcher*, Matthew, from the lower Cambrian rocks at Caton's Island, N.B.

J. B. Tyrrell:—

About 5,000 fossils from the Cambro-silurian and Devonian rocks at various localities on Lakes Winnipeg and Winnipegosis.

R. G. McConnell:—

Forty specimens of fossils from the Devonian rocks of the Peace River and 200 from the Cretaceous rocks of the Peace and Athabasca Rivers.

T. C. Weston:—

Fifty specimens of fossils from the Quebec group of the province of Quebec. Thirty specimens of vertebrate and 300 of invertebrate fossils from the Cretaceous rocks of the South Saskatchewan. 200 specimens of invertebrate and the same number of vertebrate fossils, including a fine series of Dinosaurian remains, from the Laramie of the Red Deer River, N.W.T. Seventy specimens of fossil plants from the Blind Man River, N.W.T.

W. McInnes:—

About 100 fossils from Tuladi Falls, Rimouski River, and a few from Notre Dame du Portage, P.Q.

H. M. Ami:—

A number of fossils from the Trenton and other formations near Ottawa; also arrow heads and fragments of pottery from near Casselman, Ont.

The additions to the palæontological, zoological and ethnological departments of the Museum, by presentation, exchange or purchase, are as under:—

*By presentation:*

G. R. White, Ottawa:—

Skin of a female Ruddy Duck (*Erismatura rubida*) from the Ottawa River.

Rev. G. W. Taylor, Stewarton, Ont.:—

Eggs of twenty four species of Canadian birds, mostly from British Columbia. One specimen of a crab (*Echidnocerus cibarius*) from Vancouver Island.



James Fletcher, Ottawa:—

Eggs of thirty two species of Canadian birds, and photograph of egg of the Great Auk (*Alca impennis*).

W. A. D. Lees, Ottawa:—

Eggs of nineteen species of Canadian birds. Specimen, in the flesh, of the Mole Shrew (*Blarina brevicauda*), from near Ottawa.

F. E. Trudeau, Ottawa:—

Mounted specimen of the American Raven (*Corvus corax sinuatus*) shot at Lake Edward, P.Q.

James Davidson, West Templeton, P.Q.:—

Specimen, in the flesh, of an Ermine (*Putorius ermineus*.)

Philip Cox, Newcastle, N.B.:—

Pair of the Hudsonian Chickadee (*Parus Hudsonicas*), from the Miramichi River, N.B.

Joseph Edwards, Ottawa:—

Specimen, in the flesh, of the Northern Hairy Woodpecker (*Dryobates villosus leucomelas*), from Blue Point, Lake St. John. Specimen of the Hoary Bat (*Atalapha cinerea*), from the Rideau River, in the flesh. A Brown Creeper (*Certhia familiaris Americana*.) A male House Wren (*Troglodytes ædon*), both in the flesh; also two eggs of the Horned Lark (*Otocoris alpestris*), and two of the Flicker (*Colaptes auratus*), all from near Ottawa.

The U. S. Geological Survey (per C. D. Walcott):—

Fourteen species of fossils from the Lower Cambrian rocks of Newfoundland, &c.

J. Heron, Billing's Bridge:—

A female Woodchuck (*Arctomys monax*), in the flesh.

J. H. Bartlett, Ottawa—

Female Jumping Mouse (*Zapus Hudsonius*) from Billing's Bridge, in the flesh.

W. C. Bedingfield, Ottawa:—

Nest of the Ruby Throated Hummingbird (*Trochilus colubris*), from Kemptville.

H. M. Ami, Ottawa:—

One Brown Bat (*Scotophilus fuscus*), in the flesh.

D. Herring, Toronto.—

Skin, since mounted, of a female Buffle Head (*Charitonetta albeola*); do of a female Green-winged Teal (*Anas carolinensis*); do of a female Blue-winged Teal (*Anas discors*), and do of a female Black-throated Green Warbler (*Dendroica virens*); all from near Toronto.

S. Herring, Ottawa:—

Pair of the Whip-poor-Will (*Antrostomus vociferus*), from near Toronto.

W. McRae, Twin Glen, Carleton Co., Ont.—

Rattle of a large Rattle Snake from Arkansas.

Dr. C. A. White, Washington, D.C.:—

Three specimens of *Astarte Packardi*, White, from the Sauranodon beds ("Jurassic") at Aurora, Wyoming.

Alex. Jacques, Ottawa:—

Piece of oak of the "Royal Savage," a culverin and musketoon ball, each of which were taken out of a beam on the church at Plattsburgh, and pieces of Indian pottery found near that city.

Piece of sound wood found 116 feet below the surface of the ground at Polk Co., Indiana.

W. J. Baylay, Ottawa:—

Female Sharp-shinned Hawk (*Accipiter velox*) shot at Aylmer, P.Q., in the flesh.

E. G. White, Ottawa:—

Specimen of the American Crow (*Corvus Americanus*), in the flesh.

R. A. Johnston, Ottawa:—

Albino Chipmunk (*Tamias striatus*), from Uxbridge, Ont.,—mounted.

Sir William Dawson, Montreal:—

Sixteen specimens of ten new species of fossil sponges, one example of *Buto-trephis pergracilis*, Dawson, and nine of *Linnarssonia pretiosa*, from Métis, P.Q.

Prof. R. J. Hill, Austin, Texas:—

Thirty-one specimens of *Terebratula Wacoensis*, Røemer, from the Washita limestone west of Austin, Texas.

Rev. Hector Currie, Thedford, Ont.:—

Twelve specimens of fossils from the Hamilton shales near Thetford.

Rev. W. H. Barris, Davenport, Iowa:—

One specimen each of three rare species of fossils from the Hamilton formation near Alpena, Michigan.

R. R. Rowley, Curryville, Pike Co., Missouri:—

One hundred and three specimens of twenty-four species of fossils from the Burlington and Kinderhook formations at Pike Co., Miss.

#### By Exchange.

From the Manitoba Historical and Scientific Society, Winnipeg, per C. W. Bell (President):—

Four fossils from the Cambro-silurian rocks of East Selkirk and Stony Mountain, and two from the Cretaceous rocks of the N. W. T.

From Prof. T. F. Calvin, Iowa City:—

Thirty-two species of fossils from the Devonian rocks of Iowa and Missouri, one from the Niagara limestone of Iowa, two from the Hamilton shales of Ontario, and six from the Cretaceous of Montana.

#### By Purchase.

Semi-albino Red-tailed Hawk (*Buteo borealis*); semi-albino Song Sparrow (*Melospiza fasciata*); male Grasshopper Sparrow (*Ammodramus savannarum passerinus*); female Wilson's Warbler (*Sylvania pusilla*); and albino or nearly albino variety of the Red Squirrel (*Sciurus Hudsonius*); all from Hyde Park Corners, Ont.

Albino American Crow (*Corvus Americanus*), shot near Whitby, Ont.

Remarkable colour variety of the American Robin (*Merula migratoria*), shot near Ottawa.

Male Murre (*Uria troile*), shot near Wakefield, P.Q.

Male Coot (*Fulica Americana*), shot near Toronto.

Sixty-four specimens of fossils from the Silurian and Devonian rocks of western Ontario.

Skeleton of a large Snapping Turtle (*Chelydra serpentina*), obtained at Markham, Ont., and prepared by M. Jules Bailly, Montreal.

In the section of entomology Mr. Fletcher reports that the collections have been regularly examined since they have been in his charge, and are now in a good state of preservation, no instance of injury by insects, mould or accident having occurred.

Mr. Fletcher further reports as follows:—

The collections have been considerably augmented by donations, and by the labours of different members of the staff of the survey, who have brought from distant

localities a number of insects of rarity and interest, many of which were previously unrepresented in the cabinets.

Since Mr. Fletcher had charge of the collection, (1887) the following additions, made by members of the staff, have been examined, identified and prepared for the cabinets.

1. By Professor Macoun, at Nipegon, in the Rocky Mountains, in Vancouver Island, in Prince Edward Island and on the mainland of British Columbia.

2. By Dr. G. M. Dawson, in the Yukon District and in the interior of British Columbia.

3. By Messrs. McConnell and Ogilvie, in the Mackenzie River district.

4. By Mr. Frederick Bell, at Fort Simpson, Mackenzie River, and presented for the museum to Mr. McConnell.

5. By Mr. J. B. Tyrrell, in Manitoba.

6. By Mr. A. P. Low and Mr. J. M. Macoun, at Hudson Bay.

7. By Mr. J. S. Cotter, at Moose Factory, Hudson Bay, and presented to Mr. Low, for the museum.

8. By Mr. T. C. Weston, in the North-West Territory.

Of these collections by far the most important were those made by Professor Macoun, Dr. Dawson and his assistant Mr. McEvoy.

It is true that most of the above mentioned collections consisted largely of specimens in a poor state of preservation; but they included many rare insects, amongst the more important of these are the following:—*Oeneis Macouni* and *Nemeophila Selwyni*, both new species discovered by Professor Macoun, at Nepegon, *Papilio Machaon* var *Aliaska*, collected by Dr. Dawson on the Liard River, and by Mr. Ogilvie, on the Mackenzie River, *Erebia discoidalis* collected at Fort Simpson, Mackenzie River, by Mr. Frederick Bell, *Colias Nastes* brought from Hudson Bay by Mr. Low, *Colias Interior* from Nipegon and Prince Edward Island, collected by Professor Macoun. A fine series of *Lycaenia Couperi* was brought from British Columbia by Dr. Dawson. The specimens in the best preservation were those collected by Mr. James McEvoy and by Messrs. James and William Macoun.

In addition to the above, fine collections of insects belonging to various orders have been presented to the museum, by Mr. T. E. Bean, of Laggan, North-West Territory.

All the specimens bear dates and localities of their capture, which materially enhance their scientific value.

During the past year several students have examined the collections.

Mr. Fletcher is at present engaged in the preparation of a small collection representing the insects of Canada only, which is for exhibition in open cases in the hall of the museum, and which it is believed will be of interest to visitors.

#### BOTANY, &c.

During the greater part of the winter Professor Macoun was confined to the house by sickness, but with the aid of his assistant, Mr. J. M. Macoun, the office work was carried on and the specimens that had been collected during the summer were named and mounted. He was also able, before leaving for the field, to make good progress with the catalogue of Canadian birds, referred to in the summary report for 1888.

On the work of the past summer, Professor Macoun reports as follows:—

"On the 30th of March last, accompanied by my assistant, I started for British Columbia, and reached Vancouver, 4th April. Next day we commenced work, and between that date and 12th August, with the aid of one man, we collected birds, mammals, reptiles and insects, and also made a complete collection of the flora from the coast to the Eagle Pass in the Gold Range, a distance of nearly 400 miles on the Canadian Pacific Railway. This being the first season of my duties of naturalist, we devoted much more time to general natural history than to botany. Our season's work ended at Griffin Lake, on Eagle River, after we had lived at an altitude of 7,000 feet for ten days, and collected as much of the mountain flora and fauna as time and means would permit.

The total cost of the exploration was \$1377.21.

"Since our return to Ottawa we have been engaged in sorting, naming and arranging the collections of the season. Satisfactory progress has been made up to 31st December; forty species of plants new to science have been examined and named, and others are still to be determined.

Mr. Pearson's paper on Canadian Liverworts is now passing through the press, and will be followed by Part V. of the Catalogue of Canadian Plants, and by the Catalogue of Canadian Birds, already mentioned. These papers were placed in the hands of the printer last spring, so that they might be in type before my return.

During the past three years I have spent much time in collecting and working up the mosses of the Dominion, and with the aid of European specialists, hope during 1890 to complete the work, and publish a full list of them, forming Part VI. of the Catalogue of Canadian plants.

Many hundred species of plants have been received from Newfoundland, and from every province in the Dominion, for identification, the largest number being from Newfoundland, Quebec and New Brunswick.

While in British Columbia we collected over 1,400 species of plants, in which were included more than 15,000 specimens; 431 skins of birds and mammals, representing 141 species were secured. Nearly 100 reptiles were collected and preserved in alcohol, and several hundred insects, which are now being determined by specialists.

All work in connection with the herbarium, and the distribution of specimens, has been done by Mr. Jas. M. Macoun. During the past year there were mounted and placed in the herbarium 4,406 sheets of specimens. Of these, 3,592 sheets were of flowering plants, and 814 of cryptogams. Of the flowering plants, 1,987 sheets were Canadian, 1,079 from the United States, 340 from Australia and 186 from Europe. The cryptogams mounted were, with few exceptions, Canadian; 5,960 sheets of specimens were sent to public institutions and to private individuals in exchange for desiderata; 3,593 of flowering plants and 2,167 of cryptogams. These included 400 sheets to the University of Copenhagen, in exchange for which plants from Greenland were sent; 432 sheets to Columbia College; 445 sheets to the British Museum; 293 to the National Museum at Washington; 200 to Miss R. Marson, Lausanne Switzerland; 200 to J. B. Ellis, Newfield, N. Y.; 100 to Prof. L. M. Underwood, Syracuse, N. Y. For all of these, specimens have been sent us in exchange; but besides these several hundred specimens were sent to McGill University, the Department of Public Instruction, Quebec, Harvard University, the California Academy of Sciences, the University of Nebraska, and a set of Canadian grasses to Prof. Scribner, at Knoxville, Tenn., U. S.

Since my last report, 448 letters, of sufficient importance to copy, were written in connection with our work and about the same number were received."

While the collections of Natural History specimens are rapidly growing larger, and increasing in value, no greater space is being given for their disposal, and while the danger from fire is constantly increasing, the absence of any fire-proof room or building renders it impossible to take any precautions to insure their safety. The room now occupied by Professor Macoun is so crowded with inflammable material that a spark, or the dropping of a match, would in a few moments cause the destruction of specimens of inestimable value, which could never be replaced, and such a fire would endanger the whole building.

MAPS.

Maps in course of preparation and lately published, December, 1899.

	Area in Square Miles.
Yukon district, North-West Territory, and adjacent northern part of British Columbia (3 sheets), published 1889, scale eight miles to one inch . . .	
Index Map of above, published 1889. Report B. 1887-88. . . . .	
Big River, Great Whale River, &c., E. coast Hudson's Bay (unpublished), scale eight miles to one inch. . . . .	

British Columbia, part of Southern Interior (Dr. Dawson), in draughtsman's hands, scale four miles to one inch .....	6,400
Kootenay district, British Columbia (Dr. Dawson), in draughtsman's hands, scale eight miles to one inch .....	11,000
North-Western Manitoba Preliminary Map, published. Report E, 1887-88 Mr. Tyrrell, scale eight miles to one inch .....	12,000
Northern Manitoba, in draughtsman's hands (Mr. Tyrrell), scale two miles to one inch .....	5,000
Northern Manitoba, in draughtsman's hands (Mr. Lynch), scale eight miles to one inch .....	20,000
Western Ontario, Lake of the Woods (5 sheets), No. 2, ready for engraver shortly, scale two miles to one inch .....	2,000
Western Ontario, Rainy Lake Map (No. 3), published Report F, 1887-88, scale four miles to one inch .....	3,456
Western Ontario, Hunter's Island Map (No. 7), in hands of draughtsman, scale four miles to one inch .....	1,450
Ontario, Sheet 130 (Sudbury Mining District), Dr. Bell, in hands of draughtsman, scale four miles to one inch .....	3,456
Ontario, Sheet 115, ready for draughtsman, scale four miles to one inch....	3,456
Ontario, General Map (in progress), scale four miles to one inch .....	
Quebec, N. E., $\frac{1}{4}$ sheet (E. Township map), in hands of draughtsman, scale four miles to one inch .....	4,500
Quebec, S. W., $\frac{1}{4}$ sheet (E. Township map), in hands of draughtsman, scale four miles to one inch .....	4,500
Quebec, N. W., $\frac{1}{4}$ sheet (E. Township map), partly in hands of draughtsman, scale four miles to one inch .....	4,500
Quebec, Lièvre River and Templeton phosphate region (Ottawa county), scale forty chains to one inch, Mr. Ingall, ready for engraver in about two months .....	260
Quebec, New-Brunswick, $\frac{1}{4}$ sheet 17 N. E., published 1887-88, and $\frac{1}{4}$ sheet 18 S. E., in hands of draughtsman .....	
Nova Scotia, $\frac{1}{4}$ sheet 11 N. W., and S. W., in engraver's hand, scale four miles to one inch .....	
Nova Scotia, $\frac{1}{4}$ sheet 4 N. E. and S. E. (Mr. Fletcher), drawn on scale of one inch to one mile .....	
North-West Territory, Mr. McConnell's traverses on the Liard, MacKenzie and Porcupine Rivers, in the draughtman's hands, scale eight miles to one inch .....	

## LIBRARY.

The Librarian, Dr. Thorburn, reports that from 2nd January to 31st December, 1889, the number of copies of the Geological and Natural History Survey publications, comprising annual reports, parts of same, special reports and maps, was 9,199. Of these, 8,032 were distributed in Canada; the remainder, 1,167, were sent to foreign countries as exchanges to scientific and literary institutions, and to individuals engaged in scientific pursuits.

Every year the list of our exchanges is increasing, so that, as a consequence of this, the operations of the Survey are being more widely known and its publications more sought after.

There have been received during the year 2,367 publications, including books, transactions, memoirs, periodicals, pamphlets and maps. In addition to these, 51 books were purchased and 38 periodicals were subscribed for, on geological, mineralogical and natural history subjects. For a considerable time past the space allotted to the Library has been found to be altogether insufficient, and, consequently, many of the books, which are frequently required for reference, have had to be stored away in other parts of the building, to the great inconvenience of those wishing to consult them.

The number of books bound during the year has been 162.

There were sent out during 1889, by the Librarian, 1,511 letters, and 1,256 were received by him, thus showing the large and increasing interest taken in the work of the Survey.

The number of volumes in the Library is now about 8,000, and of pamphlets 3,000.

The sales of the Survey publications during the year, to 31st December, have amounted to \$2,909.57.

#### VISITORS.

The number of visitors to the Museum during the year, from 1st January to the 31st December, was 18,300, being an increase of 886, as compared with the previous year.

#### STAFF, APPROPRIATION, EXPENDITURE AND CORRESPONDENCE.

The strength of the staff at present employed is 47, viz., professional 32, ordinary 15.

During the calendar year the following changes in the permanent staff have taken place:—

Mr. Eugene Coste, Mining Engineer, resigned.  
 Mr. Jno. McMillan, Field Explorer “  
 Mr. F. D. Adams, Assistant Chemist “  
 Mr. M. O'Farrell, Caretaker, superannuated.  
 Mr. E. D. Ingall, appointed Mining Engineer.  
 Mr. Thos. Burke “ Caretaker.  
 Mr. Allan McKinnon “ Messenger.  
 Mr. R. G. McConnell, promoted from 2nd to the 1st class.  
 Mr. E. R. Faribault “ 3rd to the 2nd class.

The amount available for the fiscal year ended the 30th June, 1889, was:—

	\$	cts.	\$	cts.
Civil list appropriation.....			45,900	00
General purpose appropriation.....			60,055	91
The expenditure may be summarized under the divisions named as follows:—				
Civil list salaries.....	43,319	56		
Wages of temporary employes.....	15,396	17		
Exploration and survey.....	24,095	11		
Printing and lithography.....	12,585	13		
Purchase of specimens.....		67 75		
Purchase and binding of books and purchase of instruments.....	1,437	69		
Laboratory apparatus and chemicals.....		514 47		
Stationery and mapping materials, and Queen's Printer... ..	1,087	33		
Incidental and other expenses.....	2,104	75		
	100,607	96		
LESS—Paid in 1888.....		3,259 42		
	97,348	54		
ADD—Advances to field explorers.....		6,026 93		
	103,375	47		
Unexpended balance, Civil list appropriation.....		2,580 44		
	105,955	91	105,955	91

The correspondence of the branch shows a total of 7,100 letters sent and 5,860 received.

In my summary report for 1887, page 14, a report to be prepared by Mr. Warren Upham, of the United States Geological Survey, on the Glacial Lake Agassiz, was mentioned.

The report and accompanying maps were received only on the 19th of December, too late to be incorporated in the last Annual Report. I am now in correspondence with Mr. Upham respecting it, and I hope it will soon be ready for the printer.

I have the honor to be, Sir,

Your obedient servant,

ALFRED R. C. SELWYN,

*Director.*

---

PART IV.

---

NORTH-WEST TERRITORIES.

---





---

PART IV.

---

---

REPORT CONCERNING THE ADMINISTRATION OF THE NORTH-WEST TERRITORIES FOR THE YEAR 1889.

---

GOVERNMENT HOUSE,  
REGINA, 7th January, 1890.

To the Honorable  
The Minister of the Interior,  
Ottawa.

SIR,—I have the honor to submit the following report concerning the administration of the North-West Territories for the year 1889.

I am happy to be able to report favorably upon the general prosperity of the country.

The harvest of the year has not yielded quite as abundant a return as in 1888; the farmer has had to contend with difficulties of an exceptional character; but upon the whole it may be said that the crop has been satisfactory.

In the ranching districts the year has been most favorable, and shipments of cattle to the markets of the East and Europe have proved remunerative and encouraging.

The immigration during the season has not been as large as we had hoped for, but the country may well be congratulated upon the class of settlers who are coming from eastern Canada and the European continent to plant their homes in the North-West.

The unprecedented drought which has prevailed this year all over the Territories has caused prairie and forest fires to be more extensive and disastrous than ever. The Ordinance in this respect has proved beneficial, and many parties guilty of criminal carelessness have been brought to justice. I cannot here too strongly express my acknowledgement of the services rendered to the settlers by the North-West Mounted Police in their zealous and active endeavors to enforce the provisions of the Ordinance.

Peace, order and contentment seem to reign supreme at the present day in these vast possessions; criminal offences are few in number, and the laws are everywhere cheerfully obeyed.

The visit of His Excellency the Governor General of Canada to our Territories has afforded the people a happy opportunity of assuring the representative of Her Majesty of their strong sense of loyalty to the British Crown and their deep attachment to the laws and free institutions of Canada. The Governor General's journey across this vast extent of country will, I am sure, convince him of its unbounded resources, while the cordiality with which he has been welcomed everywhere will certainly result in permanently securing for Canada one more illustrious and devoted friend.

I am happy to state that the two most important items of public expenditure, that of schools and public works, have been applied with the most satisfactory results.

I can again report an increase in the number of school districts established during the year. Owing to the liberal policy of the Dominion Parliament, in providing for the education of the youth of the Territories, there are to-day in existence 164 schools, attended by 4,574 children, and taught by a staff of 183 properly qualified

teachers. The increase in 1888, over the preceding year, was 20 schools, 240 children; the increase in 1889 is 33 schools, 1,121 children.

The provisions of the Ordinance for the establishment of a higher grade of schools have been put into force, and Union schools are now in operation at Regina and Calgary.

Further details in reference to schools and the general state of education in the Territories will be found in the Report of the Board of Education, a copy of which I forward herewith.

On the 5th November 1889, I selected as an Advisory Council, under the provisions of Sec. 13, Chap. 19, Vic. 51, in lieu of previous Council resigned, the following gentlemen, viz.:—

Robert George Brett, Esquire, Member for Red Deer.

John Felton Betts, Esquire, Member for Prince Albert.

David Finlay Jelly, Esquire, Member for North Regina.

Benjamin Parkyn Richardson, Esquire, Member for Wolseley.

Subsequently, on the 16th November following, I accepted the resignation of this latter Council, and their successors are now in course of being selected.

#### SESSION OF ASSEMBLY.

The second Session of the first Legislative Assembly opened on the 16th day of October and closed on the 22nd day of November, 1889.

#### LEGISLATION.

The following Ordinances were passed during the above Session, namely:—

*Schedule of Ordinances passed by the Legislative Assembly of the North West Territories during the Session of 1889.*

No. 1. An Ordinance to amend the Ordinance respecting Insane Persons.

No. 2. An Ordinance to amend "The Poisons Ordinance."

No. 3. An Ordinance to amend Ordinance No. 5 of 1888, intituled "The North West Territories Medical Ordinance, 1888."

No. 4. An Ordinance to amend "The Agricultural Societies Ordinance."

No. 5. An Ordinance to amend "The Mechanics' Lien Ordinance."

No. 6. An Ordinance to amend "The Ordinance respecting Auctioneers, Hawkers and Pedlars."

No. 7. An Ordinance to amend Ordinance No. 6 of 1888, intituled "An Ordinance respecting the registration of Births, Marriages and Deaths."

No. 8. An Ordinance concerning Receipt Notes, Hire Receipts and Orders for Chattels.

No. 9. An Ordinance to regulate the practice of Dentistry in the North-West Territories.

No. 10. An Ordinance respecting the Expropriation of Lands.

No. 11. An Ordinance to amend "The Game Ordinance."

No. 12. An Ordinance to amend "The Unincorporated Towns Ordinance."

No. 13. An Ordinance to provide for the incorporation of Butter and Cheese Manufacturing Associations.

No. 14. An Ordinance respecting Justices of the Peace.

No. 15. An Ordinance to amend "The Herd Ordinance."

No. 16. An Ordinance respecting the Personal Property of Married Women.

No. 17. An Ordinance respecting Hides.

No. 18. An Ordinance respecting Mortgages and Sales of Personal Property.

No. 19. An Ordinance to amend "The Municipal Ordinance."

No. 20. An Ordinance to amend "The School Ordinance."

No. 21. An Ordinance to amend "The Brand Ordinance."

No. 22. An Ordinance to amend "The Brand Ordinance."

No. 23. An Ordinance to incorporate "The Calgary Water Power Company, Limited."

No. 24. An Ordinance to amend "The Interpretation Ordinance."

No. 25. An Ordinance to amend Chapter 41 of the Revised Ordinances of the North-West Territories, respecting the Legal Profession.

No. 26. An Ordinance to amend Ordinance No. 25 of 1889.

No. 27. An Ordinance to incorporate "The Medicine Hat General Hospital."

No. 28. An Ordinance to amend Ordinance 25 of 1887, intituled "An Ordinance to incorporate the Municipality of the Town of Moosomin."

No. 29. An Ordinance to legalize By-law No. 41 of the Municipality of Indian Head.

No. 30. An Ordinance to legalize a certain Debenture of the School District of Kenlis Protestant Public School District.

No. 31. An Ordinance to empower certain Boards of School Trustees to compromise for the payment of arrears of taxes.

#### APPOINTMENTS.

The following is a list of the Territorial appointments made since the Lieutenant Governor's last Report.

#### *Justices of the Peace.*

Name.	Address.
Thomas Cope.....	Alameda, Assiniboia.
Dennis Quigley.....	Sintaluta do
Samuel William Shaw.....	Midnapore, Alberta.
William Cox Allen.....	Fort Macleod, Alberta.
Zachary Taylor Wood.....	Inspector, N. W. Mounted Police.
Albert Huot.....	do do
Hugh Matheson Bannerman.....	Edmonton, Alberta.
John R. McPhail.....	Prince Albert, Saskatchewan.
Wm. Cameron Bellemont Grahame....	Winnipeg, Manitoba.
Francis David Wilson.....	Victoria, Alberta.
Henry William Pollock.....	Whitewood, Assiniboia.
William McBeth.....	Prince Albert, Saskatchewan.
Joseph Knowles.....	do do
John Stewart.....	do do
Robert Wyld.....	Battleford do
Alexander Roderick Chisholm.....	Bresaylor Settlement, Saskatchewan.
George McCrum.....	Cumberland House do
Eucher Arcand.....	Battleford, Saskatchewan.
Angus McKay.....	Fort Pitt, Alberta.
Simeon Morin.....	Battleford, Saskatchewan.
Louis D'Eschambeault.....	Prince Albert do
Charles Shillingford.....	Fleming, Assiniboia.
Charles Michel Daunais.....	Battleford, Saskatchewan.
Anthony Thomas MacLellan.....	Katepwe, Assiniboia.
John Clarence Richards.....	Kinbrae do
Thomas Gilman.....	Moosomin do
Joseph Courtney.....	Island Lake, Saskatchewan.
Hugh Hassard.....	Alameda, Assiniboia.
Peter McLellan.....	Arcola do
Samuel McGurk.....	Carlyle do
Thomas Montgomery.....	Alameda do
John Young.....	Antler do
George John Gagen.....	Moose Jaw P.O., Assiniboia.
Thomas Bawden.....	Broadview, Assiniboia.

Name.	Address.
Adam McBeath.....	Prince Albert, Saskatchewan.
James Nichol Cowan .....	Montgomery, Assinibioia.
Hubert Pelham-Clinton.....	Swift Current do
Joseph Victor Begin.....	Inspector, N. W. Mounted Police.
Julius Vass.....	Esterhaz, Assinibioia.
Samuel Chipperfield.....	Chickney do
Alexis O. F. Dégagné.....	Edmonton, Alberta.
Thomas Scott Rutherford.....	Balgonie, Assinibioia.
John Cameron .....	Edmonton, Alberta.
Daniel Maloney.....	St. Albert do
Edward Fitzgerald.....	Grenfell, Assinibioia.
Thomas Breers.....	Kinbrae do
Daniel William Riedle.....	Langenburg do
William Brough Heath.....	Dunmore do
William Moran.....	Moosomin do
William Walter McDonald.....	Fleming do
William McCorkell.....	do do
Septimus Marshall Smith..	Moosomin, Assinibioia.
Richard James Phin.....	do do
Jean-Baptiste Payette.....	Green Lake, Saskatchewan.
Hugh James Alexander Davidson....	Inspector N. W. Mounted Police.
John Cardell.....	Bantry, Alberta.
Reginald Beatty.....	Kinistino, Saskatchewan.
Robert Hamilton.....	Saskatoon do
John Creagh.....	Bantry, Alberta.
James Leslie.....	Saskatoon, Saskatchewan.
Herbert Frank Boyce.....	Abernethy, Assinibioia.
David J. Cantelon.....	Lorlie do
John Warden McIntosh.....	Moose Jaw, do
Henry Dorrell.....	do do
William Edward Bayley.....	Balgonie do
Thomas O. Davis.....	Prince Albert, Saskatchewan.
William Carter Sanders .....	Buffalo Lake, Assinibioia.
William Creighton Matchett.....	Balgonie do
John Charles McKenzie.....	Kinistino, Saskatchewan.

*Notaries Public.*

William Alfred Galliher.....	Lethbridge, Alberta.
Thomas Hart.....	The Pas Reserve, Saskatchewan.
George Forbes Guernsey .....	Fort Qu'Appelle, Assinibioia.
Thomas Christopher West .....	Calgary, Alberta.
Joseph Allison Fraser.....	Battleford, Saskatchewan.
Benjamin Parkyn Richardson.....	Grenfell, Assinibioia.
John James Heaslip.....	Alameda do
Frederick G. Fauquier.....	Maple Creek, Assinibioia.
John Dixon.....	do do
Frederick James Boswell.....	Banff, Alberta.
Harry Bird.....	Cannington Manor, Assinibioia.
David Venne.....	Batoche, Saskatchewan.
George Henry Gibson.....	Battleford do
William John Pozer .....	Duck Lake do
Julius Vass.....	Esterhaz, Assinibioia.
Thomas Gainsford Rothwell.....	Ottawa, Ontario.
Sidney Stockton Taylor.....	Edmonton, Alberta.

*Commissioners for taking Affidavits.*

Name.	Address.
James George Ross.....	Montreal, P. Q.
John Greenfield.....	London, England.
Richard John Wicksteed.....	Ottawa, Ontario.
William Alexander Caldwell.....	Montreal, P. Q.
David Hepburn Russell.....	London, England.
James Hume Dodgson.....	do do
Thomas William Bischoff.....	do do
Philip Henry Coxe.....	do do
George Cox Bompas.....	do do

*Coroners.*

Arthur Edwin Shelton.....	Calgary, Alberta.
Ernest Carter.....	Broadview, Assiniboia.

*Issuers of Marriage Licenses.*

A. A. Davidson.....	Calgary, Alberta.
John T. Stenshorn.....	Regina, Assiniboia.
Robert C. McPherson.....	Perley do
John C. Richards.....	Kinbrae do
George Lawley.....	Carnduff do
Richard B. C. O'Donoghue.....	Banff, Alberta.
Harry Bird.....	Cannington Manor, Assiniboia.
William Leigh Bernard.....	Calgary, Alberta.
George Edward Jacques.....	do do
Robert Harkness Henderson.....	Winlaw, Assiniboia.
Thomas Jennette Pearson.....	Whitewood, Assiniboia.

*Fire Guardians.*

John Coates.....	Perley, Assiniboia.
Inspector Constantine.....	North-West Mounted Police.
do Drayner.....	do do
Staff-Sergt. Fyffe.....	do do
do Richards.....	do do
do McGinnis.....	do do
do Waddell.....	do do
Sergeant Cochrane.....	do do
do Brymner.....	do do
do Colebrook.....	do do
do Straton.....	do do
do Pollock.....	do do
Staff-Sergt. Diamond.....	do do
do W. J. Hall.....	do do
Sergeant Mountain.....	do do
do Bidwell.....	do do
do Marshall.....	do do
do Blake.....	do do
do Hilliard.....	do do
do Roby.....	do do
do Macfarland.....	do do
do Rohrig.....	do do
do Garnham.....	do do
do Murison.....	do do

Name.	Address.
Sergeant Bruce.....	North-West Mounted Police.
Corporal Wright.....	do do
do Work.....	do do
do Bunt.....	do do
do Sparrow.....	do do
do Armer.....	do do
do Bossange.....	do do
do Shleacow.....	do do
do McLellan.....	do do
do Shepherd.....	do do
Constable J. A. Smith.....	do do
do Kirkman.....	do do
do Sellon.....	do do
do Pearson.....	do do
do O'Gorman.....	do do
Inspector White-Fraser.....	do do
do Matthews.....	do do
do Starnes.....	do do
do Macpherson.....	do do
Sergeant Manely.....	do do
Corporal Horne.....	do do
do Friars.....	do do
do Purchas.....	do do
do Bierd.....	do do
do Baker.....	do do
do Skinner.....	do do
do Martin.....	do do
do Weeks.....	do do
do Birtles.....	do do
do Sexton.....	do do
Constable Ashe.....	do do
do Barham.....	do do
do Green.....	do do
do Blight.....	do do
do Rushton.....	do do
do Lynch.....	do do
do Watson.....	do do
do Panet.....	do do
do Vaudrieul.....	do do
Staff-Sergt. White.....	do do
do Ross.....	do do
Sergeant Macdonnell.....	do do
Corporal Turnbull.....	do do
do Campbell.....	do do
do Elliott.....	do do
Constable Alfrey.....	do do
do Patrick.....	do do
do Tabor.....	do do
Sergt.-Major Spicer.....	do do
do Stewart.....	do do
do Hetherington.....	do do
Staff-Sergt. Fane.....	do do
do Bradley.....	do do
Sergeant Allen.....	do do
do Barker.....	do do
do Brook.....	do do

Name.	Address.
Sergeant Monjean .....	North-West Mounted Police.
do Hayne .....	do do
Corporal Clarke .....	do do
do Hammond .....	do do
do Healey .....	do do
do Cunningham .....	do do
do McDonnell .....	do do
George Ness.....	Pincher Creek, Alberta.

*Game Guardians.*

Leveret George DeVeber.....	Macleod, Alberta.
Andrew Christie.....	Pincher Creek, Alberta.
John Smith.....	Belly River do
Edward Neale Barker.....	Lee's Creek do
Frederick W. Atkinson.....	North Fork of Waterton River.

*Veterinary Surgeon.*

Charles Henry Sweetapple.....	Sergeant, N. W. Mounted Police.
-------------------------------	---------------------------------

*Registrar General.*

Appointed under the Ordinance for the Registration of Births, Deaths and Marriages.—The Clerk of the Legislative Assembly.

*Division Registrars.*

Oliver Neff.....	Moosomin, Assiniboia.
William Walley.....	Saltcoats do
Robert Patterson.....	Broadview do
Harry Bird.....	Cannington Manor, Assiniboia.
Samuel V. Bray.....	Wolseley, do
William Syme Redpath.....	Qu'Appelle Station do
George Forbes Guernsey.....	Fort Qu'Appelle do
Thomas Brown.....	Regina do
Reginald James Steele.....	do do
Hugh Macdougall.....	Moose Jaw do
William Cousins.....	Medicine Hat do
Alfred F. Grady.....	Macleod, Alberta.
William Leigh Bernard.....	Calgary do
Richard B. C. O'Donoghue.....	Banff do
Hugh Richardson, jr.....	Battleford, Saskatchewan.
Joseph M. Coombs.....	Prince Albert do
Charles Adams.....	Askana do
William John Poser.....	Duck Lake do
Colin F. Strang.....	Edmonton, Alberta.

*Medical Practitioners Registered.*

Ernest Harold Scott.....	Moosomin, Assiniboia.
George Allan Kennedy.....	Macleod, Alberta.
Allan Marshall Lafferty.....	Lethbridge, do
Charles Selby Haultain.....	Asst. Surgeon, N. W. Mounted Police.



*Advocates Enrolled.*

Name.	Address.
William Alfred Galliher.....	Lethbridge Alberta.
Sidney Stockton Taylor.....	Calgary do
Thomas Christopher West.....	do do
James Albert Manning Aikens.....	Winnipeg, Manitoba.
Lawrence King.....	Moose Jaw, Assiniboia.
Isaac Campbell.....	Winnipeg, Manitoba.
Nicholas Dominic Beck.....	Calgary, Alberta.
Edmund Cave.....	do do
James Stewart Tupper.....	Winnipeg, Manitoba.
Nathaniel Francis Hagel.....	do do
Hector Mansfield Howell.....	do do
Charles Patrick Wilson.....	do do
William Redford Mulock.....	do do
John Skirving Ewart.....	do do
Patrick James Nolan.....	Calgary, Alberta.
William Henry Culver.....	Winnipeg, Manitoba.
Albert Elswood Richards.....	do do

*Dentist registered.*

Frederick Davis Shaw.....Macleod, Alberta.

I append hereto a Return, as required by Section 93 of "The North-West Territories Act," of all liquor Permits issued by me during the year 1889.

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

J. ROYAL,  
*Lieutenant-Governor of the North-West Territories.*

RETURN of Special Permissions for the Importation of Intoxicating Liquors into the North-West Territories during the Year 1889,  
as required by 49 Victoria, Chapter 50, Section 93.

PERMITS.	QUANTITY IN GALLONS OF EACH IN- TOXICANT IN EACH PERMIT.							TOTAL QUANTITIES.							REMARKS.		
	Whiskey.	Brandy.	Wine.	Gin.	Rum.	Alcohol.	Beer.	Porter.	Whiskey.	Brandy.	Wine.	Gin.	Rum.	Alcohol.		Beer.	Porter.
6	4								8								
17	1								17								
2,937	2								5,874								
24	24								60								
32	3								96								
213	4								852								
1	44								45								
272	5								1,360								
7	6								42								
4	7								28								
3	8								24								
3	9								9								
37	10								370								
3	15								45								
3	21								63								
5	2	1							10	5							
1	1	1	8						1		8						
54	2		2	2					108		108	4					
2	2								4	5				5			
1	10	5							10						10		
1	2								2								
1	1		1						1		1						
1	1								4		4	2					
27	2	2	4	2					2	2							
10	2	2							54	54							
8	3	2	2						20	20	16						
1	2	1		1					1			1					
2	10	10	10						20	20	20						
5	4		2						10		10						
4	3		1						12		4						
	4		1						12		3						

RETURN of Special Permissions for the Importation of Intoxicating Liquors into the North-West Territories, &c.—Continued.

[illegible]



14 RETURN of Special Permissions for the Importation of Intoxicating Liquors into the North-West Territories, &c.—Continued.

PERMITS.	QUANTITY IN GALLONS OF EACH IN-TOXICANT IN EACH PERMIT.							TOTAL QUANTITIES.							REMARKS.		
	Whiskey.	Brandy.	Wine.	Gin.	Rum.	Alcohol.	Beer.	Porter.	Whiskey.	Brandy.	Wine.	Gin.	Rum.	Alcohol.		Beer.	Porter.
5			9								30						Banff Sanitarium Company.
2			8								16						
1			9								9						
1			10								50						
1			12								12						
1			20								60						
1			32								32						
1			1	1							3	3					
7			1	2							14	14					
1			1		1						1		1				
1			9								5			5			
1			1								13						
2			1								32						
13			2								23						
16			2								12						
1			4								10						
3			5								88						
2			8								9						
11			9								110						
1			11								12						
10			12								16						
1			16								22						
1			22								33						
1			33									213					
71				3								204					
102				2									198				
99					2								3				
3				1									5				
2				23									6				
2				3									8				
2				4										2			
2														80			
40														12			
4																	

[illegible]

RECAPITULATION.

Spirits—	
Whiskey.....	9,485½
Brandy.....	1,080
Gin.....	454½
Rum.....	224½
Alcohol.....	416
Total.....	11,660½
Wine.....	1,422
Beer.....	25,527
Porter.....	571
Beer imported for sale, limited, 4 per cent. alcohol.....	112,448½
Total.....	151,629

Liquors sold on dining cars of Canadian Pacific Railway under permit for wine and beer, dated 30th July, 1886, from the 25th January to 25th December, 1889: Wine, 164½ galls.; beer, 2,607 galls.

---



---

REPORT OF THE BOARD OF EDUCATION FOR THE NORTH-WEST TERRITORIES, FROM THE 13TH SEPTEMBER, 1888, TO 17TH SEPTEMBER, 1889.

REGINA, 17th September, 1889.

To the Honorable JOSEPH ROYAL, LL.D.,  
Lieutenant-Governor of the North-West Territories.

SIR,—The Board of Education has the honor to submit the following report of its proceedings for the past year:

Meetings of the Board were held on the 11th December, 12th, 13th and 14th March, 16th July and 17th September.

The Rev. A. B. Baird, B.D., having resigned his seat as a member of the Board on account of his having gone to reside in Manitoba, the Rev. S. J. Taylor, B.A., of Moose Jaw, was appointed Member in his stead.

The Rev. John McLean, Ph.D., was appointed a Member of the Board of Examiners, *vice* Rev. Mr. Baird, resigned.

The Inspectors of Schools, under the control of the Protestant Section of the Board, are the same as last year. For schools under the control of the Roman Catholic Section, the Rev. J. M. Lestanc has been appointed Inspector for the Edmonton District, *vice* the Rev. H. Grandin, resigned; and the Rev. D. Gratton has been appointed Inspector of Schools in Western Assiniboia.

#### UNION SCHOOLS.

In order that the provisions of the Revised School Ordinance, with respect to Union Schools, might be carried out, the Board, at its meeting in March, adopted the following regulations with reference to Entrance Examinations and the course of study to be used in such schools.

#### *Instructions to Inspectors having Union Schools and to the Principals of such Schools.*

The Board of Education, in putting forth the regulations relating to Union Schools, desire it to be understood that these regulations are tentative and provisional, the idea being to bring such schools into operation as soon as possible. When they exist and the Board has had an opportunity of forming an opinion about them, it will revise all the regulations relating to the course of study in all its schools, as well as the regulations relating to the attainments of its teachers.

With regard to the Normal Sessions, the Board feels that it must, at this stage of things, rely very greatly upon the judgment and good sense of Inspectors and Principals to make such arrangements as will result in the carrying on of a complex system with the utmost advantage to all the pupils concerned.

Students whose literary attainments do not extend beyond the subjects of examination for 3rd class teachers, should be encouraged to take as much of the work required in Standard VI., prescribed for Protestant Schools, or in the Superior Course, prescribed for Roman Catholic Schools, as possible, having regard to the time required to be given to professional subjects, and to what may be required of them in order to gain a knowledge of practical teaching. Such students should, from time to time, take classes in the junior departments of the school, and then only under the direction of the Principal or the teacher of the department.

Students studying the subjects assigned either for first or second class teachers, may take classes in all departments of the school, at the discretion of the Principal.

JAS. BROWN,  
Secretary Board of Education.

Adopted 14th March, 1889,  
Department of Education,  
Regina, N.W.T.



*Provisional Regulations with respect to Union Schools, adopted 14th March, 1889.*

1. The head teacher of every High School Branch of a Union School shall be styled the Principal of such school.

2. The Principal shall be a graduate of some University in Her Majesty's Dominion, or have attainments which, in the opinion of the Board of Education, are equivalent thereto, and must also be able to satisfy the Board as to his knowledge and ability to conduct such a school, and to train teachers according to the most approved methods of teaching.

3. The maximum salary for the Principal of any Union School shall not exceed eighteen hundred dollars per annum.

4. The following books and apparatus shall be provided for each Union School by the Trustees:

An Encyclopædia—Britannica, Chambers' or International;

An Unabridged Dictionary—Webster, Worcester or Imperial;

A Gazetteer—Lippincott;

A Biographical Dictionary—Lippincott;

English History—Green and Knight's History of the English People, or Lingard;

General History—E. A. Freeman, Merivale's "General History of Rome from the Foundation of the City to the Fall of Augustulus;"

Natural Science—Deschanel; Fowne's and Roscoe's Chemistry; Gray's New Manual of Botany; Physiological Charts (White's);

English Literature—Chambers' Encyclopædia of English Literature;

Spalding or Taine;

Minto's Manual of Prose Literature;

Characteristics of English Poets—Minto;

Shakespeare's Life, Art and Characters—Hudson;

Dowden's Art of Shakespeare;

Rolfe's Shakespeare;

Victorian Poets—Stedman;

Classics—Andrew's Lexicon (Lat.-Eng.); Liddell and Scott's Lexicon (Greek-Eng.), (larger editions); Smith's Classical Dictionary; Butler's Classical Atlas and Sketch of Ancient Geography;

Geography—Ritter; Guyot's Earth and Man; Guyot's Physical Geography; Guyot's Common School Geography; King's Aims and Methods in Geography;

Maps—Classical Maps of Italia, Græcia, Asia Minor and Gallia.

The necessary apparatus for teaching Botany, Chemistry and Physics.

---

ENTRANCE EXAMINATION.

5. (1.) The regular entrance examination for pupils for the High School Branch shall be in writing, and shall be held half-yearly before the close of each term.

(2.) There shall be papers set on reading, spelling, composition, writing, arithmetic, grammar, geography, history and elementary English literature, book-keeping (single entry), as prescribed in Standard V of the programme of studies for Protestant schools, and in the "superior course" in the programme of studies for Roman Catholic schools.

(3.) The papers shall be prepared and examined, and the examination shall be conducted by the Inspector for the district and the Head Teacher or Principal of the school. When the examination is over and the results have been declared, the papers, together with the marks obtained, shall be sent to the Secretary of the Board of Education to be filed.

(4.) In order to pass the examination a candidate must obtain twenty-five per cent. of the marks attached to each of the subjects of examination, and forty per cent. of the total number of marks.

(5.) Pupils who come into the district after the regular examination has been held, and who are thought to be qualified for admission, may be placed by the Principal in the High School until the ensuing entrance examination, when they shall be required to pass such examination.

(6.) The following shall be the course of studies in the High School Branch of Union Schools:—

(a) For Protestant Schools:

#### STANDARD VI.

Reading—Sixth Reader with recitations.

Spelling—From reading lessons and dictation.

Composition—Further extension of the subject from Standard V.

Writing—The subject continued.

Arithmetic—The whole of Kirkland & Scott's Arithmetic.

Grammar—A thorough knowledge of Mason's Outlines of English Grammar.

Geography—Map Geography generally, with Canada and the British Empire more particularly; map drawing.

History—A review of English and Canadian History; Canadian Literature.

Book-keeping—Single and Double entry.

Drawing—Reading's High School Course commenced.

Calisthenics and Drill—The subject continued.

Algebra—To the end of simple equations.

Geometry—Euclid, Definitions and Book I.

Latin—Smith's *Principia Latina*, Part I., or Harkness' Introductory Latin Book.

French—Fasquelle's *Lessons in French*.

(b) For Roman Catholic Schools:

Review of Intermediate Course.

Superior Course commenced and continued.

Geography—General; Canada and the British Empire more particularly; map drawing.

Canadian Literature—Withrow and Adam.

Calisthenics and Drill—Continued.

French—Fasquelle's *Lessons in French*.

Latin—Smith's *Principia Latina* Part I., or Harkness' Introductory Latin Book.

#### NORMAL SESSIONS IN UNION SCHOOLS.

1. Every Union School shall have, if required by the Board of Education, a Normal School Department, which shall hold one session each year. Every such session of the Normal School shall open on the first Monday in November and close on the last Friday in March following.

2. The course of instruction during such session shall include:—The History, Science and Art of Education; Methodology; School Organization and Management; School Hygiene; School Law; Drill and Calisthenics and Practical Teaching.

(a.) Text books prescribed for the use of teachers.

(1.) For 1st class teachers:

Sully's hand-book *Psychology*; Bain's *Education as a Science*; Compayrè's *History of Pedagogy*; McCosh's "The Motive Powers;" Fitch's *Lectures on Teaching*; Landon's *School Management*; the *School Law of the Territories*; Hughes' *Drill and Calisthenics*.

(2.) For 2nd class teachers:

White's *Elements of Pedagogy*; Quick's *Educational Reformers*; Janet's *Elements of Morals*; Fitch's *Lectures on Teaching*; Baldwin's *Art of School Management*; the *School Law of the Territories*; Hughes' *Drill and Calisthenics*.

(3.) For 3rd class teachers:

Baldwin's *Art of School Management*; Browning's *Educational Theories*; Fitch's *Lectures on Teaching*; Janet's *Elements of Morals*; the *School Law of the Territories*; Hughes' *Drill and Calisthenics*.

3. All students in attendance at any Normal Session, shall provide themselves with such books as they are required to use.

4. Such persons as desire to attend the Normal Session of any Union School shall notify the Secretary of the Board of Education of their intention not later than the 15th day of September in each year; and shall state:

- (a) Age last birthday.
- (b) Class of certificate held, (if any).
- (c) If holding no certificate, the subjects they desire to study.
- (d) The name of the Union School they desire to attend.

Each such notification shall be accompanied by a certificate of good moral character.

5. All persons, who have passed the non-professional examinations for first, second or third class teachers' certificates, shall be eligible for admission to the Normal Session of any Union School. All other candidates for admission shall be received only by the special sanction of the Board of Education, upon their presenting satisfactory evidence of good moral character and literary attainments.

6. Students admitted to any Normal Session shall be required to present themselves at the opening of the Session, to be punctual and regular in their attendance, and to perform faithfully the duties assigned them.

7. Any student, whose conduct or deportment during any Session is reported by the Principal as not satisfactory, shall be reported to the Board of Education, and his name shall be taken off the roll, or his case otherwise dealt with, as the Board may determine.

8. All students who, at the close of each session, have passed a written examination in the subjects included in the course of instruction, and whose aptitude in teaching is found satisfactory, shall be entitled to a diploma, signed by the Inspector and Principal, certifying the same, and such diploma shall entitle the student receiving it to have the non-professional certificate he then holds exchanged for a professional certificate of the same class and grade; and any student not in possession of a non-professional certificate, who obtains such diploma, shall be entitled to teach until the ensuing August examination, upon passing which, he shall be entitled to receive such professional certificate as is provided for under said regulations.

9. Any student, whose aptitude in teaching is reported, at the close of a Normal School Session, to be superior, shall be entitled to receive a professional certificate of Grade "A" of the class he then holds or has held within one year of the date of such session, or if he holds no non-professional certificate, he shall be entitled to a professional certificate of the highest grade in the class in which he may pass within one year thereafter, subject to the regulations governing the issue of professional certificates.

10. No person who has once obtained a third-class professional certificate shall be entitled to another professional certificate of the same grade, upon his passing the non-professional examination, without a second attendance at the Normal School, unless certified as an efficient teacher by his Inspector.

11. Any student attending a Normal School Session shall have the right to attend such classes, in Standard VI, in the programme of studies of the Protestant section, or the superior course of the Roman Catholic section, as he may desire, but, having once come to a decision, he shall not withdraw from any class without the consent of the Principal.

12. The examinations at the close of a Normal Session in any Union School shall be conducted by the Inspector for the district and the Principal of the school, and when the examination is over and the results have been declared, the papers, together with the marks obtained, shall be sent to the Secretary of the Board of Education to be filed.

*Adopted 14th March, 1889.*

## ENTRANCE EXAMINATION.

In accordance with the foregoing regulations examinations were held, with results as follows :—

School.	No. of Candidates.	No. who Passed.
Regina .....	18	18
Moose Jaw .....	7	7
Medicine Hat .....	5	5
Lethbridge .....	15	15
Calgary .....	28	24
Prince Albert .....	22	16
Lacombe (Cath. sep.) .....	15	15

From the above statement it will appear that Moose Jaw and Medicine Hat are not yet in a position to open Union Schools.

At Lethbridge, two teachers only being employed, the school does not fulfil the requirements of the Ordinance.

At Prince Albert 16 of the candidates were pupils of the Nesbit Academy, a private institution, and were therefore ineligible.

Since the summer vacation Union Schools have been opened at Regina and Calgary, and the reports from them are encouraging. We understand a Union School will be opened in Lacombe district during the present term.

## TEACHER'S EXAMINATION.

The annual examination of candidates for teachers' certificates began on the 6th and closed on the 10th August last. In order to meet the convenience of the candidates, examinations were held at the following places in the Territories, viz. :—

Moosomin, where 34 candidates were present.

Saltcoats " 14 " "

Carnduff " 4 " "

Fort Qu'Appelle, where 3 candidates were present.

Regina, where 40 candidates were present.

Prince Albert, where 15 candidates were present.

Saskatoon, where 3 candidates were present.

Lethbridge " 2 " "

Calgary " 9 " "

Edmonton " 4 " "

In all 128 candidates presented themselves for examination, 8 for first-class certificates, 23 for second-class, and 97 for third-class. The result of the examination was as follows : 7 candidates passed for first class certificates, 19 for second-class, and 69 for third-class.

The following is a list of the successful candidates, namely :—

*First Class.—Grade B.*

James Balfour, Sister Delphine Bouquet, Sister Philomena Crotty, L. Bruce Latimer, Sister M. Agnes Ollivier, William Short, Allen D. Tracy.

*Second Class.—Grade A.*

Herbert H. Skinner.

*Second Class.—Grade B.*

William Adams, Sister Theresa Ambrose, Emma Mary Andrews, Carrie Bray, Frankie G. Brown, Edgar Albert Chappell, Isabella A. Coulson, Sister Faustine Cornish, James A. Hamilton, Mary K. Hunter, George H. Hutton, James W. Jones, Mrs. M. O. McCready, John McLean, John W. McPhail, Willa Simpson, Herbert A. Solly, Jean P. M. Piquet.

*Third Class.*

Clara Adair, Mary Alexander, David Archibald, Aggie M. Balfour, Thomas Bear, Addie Bird, George P. Bray, Charles F. Brears, Maggie Broley, Joseph N. Brunet, Louisa Burton, Lizzie Cameron, Lisle Carr, Samuel R. Carrothers, Hugo E. Carstens, Louie G. Chappell, Sarah A. Cox, Jennie Cullum, Carrie Davies, George R. Davies, Harry F. Dennehy, Carnaby W. Ferry, Ebon T. Ferry, Catherine E. Geddes, Kate J. Gillespie, Frances Gilroy, May Givin, Donald H. Grant, Hulda E. Graves, Victor L. Greenwood, Florence Glover, Sadie Hastings, Frances Mary Hayward, Annie Henderson, Edith Revilo Higgins, Annie Hodnett, Edward Hopkins, James Hulme, Gudney Jones, Thomas E. Jones, Joseph Lapointe, Charles H. Lawford, Kate Lawford, Mary Lucas, Mary McCallum, Minnie McCallum, Duncan A. McDonnell, Tillie McIntosh, Sarah McMillan, Kate Middlemiss, David Miller, Joseph Morton, Lena May Neville, Samuel Spencer Page, Philomene Parenteau, Herbert J. Rex, Christopher J. Rosborough, John R. Sangster, Helen A. Shaw, Wm. James Skafte, Louisa Smith, Wm. Stiff, Charles Ibeson Sweet, J. Donaldson Tait, Eliza Tate, Agnes Thompson, Martha Thompson, Clara White, Minnie Wismer.

## UNIVERSITY LAND GRANT.

At the meeting held on the 14th March the following resolution was unanimously adopted:—

“Whereas several years ago the Government of Canada gave a grant of 150,000 acres of land to endow a University for the Province of Manitoba:

“And whereas such land was not selected at the time, and now, owing to the settled state of the country, great difficulty is experienced in obtaining suitable lands available for the purpose:

“And whereas the very rapid growth of educational matters in the Territories leads to the belief that, in a very few years, it will be necessary, in order to complete our educational system, to establish a University:

“And whereas each of the three Provisional Districts of the Territories is of larger area than Manitoba, and each is therefore entitled to a grant for University purposes at least as large as that given to said Province:

“And whereas the Board feels that it is most desirable that such a grant should be obtained as soon as possible, and that the land should be selected and set apart for University purposes before much more settlement takes place, and while large quantities of land are available for selection:

“Therefore the Board of Education would respectfully request His Honor the Lieutenant Governor in Council to make representations to the Dominion Government, as soon as convenient, with a view to obtaining, at an early date, a grant of land for University purposes for each of the Provisional Districts of Assiniboia, Alberta and Saskatchewan.”

The above resolution was endorsed by His Honor the Lieutenant Governor in Council, in the following minute passed 2nd May, 1889:—

“*Resolved*,—That this Council strongly endorses the resolution of the Board of Education passed on the 14th March, 1889, with reference to a grant of land for University purposes in the Territories, and that the same, together with a copy of this resolution, be forwarded to the Secretary of State of Canada, for the consideration of the Governor General in Council.”

Subsequently the following reply was received from His Excellency the Governor General in Council:—

“Certified copy of a report of a Committee of the Honorable the Privy Council, approved by His Excellency the Governor General in Council on the 26th June, 1889.

“The Committee of the Privy Council have had under consideration a despatch dated 20th May, 1889, from the Lieutenant Governor of the North-West Territories, transmitting a copy of a resolution passed by the Board of Education of the Terri-

tories in reference to obtaining a grant of land for University purposes in the Territories.

"The Minister of the Interior, to whom the question was referred, states that the consideration of this question at the present stage in the history of the North-West is, in his opinion, premature, and that not until the country has been divided and erected into separate Provinces can a question of this nature be finally and advantageously dealt with.

"The Committee recommend that the Secretary of State be authorized to forward a copy of this minute to the Lieutenant Governor of the North-West Territories.

"All which is respectfully submitted for your Excellency's approval."

The Board at its meeting in July passed the following resolution:—

"This Board having had laid before it a copy of a report of a Committee of the Honorable the Privy Council, approved by His Excellency the Governor General in Council on the 26th June, 1889, in respect to a resolution passed by this Board in reference to obtaining a grant of land for University purposes in the Territories, and in which the Committee report 'that the consideration of this question at the present stage in the history of the North-West is premature, and that not until the country has been divided and erected into separate Provinces can a question of this nature be finally and advantageously dealt with.'

"While this Board recognizes the difficulties at present in the way of making grants of land for University purposes, as requested by the minute of this Board, passed on the 14th March last, yet this Board would respectfully suggest the advisability of, by minute of Council or in some other way, selecting and setting apart lands for University purposes in the Provisional Districts of Assiniboia, Alberta and Saskatchewan, so that the same may be available to be granted when the country is divided and erected into into separate Provinces; otherwise, when that time arrives, no lands may be available for that purpose, or the lands available may be of comparatively little value:

"And resolved, that a copy of this minute be furnished to His Honor the Lieutenant Governor in Council, for transmission for the consideration of His Excellency the Governor General in Council."

#### SECRETARY'S SALARY.

In June, 1888, the Board adopted a resolution respectfully recommending that the salary of the Secretary of the Board be increased from \$1,500 to \$1,800 per annum.

No action having been taken upon this resolution, the following resolution was unanimously adopted at the meeting of the Board held on the 14th March last.

"The Board of Education has heard with regret that His Honor the Lieutenant Governor in Council has not acceded to the wish of the Board in reference to an increase of salary for its Secretary, as expressed in a resolution of the Board which was unanimously adopted at a meeting held in June last:

"The Board, in venturing to bring the matter again before His Honor the Lieutenant-Governor in Council, desire very respectfully to submit that the Secretary's duties are increasing almost daily; that the present salary bears no adequate proportion to their extent and importance; while, at the same time, the manner in which these duties are performed leaves nothing to be desired:

"For these reasons the Board earnestly hopes that the question will be reconsidered, so that the salary may be increased to \$1,800 per annum, and that such increase date from the 1st of July last (1888)."

#### NUMBER OF SCHOOLS IN OPERATION.

The following table shows the number of schools in the different inspectorates in operation during the last quarter of the current year, as contrasted with those in

operation during the corresponding quarter of last year, from which it will appear that the increase of schools, under the control of the Protestant section of the Board, is as follows :—

Increase in number of schools.....	25
do do teachers employed.....	28
do do pupils.....	801

And in schools under the control of the Roman Catholic section of the Board :—

Increase in number of schools.....	8
do do teachers employed.....	5
do do pupils.....	320

Making a total increase of 33 schools, 33 teachers, and 1,121 pupils during the year.

SCHOOLS IN THE VARIOUS INSPECTORATES.

Inspectorates.	1889.			1888.			
	Schools Open.	Teach- ers Em- ployed.	Pupils.	Schools Open.	Teach- ers Em- ployed.	Pupils.	
UNDER PROTESTANT SECTION.							
East Assiniboia.....	52	54	1,123	38	40	727	
West Assiniboia.....	41	46	1,153	38	42	1,050	
Prince Albert District.....	17	19	520	13	14	361	
Calgary do.....	12	15	410	9	11	345	
Macleod do.....	3	4	147	3	4	122	
Edmonton do.....	6	7	183	5	6	154	
Battleford do.....	2	2	69	2	2	45	
	133	147	3,605	108	119	2,804	
	108	119	2,804				
Increase in 1889.....	25	28	801				
UNDER CATHOLIC SECTION.							
Edmonton District.....	6	9	248	5	8	165	
Calgary do.....	1	3	113	1	3	70	
Macleod do.....	3	3	74	1	1	13	
Battleford do.....	1	1	57	1	2	48	
Prince Albert District.....	13	13	321	8	10	220	
Assiniboia East.....	5	5	115	7	7	113	
Assiniboia West.....	2	2	41				
	31	36	969	23	31	649	
	23	31	649				
Increase in 1889.....	8	5	320				
Showing a total increase in 1889 of.....	33 Schools.	33 T'chers.	1,121 Pupils.				

## NEW SCHOOL DISTRICTS.

During the year 37 new school districts have been erected and proclaimed in various parts of the Territories, as per following list:—

## SCHOOL DISTRICTS UNDER CONTROL OF PROTESTANT SECTION.

No.	District.	Secretary.	P. O. Address.
137	Mistawasis .....	Edward Johnstone.....	Snake Plain <i>via</i> Carlton, Saskatchewan.
138	Esterhaz.....	Rev. T. A. Teitelbaum.....	Esterhaz, Assa.
139	Swea .....	C. O. Hofstrand .....	Ohlin do
140	Saltcoats .....	Thos. McNutt.....	Saltcoats do
141	Auburn .....	Thos. Cope .....	Alameda do
142	Cochrane .....	James Johnson.....	Cochrane, Alta.
143	Winlaw .....	R. H. Henderson.....	Winlaw, Assa.
144	High River.....	Isaac Potter .....	High River <i>via</i> Calgary, Alta.
145	Rose Dale.....	G. C. Lewis .....	Fairmede, Assa.
146	Workman .....	Allan McDougald.....	Elmore do
147	Stanley .....	W. J. Dimmick.....	Moosomin do
148	Elmore .....	John Ormond.....	Elmore do
149	Duck's Point.....	Jno. W. Large.....	Grenfell do
150	Grenfell .....	M. Freeman .....	do do
151	Grahame.....	Wm. Cross .....	Saltcoats do
152	Riverdale .....	C. H. H. Parker.....	Kinbrae do
153	Spring Lake.....	Glasgow Winter .....	Broadview do
154	Inglesfield .....	Kenneth Corbett.....	Fleming do
155	Maryfield.....	Wm. Stableford.....	"Dene Grange," Lippentott, Man.
156	Marlborough.....	Jno. D. Fraser.....	Marlborough <i>via</i> Moose Jaw, Assa.
157	Ebenezer .....	Hugo Carstens.....	Yorkton, Assa.
158	Cotham .....	Ernest Jno. Bissick.....	Broadview do
159	Yorkton .....	W. P. Hopkins.....	Yorkton do
160	Cannington Manor.....	S. Spencer Page.....	Cannington Manor, Assa.
161	Sunny South.....	E. W. Stewart.....	Qu'Appelle Station do
162	Moose Mountain.....	Jas. F. Hindmarch.....	Cannington Manor do
163	Pelly .....	Murdoch McDonald.....	Fort Pelly, Assa.

## SCHOOL DISTRICTS UNDER CONTROL OF THE CATHOLIC SECTION—PUBLIC SCHOOLS.

23	Sitkala.....	Joseph Lapointe.....	Willow Bunch, Assa.
24	Fourmond .....	Rev. J. V. Fourmond.....	Grandin, Sask.
25	Belanger.....	Elie Vaud .....	St. Laurent, Sask.
26	St. Thomas Duhamel.....	Leon E. Paré.....	Holbrook, Alta.
27	St. Jean Baptiste.....	Rev. V. Pineau .....	Stobart, Sask.

## SEPARATE SCHOOLS.

7	St. Joachim.....	Antoine Prince .....	Edmonton, Alta.
8	Holy Cross .....	C. F. Gigot.....	Macleod do
9	Lethbridge .....	Christopher McRae.....	Lethbridge do
10	St. Alexander.....	Rev. Geo. Montreuil.....	Qu'Appelle Station, Assa.
11	St. Patrick.....	Julia Stack.....	Prince Albert, Sask.

## STATISTICAL TABLES.

The statistical tables prepared by the Secretary and appended to this report furnish interesting and important details of the working of our educational system in the various school districts of the Territories.

These tables are as follows:—

Statistics of school for summer term, 1888.....	Appendix I
do do winter term, 1888–89.....	do II
do do quarter ended 30th June, 1889..	do III
Expenditure of school funds from 1st July, 1887, to 30th June, 1889.....	do IV

We have the honor to be, Sir,

Your obedient servants,

CYPRIAN, SASKATCHEWAN AND CALGARY,

*Chairman, Board of Education.*

JAS. BROWN,

*Secretary, Board of Education.*



APPENDIX No. 1—Report on Schools for Summer Term ended 31st October, 1888.

No.	District.	Teacher.	Teacher's Certificate.	School Closed for Term.	No. of Days School Open.	No. of Pupils on Register.	No. Present Day of In- struction.	Average Daily Attend- ance.	Inspector's Report.	Grant on Teacher's Certificates.				No. of Pupils Present 90 Days.	Capitation Grant at \$2 per capita.		Rate of Grant on Inspec- tor's Report.	Grant on Inspector's Report.	Total.
										Quarter end- ing July 30, 1888.	Quarter end- ing Sept. 30, 1888.	Month end- ing Oct. 31, 1888.	\$		c.	\$			
1	Moose Jaw	Miss Ida McMillan	2nd	Oct. 31 111½	52			34 Good		75 00	91 66	45 83	18	36 00	1 50	27 00	380 24		
2	do	Miss Lena Simpson	3rd	do 31 111	59			28 Very Fair		62 50			13	26 00	1 25	16 25	446 25		
3	Prince Albert	D. S. McCannel	2nd	do 31 122	98		23	53 Very Good		150 00	150 00	50 00	27	54 00	1 75	42 25	489 50		
4	do	J. F. A. Stull	1st	do 31 117	41			25 Excellent		87 50	150 00	50 00	19	76 00	2 00	76 00			
5	do	Miss R. McGregor	3rd	do 31 117	44			27 do		50 00			8	16 00	1 75	14 00			
6	Regina	N. F. McKay	1st	do 31 112½	62		30	26 Very Good		87 50			19	38 00	1 25	23 75	243 33		
7	do	Miss C. Barnes	2nd	do 31 112	73		32	33 Very Fair		75 00	225 00	75 00	18	36 00	1 25	22 50	680 00		
8	do	Miss I. A. Kerr	3rd	do 31 112½	85		29	43 Good		62 50			19	38 00	1 50	28 50	242 64		
9	Broadview	Mrs. J. McNiece	1st	do 31 120	38		30	21 Very Good		87 50	87 50	26 39	11	22 00	1 75	19 25	169 50		
10	Kenil	Hannah C. Mooney	2nd	do 31 104	24		15	16 Very Fair		75 00	50 00	25 00	6	12 00	1 25	7 50	424 58		
11	Edmonton	James Martin	1st	do 31 129	40		26	25 Excellent		87 50	137 50	45 83	23	46 00	2 00	46 00	243 33		
12	do	Wm. Stiff	Pro	do 31 129	82		31	30 Very Fair		62 50	62 50	20 83	25	52 00	1 75	45 50	205 00		
13	St. Andrew's	Wm. Gerrond	3rd	do 31 130	59		22	33 Very Good		75 00	75 00	25 00	8	16 00	1 75	14 00	300 16		
14	do	Cicely Jackson	2nd	do 31 122	42			29 Excellent		87 50	87 50	29 16	24	48 00	2 00	48 00	208 75		
15	do	W. E. Bartlett	1st	do 31 123	46		20	20 Very Good		75 00	75 00	25 00	9	18 00	1 75	15 75	721 75		
16	Prince Albert East	Wm. Logan	2nd	do 31 132	44		24	28 Very Good		87 50	225 00	75 00	18	100 00	2 00	34 00	252 91		
17	Wapella	Jno. K. McInnis	1st	do 30 127	44		23	22 Excellent		62 50	62 50	20 83	13	26 00	1 75	22 75	163 33		
18	do	Kate E. Ross	2nd	do 31 127	54		34	28 Very Fair		62 50	62 50	20 83	5	10 00	1 50	7 50	171 83		
19	do	Eliza J. Guthrie	3rd	do 31 127	79		42	43 Very Fair		62 50	62 50	20 83	8	16 00	1 25	6 25	141 25		
20	Saskatoon	James Leslie	1st	do 31 127	48		10	20 Very Good		62 50	62 50	20 83	10	20 00	1 25	12 50	165 83		
21	Little Pipestone	J. W. McPhail	3rd	do 31 130	24		8	6 Very Fair		62 50	62 50	20 83	19	100 00	1 50	100 00	725 00		
22	Montgomery	Finlay Kennedy	3rd	do 31 131	13		3	12 do		50 00	62 50	20 83	7	14 00	1 50	10 50	170 83		
23	St. John	S. A. Hall	3rd	do 31 145	16			16 Good		62 50	62 50	20 83	10	20 00	1 25	5 00	131 66		
24	Red Deer Hill	R. W. Boylan	3rd	do 31 122	16			12 do		50 00	62 50	20 83	19	100 00	1 50	100 00	725 00		
25	St. Catharines	Miriam Wilson	3rd	do 31 128	26		46	37 do		62 50	62 50	20 83	7	14 00	1 50	10 50	170 83		
26	Calgary	Joseph Boag	1st	do 31 117	46		53	10 Fair		87 50			18	36 00	2 00	36 00	247 00		
27	do	Miss J. S. McIntyre	2nd	do 31 117	59		104	19 Excellent		75 00	225 00	75 00	32	36 00	2 00	36 00			
28	do	Miss S. Cowan	3rd	do 31 117	101		12	12 Good		62 50	62 50	20 83	7	14 00	1 50	10 50			
29	Park	J. C. Callin	3rd	do 31 119	23		8	9 Very Fair		62 50	62 50	20 83	6	12 00	1 25	7 50			
30	Eden Grove	Mrs. M. O. McCreedy	3rd	do 31 123	21		18	10 Fair		62 50	62 50	20 83	7	14 00	1 50	10 50			
31	Rocanville	Miss J. Campbell	3rd	Oct. 31 107	18		6	19 Excellent		75 00	75 00	25 00	18	36 00	2 00	36 00			
32	Belmont	Jas. B. Steele	2nd	do 31 124	29		18												

24 Sturgeon	Not open.	Oct. 31	127	36	24	23	Excellent.	75 00	75 00	25 00	20	40 00	2 00	40 00	255 00
25 Walseley	J. F. Middlemiss	2nd	do 31	120	30	6	11	Very Fair.	75 00	75 00	25 00	5	10 00	6 25	131 25
26 Fort Qu'Appelle	Ernest W. Miller	2nd	do 31	120	26	10	15	Fair.	62 50	62 50	20 83	10	16 00	10 00	175 83
27 Ravine Bank	Janie A. Wallace.	3rd	do 31	126	23	6	11	Very Fair.	75 00	62 50	25 00	8	20 00	10 00	201 00
28 Maple Green	E. S. Bond.	2nd	Nov. 1	126	26	10	15	Fair.	75 00	62 50	25 00	8	16 00	10 00	175 83
29 Wascana	Miss Annie Purdy	3rd	Sept. 6	94	9	5	6	Fair.	42 00	62 50	25 00	4	8 00	4 00	116 50
30 Round Plan	G. M. Atkinson.	1st	Oct. 31	124	20	14	14	Good.	87 50	87 50	29 17	13	25 00	19 50	249 67
31 Poplar Grove	Not open.														
32 Thistle	Not open.														
33 Summerberry	Wm. Moore	2nd	Oct. 31	134	20	3	8	Very Fair.	75 00	75 00	25 00	6	12 00	7 50	194 50
34 Summerhill	A. T. Fotheringham.	2nd	do 31	136	37	13	23	Very Good.	75 00	75 00	25 00	25	50 00	43 75	268 75
35 Westfield	Wm. H. Thompson	3rd	do 31	132	16	11	11	Fair.	50 00	62 50	25 00	9	18 00	9 00	139 50
36 Greenville	M. McLean.	3rd	do 31	131	9	8	6	Very Fair.	62 50	62 50	20 83	6	12 00	7 50	165 33
37 Abbottsford	Miss F. Graham	3rd	do 31	108	20	13	13	do	32 50	62 50	20 83	2	18 00	11 25	148 08
38 Sunnymead	C. McRae	1st	do 11	101	18	7	8	Good.	43 75	62 50	29 16	4	8 00	6 00	174 41
39 Mount Pleasant	Miss E. Falls	3rd	do 31	121	22	13	16	Fair.	87 50	87 50	29 16	1	2 00	1 00	123 83
40 Bonnycastle	E. A. Partridge.	1st	do 31	125	31	16	16	Very Good.	87 50	87 50	29 16	15	30 00	26 25	260 41
41 Lindsay	H. Rodger	2nd	do 31	121	54	25	25	Good.	75 00	75 00	25 00	9	18 00	13 50	206 50
42 Kinstino	W. M. O. Thompson.	1st	Sept. 14	84	15	12	12	Good.	43 75	73 00	20 83	7	14 00	10 50	170 33
43 Hillburn	Jno. Young	3rd	Oct. 31	125	25	9	13	Very Fair.	62 50	62 50	20 83	2	4 00	2 50	131 83
44 Island Lake	Sarah Thompson	3rd	do 31	113	13	6	8	Fair.	62 50	62 50	20 83	5	10 00	5 00	140 00
45 Flensing	E. A. Chappell.	3rd	Nov. 9	139	17	6	8	Fair.	62 50	62 50	20 83	12	24 00	15 00	184 83
46 Fairfield	Maggie Patterson.	3rd	Oct. 31	137	26	15	16	Very Fair.	62 50	62 50	20 83	1	2 00	1 50	145 83
47 MacLeod	Mary E. Parker.	3rd	do 31	137	15	6	8	Very Fair.	62 50	70 00	25 00	1	2 00	1 25	160 75
48 Pheasant Forks	Walter Willis.	2nd	do 31	106	16	6	8	Very Fair.	75 00	75 00	25 00	17	34 00	21 25	230 25
49 Indian Head	Laura E. Park.	2nd	do 31	113½	42	23	27	do	75 00	75 00	25 00	17	34 00	34 00	404 33
50 Springbrook	Not open.														
51 Lethbridge	L. B. Latimer	2nd	Oct. 31	12	44	23	18	Excellent.	75 00	137 00	45 83	17	34 00	2 00	38 00
52 Caron	Miss M. Duff.	3rd	do 31	121	79	51	33	do	62 50	62 50	20 83	19	38 00	38 00	404 33
53 Faulkner	Disorganized.	3rd	Oct. 31	119	9	7	7	Fair.	62 50	62 50	20 83	6	12 00	6 00	163 83
54 Wideawake	Miss M. Fotheringham	2nd	do 31	115	14	8	8	Very Fair.	60 00	75 00	25 00	5	10 00	6 25	176 25
55 Meadow Lea	Belle J. Ross	3rd	do 25	136	12	2	7	do	50 00	62 50	25 00	7	14 00	8 75	135 25
56 Lansdowne	Mary Lucas	3rd	do 31	120	8	8	7	do	42 00	62 50	25 00	7	14 00	8 75	137 25
57 Whitehead	Mrs. W. Cunningham.	2nd	do 31	126	52	15	20	do	42 00	75 00	25 00	11	22 00	13 75	210 75
58 Ivy	M. Fletcher.	2nd	do 31	126	52	15	20	do	75 00	75 00	25 00	11	22 00	13 75	210 75
59 Spring Coulee	Mrs. J. L. Salkeld.	2nd	Sept. 21	92	13	9	9	Good.	62 50	75 00	25 00	8	16 00	12 00	137 50
60 Buffalo Head	H. O. Partridge.	2nd	Oct. 31	126	14	7	9	Good.	75 00	75 00	25 00	8	16 00	12 00	203 00
61 McLean	Not open.														
62 McLean	M. Westaway.	3rd	Oct. 31	87	17	7	7	Fair.	50 00	25 00	20 83	12	24 00	18 00	95 83
63 Pasqua	A. B. Stewart	2nd	do 31	135	18	12	12	Good.	75 00	75 00	20 83	12	24 00	18 00	192 00
64 Borge Creek	Not open.														
65 Prospect	Miss M. Cullum	3rd	Sept. 28	96	10	5	6	Fair.	42 00	62 50	25 00	2	4 00	2 00	110 50
66 Tregarva	Miss A. McPhail	Pro	Oct. 26	110	16	4	7	do	33 33	50 00	16 66	1	2 00	1 00	102 99
67 Victoria Plains	Miss E. A. F. Boulding	3rd	do 30	89	11	4	6	do	22 00	62 50	20 83	3	6 00	3 00	84 50
68 Lake View	S. Reed	Pro	do 30	113	19	6	7	Very Fair.	62 50	62 50	20 83	3	6 00	3 00	154 83
69 Dalesboro'	Not open.														
70 Golden Plains	A. Deyell.	3rd	Oct. 31	130	16	10	11	Fair.	50 00	58 35	20 83	8	16 00	8 00	153 18
71 Battiford	Not open.														
72 Red Fox Valley	Thos. Beath.	2nd	Oct. 30	120	28	13	13	Very Good.	75 00	75 00	25 00	7	14 00	12 50	201 25
	Ida J. Niblock.	3rd	do 30	135	16	13	13	Fair.	62 50	62 50	20 83	12	24 00	12 00	181 83

Report on Schools for Summer Term ended 31st October, 1888—Continued.

No.	District.	Teacher.	Teacher's Certificate.	School Closed for Term.	No. of Days School Open.	No. of Pupils on Register.	No. Present Day of Inspection.	Average Daily Attendance.	Inspector's Report.	Grant on Teacher's Certificate.				Capitation Grant at \$2 per capita.	Rate of Grant on Inspector's Report.	Grant on Inspector's Report.	Total.
										Quarter ending July 30, 1888.	Quarter ending Sept. 30, 1888.	Month ending Oct. 31, 1888.	No. of Pupils Present 90 Days.				
73	Kinbrae	M. B. P. Richards	3rd	do 30.	127	12	3	6	Unsatisfactory	50 00	62 50	20 83	6	12 00			145 33
74	Derry Grove	Disorganized.															
75	Victoria	P. Erasmus	Pro	May 6	16	19		11									
76	Medicine Hat	Jno. Drimmon	2nd	Oct. 31	126	113	63	61	Very Good	75 00	75 00	25 00	46	92 00	1 75	80 50	347 50
77	Weed Hills	Not open.															
78	Boscuvius	Annie Scott.	3rd	Oct. 31	135	17	13	11	Good	62 50	62 50	20 83	10	20 00	1 50	15 00	180 83
79	Glenbeg	Maggie B. McArthur	2nd	do 31.	126	11	11	8	Very Good	75 00	75 00	25 00	7	14 00	1 75	12 25	201 25
80	Maple Creek	N. L. Holmes	1st	do 31.	122	36	16	19	Fair	87 50	87 50	29 16	13	26 00	1 00	13 00	243 16
81	Carnduff	Charlotte V. Wilson	3rd	do 10.	126	15	7	9	Good	52 50	62 50	10 42	8	16 00	1 50	12 00	133 42
82	Welwyn	Mary Wallace	2nd	do 31.	132	22	11	12	Very Good	75 00	75 00	25 00	8	16 00	1 75	14 00	205 00
83	Clare	Maggie Hislop	Pro	do 31.	120	17	18	12	Very Fair	34 00	50 00	16 66	9	18 00	1 25	11 25	129 91
84	Pine Creek	Miss F. M. Goodridge	2nd	do 31.	124	17	9	6	Very Good	75 00	75 00	25 00	7	14 00	1 75	12 25	201 25
85	Midnapore	Helen A. Shaw	Pro	do 31.	125	15	6	6	Fair	50 00	50 00	16 66	4	8 00	1 00	4 00	128 66
86	Wellington	Jas. Balfour	2nd	do 31.	133	12	7	7	Good	62 50	70 00	25 00	6	12 00	1 50	9 50	178 50
87	Balcarres	C. E. Cumming	2nd	do 31.	123	16	8	8	do	75 00	75 00	30 00	5	10 00	1 50	7 50	197 50
88	Orangeville	J. A. MacDonald	3rd	do 31.	76	12	5	5	Fair	62 50	62 50	20 83			1 00		145 83
89	Two Rivers	Miss A. R. Tegart	3rd	do 10.	90	17	9	9	do	62 50	62 50	20 83	5	10 00	0 75	3 75	128 75
90	Forest Farm	Chas. McDonald	3rd	do 17.	120	15	5	8	do	52 50	62 50	20 83	8	16 00	1 50	12 00	173 83
91	Fort Saskatchewan	Mrs. M. Inglis	3rd	do 31.	124	26	16	12	Good	62 50	62 50	20 83			1 25		100 00
92	Strassburg	J. B. E. Wernecke	2nd	do 31.	83	14	9	8	Very Fair	75 00	75 00	25 00	2	4 00	1 25	2 50	138 00
93	Pleasant Valley	Maggie Buchanan	2nd	do 31.	116	17	6	8	do	56 50	75 00		9		0 75		181 00
94	Glen Adelaide	A. C. H. Shaffer	3rd	Nov. 10	140	13	9	8	Fair	62 50	62 50	31 25		18 00			
95	Saint Leonard	Not open.															
96	Alameda	Robt. Young	Pro	Oct. 31	107	18	14	13	Very Fair	18 25	60 00	16 66	10	20 00	1 25	12 50	117 41
97	Orkney	Ellie C. Carrson	Pro	do 31.	134	24	13	11	Fair	50 00	50 00	16 66	8	16 00	1 00	8 00	140 66
98	East Edmonton		Pro	do 31.	134	12	12	6	Good	50 00	50 00						50 00
99	Saskatchewan	Mary K. Hunter	3rd	do 31.	129	9	11	11	Very Fair	62 50	62 50	20 83	8	16 00	1 25	10 00	171 83
100	Springbank	Lottie J. Cowan	3rd	do 31.	118	19	11	11	do	26 50	62 50		9	18 00	1 25	11 25	118 25
101	New Tulsa	B. Banton	3rd	do 31.	137	15	10	10	do	50 00	50 00		9	18 00	1 25	11 25	129 25
102	National Park	N. Gilmore	2nd	do 30.	123	53	21	23	Very Good	75 00	75 00	25 00	13	26 00	1 75	22 75	223 75
103	Gleichen	Jno. T. Kennedy	1st	do 30.	115	23	17	16	Good	87 50	75 00	25 00	13	26 00	1 50	19 50	233 00
104	Red Deer Central	G. W. Smith	1st	do 31.	131	12	9	8	Very Good	87 50	87 50	29 16	6	12 00	1 75	10 50	226 66

105 Langenburg	Not open.	Pro	do	22	110	24	14	Very Fair.	25 00	50 00	16 66	4	8 00	1 25	5 00	104 66
106 Wolloughby	J. W. Williams.	3rd	do	22	124	14	14	Unsatisfactory	62 50	62 00	.....	.....	.....	.....	.....	124 50
107 Devon Park	J. C. Richards	3rd	do	22	124	14	14	Unsatisfactory	62 50	62 00	.....	.....	.....	.....	.....	97 25
108 Thingvalla	Not open.	3rd	Aug. 17	90½	47	18	16	23 Good	62 50	31 25	8 33	1	2 00	1 50	8 00	132 33
109 Anthracite	A. C. Sturrett.	Pro	Oct. 12	122	16	16	16	10 Fair	50 00	50 00	20 83	8	16 00	1 00	8 00	114 58
110 Crescent	Maggie Eakin.	3rd	Jly. 31	74½	42	42	42	23 Good	62 50	31 25	20 83	.....	.....	.....	.....	146 00
111 Bressaylor	Mrs. K. G. Clink.	3rd	Oct. 31	135	14	6	6	8 Very Fair	62 50	62 50	23 16	7	14 00	1 00	7 00	193 75
112 Siltou.	Miss Willa Simpson.	1st	do	31	105	28	15	16 Very Good	58 34	87 50	23 16	5	10 00	1 75	8 75	54 16
113 Pioneer	Helen Choate.	Pro	Sep. 28	62	11	11	11	9 Fair	4 16	50 00	.....	.....	.....	.....	.....	255 00
114 Glenmore	Edith R. Higgins.	2nd	Oct. 31	127	32	24	24	19 Excellent	75 00	75 00	25 00	20	40 00	2 00	40 00	140 33
115 Orangedale	F. G. Marwood	3rd	do	31	102	13	8	9 Fair	42 50	62 50	20 83	5	10 00	1 00	5 00	149 25
116 Katapwe	E. Scott.	2nd	do	24	91	6	6	7 Very Fair	31 25	75 00	25 00	6	12 00	1 00	6 00	153 33
117 Hope	Not open.	3rd	do	31	102	13	8	9 Fair	42 50	62 50	20 83	5	10 00	1 00	5 00	38 33
118 Castletown	Chas. E. Stewart	2nd	do	24	91	6	6	7 Very Fair	31 25	75 00	25 00	6	12 00	1 00	6 00	43 16
119 Buffalo Lake	Not open.	3rd	do	31	123	15	15	11 Very Good	40 00	62 50	20 83	8	16 00	1 75	14 00	66 66
120 New Stockholm	A. E. Cox	Pro	Sep. 26	88	10	10	10	3 Unsatisfactory	17 50	20 83	.....	.....	.....	.....	.....	66 66
121 Pincher Creek	Thos. R. Preston	3rd	Oct. 31	34	24	15	15	12 Fair	26 50	16 66	.....	.....	.....	.....	.....	50 00
122 Maple Grove	D. McPherson	Pro	do	31	55	17	17	11 do	50 00	16 66	.....	.....	.....	.....	.....	66 10
123 Grampian Hills	Miss R. Oliver	Pro	do	31	55	17	17	11 do	50 00	16 66	.....	.....	.....	.....	.....	.....
124 Churchbridge	Not open.	Pro	do	31	60	49	6	34 Very Fair	50 00	16 66	.....	.....	.....	.....	.....	.....
125 South View	Thos. Bear.	Pro	do	31	60	49	6	6 Fair	50 00	16 66	.....	.....	.....	.....	.....	.....
126 Pahonan	Alice M. Barker	Pro	do	31	77	15	15	6 Fair	33 34	16 66	.....	.....	.....	.....	.....	.....
127 Florence	Not open.	Pro	do	31	65	16	16	15 Very Fair	41 10	25 00	.....	.....	.....	.....	.....	.....
128 Red Deer Lake	do	2nd	do	31	56	22	17	17 do	.....	.....	.....	.....	.....	.....	.....	.....
129 Brookside	Elizabeth Dunlop.	Pro	do	31	65	16	16	15 Very Fair	33 34	16 66	.....	.....	.....	.....	.....	.....
130 MacDowall	Miss A. Smith	2nd	do	31	56	22	17	17 do	41 10	25 00	.....	.....	.....	.....	.....	.....
131 Herchner	Miss A. Smith	2nd	do	31	56	22	17	17 do	41 10	25 00	.....	.....	.....	.....	.....	.....
132 Traford	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	91 66
133 Arrolne	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
134 Fairmede	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
135 McKay	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
136 Cut Arms.	Miss M. Finlayson	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
137 Mistawasis	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
138 Esterhaz.	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
139 Swea	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....
140 Saltcoats	Not open.	Pro	Sep. 28	65	15	15	15	14	41 66	50 00	.....	.....	.....	.....	.....	.....

SUMMER Term ended 31st October, 1888.

No.	District.	Teacher.	Teacher's Certificate.	School Closed for Term.	No. of Days School Open.	No. of Pupils on Register.	No. Present Day of Inspection.	Average Daily Attendance.	Inspector's Report.	Grant on Teacher's Certificate.				No. of Pupils Present 90 days.	Capitation Grant at \$2 per capita.		Rate of Grant on Inspector's Report.	Grant on Inspector's Report.	Total.
										Quarter ending June 30, 1888.	Quarter ending Sept. 30, 1888.	Month ending Oct. 31, 1888.	\$		\$	\$			
<i>Public.</i>																			
1	St. Antoine	Rev. J. Moulin	1st	Oct. 30	116	30		12	Very Good	87 50	87 50	29 16	3	6 00	1 75	5 25	215 41		
2	Saskatchewan	L. O. Lamoureux	3rd	do 31	121	20		10	Excellent	50 00	62 50	20 83	7	14 00	2 00	14 00	161 33		
3	St. Albert	Rev. Sr. Dillon, 2 Assts	1st	do 31	125	95		61	do	187 50	212 50	75 00	42	84 00	2 00	84 00	643 00		
4	St. Leon	Hy. Blanc	3rd	Sept. 26	99	21		13	do	50 00	50 00		5				100 00		
5	Cunningham	Rev. J. T. Quevillon	1st	Oct. 31	119	54		39	Excellent	137 50	137 50	45 83	33	66 00	2 00	66 00	452 83		
6	Bellerose	Alfred Arcand	Pro	do 31	120	26		13	Very Good	50 00	50 00	25 00	7	14 00	1 75	12 25	151 25		
7	St. François Xavier	Not open																	
8	Stobart	Rev. Z. Touze	1st	Nov. 1	135	30		14	Excellent	87 50	62 50	20 83	8	16 00	2 00	16 00	202 83		
9	St. Laurent	O. Peltier	3rd	Oct. 26	130	21		13	Very Good	87 50	62 50	41 06	1	2 00	1 75	1 75	195 41		
10	Lourdes	Octave Regnier	2nd	do 31	116	13		8	do	62 50	75 00	25 00	4	8 00	1 75	7 00	177 50		
11	St. V. of Battleford	O. Dorval, 1 Asst.	1st	do 31	114	78	35	37	do	150 00	87 50	29 16	23	46 00	1 75	40 25	352 91		
12	Lebret	A. de Larond	1st	do 31	123	71		32	do	87 50	87 50	29 16	15	30 00	1 75	26 25	260 11		
13	Taché	Disorganized																	
14	St. L. de Langevin	L. L. S. de la Croix	3rd	Oct. 31	123	40		34	Excellent	62 50	62 50	20 83	34	68 00	2 00	60 00	281 83		
15	St. J. de Dauphinais	J. N. Brunet	Pro	do 31	125	25		17	Very Good	50 00	60 00	16 06	15	30 00	1 75	26 25	172 91		
16	St. F. de Taché	Mrs. C. Tourond	3rd	do 31	126	26		22	do	62 50	62 50	20 83	18	36 00	1 75	31 50	203 33		
17	St. Joseph	Rev. T. P. Plamondon	1st	do 31	126	20		10	Good	87 50	87 50	29 16	9	18 00	1 50	13 50	235 66		
18	St. Agnes	Auguste Hebert	1st	do 31	109	15		12	Very Good	58 35	87 50	29 16	12	24 00	1 75	21 00	220 01		
19	New Munster	Not open																	
20	Mazenod	A. O. Garnot	3rd	Oct. 31	94	36		22	Very Good	42 50	42 50	20 83	3	6 00	1 75	5 25	71 38		
21	St. Julien											16 66					16 66		
22	St. Paul											16 66							
23	Sitkaka	Not open																	
<i>Separate.</i>																			
1	Lacombe	Rev. Sr. M. Green, 2 Assts	2nd	Oct. 31	123	101		57	Excellent	137 50	237 50	70 83	42	84 00	2 00	84 00	613 83		
2	St. Andrew	Rev. D. Gillies	1st	Nov. 1	107	16		12	do	58 34	87 50	29 16	8				175 00		
3	St. Mary	Miss A. McKinnon	3rd	Oct. 31	107	12		9	Very Good	50 00	62 50	20 83	7	14 00	1 75	12 25	159 58		
4	St. Margaret	Ronald McDonald	3rd	do 31	96	11		8	Good	46 75	62 50	20 83	4	8 00	1 50	6 00	144 08		
5	St. Peter	Lachlan McPhee	3rd	do 20	100	18		14	Very Good	32 25	62 50	20 83	9	18 00	1 75	15 75	149 33		
6	Prince Albert	Rev. Sr. F. McCormack	1st	do 31	112½	51		14	Excellent	62 50	87 50	29 16	4	8 00	2 00	8 00	195 16		
7	St. Joachim	Not open																	

Report on Schools for Winter Term ended 31st March, 1889.

No.	District.	Teacher.	Teacher's Certificate.	School Closed for Term.	No. of Days School Open.	No. of Pupils on Register.	No. Present Day of In- spection.	Average Daily Attend- ance.	Inspector's Report.	Grant on Teach- er's Certificate.		No. of Pupils Present 50 Days.	Capitation Grant at \$1.50 per capita.		Rate of Grant on Inspec- tor's Report.		Grant on Inspector's Re- port.	Total.
										Quarter end- ing Dec. 31, 1888.	Quarter end- ing March 31, 1889.		\$	cts.	\$	cts.		
1	Moose Jaw	Miss Ida McMillan	2nd	Mar. 29.	94½	61	48	43	Good	91 67	137 50	45	75 00	1 10	75 00	75 00	379 17	
2	Qu'Appelle	Miss Lena Simpson	3rd	do 29.	94½	70	35	35	do			31		0 90				
		D. S. McCannell	2nd	do 30.	94½	98	39	62	Very fair	100 00	150 00	69	75 00	1 50	75 00	75 00	400 00	
3	Prince Albert	Miss N. L. Bulyea	2nd			39	39		Excellent	100 00	150 00			1 30				
4	Regina	J. F. A. Stull	1st	Mar. 29.	94	43	34	36	Very good.	100 00	150 00	38	75 00	1 50	75 00	75 00	400 00	
		Robena McGregor	3rd	do 29.	95	38	34	27	Excellent			30						
5	Broadview	N. F. McKay	1st	do 29.	93½	174	24	32	Good	150 00	277 50	105	75 00	0 70	75 00	75 00	577 50	
		Cassie Barnes	2nd	do 29.	92½	39	35	35	Fair					1 30				
6	Kenlis	Miss J. A. Kerr	3rd	do 29.	92½	26	20	36	Very good.					1 10				
		Mark Westaway	3rd	do 29.	88	88	18	16	do	52 78	75 00	16	25 50	1 10	18 00	18 00	127 78	
7	Edmonton	Mary Wallace	2nd	do 29.	96	28	18	16	do	50 00	75 00	17	25 50	1 10	18 00	18 00	169 20	
8	St. Andrew	Hannah C. Mooney	1st	do 29.	96	84	38	55	do	91 67	137 50	62	75 00	1 30	75 00	75 00	379 17	
		Jas. Martin	2nd	do 29.	96	28	18	16	do									
9	Colleston	Wm. Stiff	Pro.	do 29.	97	42	39	31	Excellent	41 67	62 50	35	52 50	1 30	45 00	45 00	202 17	
		Wm. Gerrond	3rd	do 29.	91½	22	18	15	Unsatisfactory			17	25 50	1 50	25 50	25 50	176 00	
10	Prince Albert East	Cicely Jackson	2nd	do 29.	96	52	45	34	Very good.	58 34	87 50	40	60 00	1 50	60 00	60 00	265 84	
11	Wapella	W. E. Bartlett	1st	do 29.	96	49	27	27	do	50 00	75 00	31	46 50	1 30	40 30	40 30	211 80	
12	Moosomin	Wm. Logan	2nd	do 29.	95	54	32	32	Very good.			42	75 00		75 00	75 00	525 00	
		Jno. K. McInnis	1st	do 29.	94½	69	37	37	Excellent	150 00	225 00	36						
13	Saskatoon	Miss K. E. Ross	2nd	do 29.	94½	71	38	24	do	58 34	87 50	24	36 00	1 50	36 00	36 00	217 84	
		E. J. Guthrie	3rd	do 29.	95	38	32	9	Excellent	31 27	62 50	10	15 00	1 10	11 00	11 00	119 77	
14	Little Pipestone	Jas. Leslie	1st	do 29.	95	12			do									
15	Montgomery	J. W. McPhail	3rd	do 29.	85				Good									
16	St. John	Not open		do														
17	Red Deer Hill	do		do														
18	St. Catharines	Sarah Thompson	3rd	Mar. 29.	96	23	17	16	do	41 67	62 50	17	25 50	1 10	18 70	18 70	148 37	
19	Calgary	Jas. Short	1st	do 29.	94½	39	26	23	Good			27	75 00	1 30	75 00	75 00	600 00	
		Miss McIntyre	2nd	do 29.	94½	35	17	22	Very good.	150 00	300 00	36		1 10				
20	Park	Miss Cowan	3rd	do 29.	94½	76	13	41	do			29		1 10				
		Miss M. B. Wheeler	2nd	do 29.	94½	37	28		Good	41 67	75 00	14	21 00	1 10	15 40	15 40	153 07	
21	Eden Grove	J. C. Callen	3rd	do 29.	94	16	14	12	Good									

Report on Schools for Winter Term ended 31st March, 1889—Continued.

No.	District.	Teacher.	Teacher's Certificate.	School closed for Term.	No. of days School Open.	No. of Pupils on Registers.	No. present day of Inspection.	Average Daily Attendance.	Inspector's Report.	Grant on Teacher's Certificate.				Capitation Grant at \$1.50 per capita.	Rate of Grant on Inspector's Report.	Grant on Inspector's Report.	Total.
										Quarter ending Dec. 31, 1888.	\$	cts.	Quarter ending Mar. 31, 1889.				
22	Rocanville.	J. B. Steele.	2nd	Mar. 30.	96	34	31	23	Excellent.	50 00		75 00	26	39 00	1 50	39 00	223 00
23	Belmont.																
24	Sturgeon	R. H. McLoughry	2nd	Mar. 28.	93	36	21	23	Good	50 00		75 00	22	33 00	1 10	24 20	182 20
25	Wolesey	Ernest W. Miller	2nd	do 29.	96	38	17	16	do	50 00		75 00	13	19 50	1 10	14 30	158 80
26	Fort Qu'Appelle.																
27	Ravine Bank.	E. S. Bond	2nd	Mar. 29.	93	17	15	10	Good	50 00		75 00	10	15 00	1 10	11 00	75 00
28	Maple Green.																
29	Wascana																
30	Round Plain.	G. M. Atkinson.	1st.	Mar. 23.	40			15				51 25					51 25
31	Poplar Grove.																
32	Thistle.																
33	Summerberry																
34	Summerhill																
35	Westfield																
36	Greenville.																
37	Abbotsford																
38	Sunnymead.	C. McRae	1st.	Mar. 29.	94	21	17	12	Good	58 34		87 50	14	21 00	1 10	15 40	182 24
39	Mount Pleasant.	Miss E. Fallis	3rd	do 29.	93	17	12	18	Very fair	41 67		62 50	10	15 00	0 90	9 00	128 17
40	Bonnycastle	E. A. Partridge.	1st.	do 29.	92	25	48	13	Very good.	58 34		87 50	11	16 50	1 30	14 30	176 64
41	Lindsay.	H. Rodger	2nd	do 29.	93	30	23	22	Good	50 00		75 00	25	37 50	1 10	27 50	190 00
42	Kimistino																
43	Hillburn.	C. E. Cumming	2nd	Mar. 29.	83½	23	15	13	Fair	35 42		66 66	11	16 50	0 70	7 70	126 28
44	Island Lake.																
45	Fleming																
46	Fairfield	W. R. Tynms	2nd	Mar. 23.	82	21	15	15	Very fair	37 50		75 00	16	24 00	0 90	14 40	150 90
47	Macleod	Mary E. Parker	3rd	do 29.	93	30	18	18	Very good.	41 67		62 50	19	28 50	1 30	24 70	157 37
48	Pheasant Forks.	Walter Willis.	2nd	do 29.	82	14	11	9	do			75 00	8	12 00	1 30	10 40	97 40
49	Indian Head.	Laura E. Park.	2nd	do 29.	94½	45	26	28	Good	50 00		75 00	30	45 00	1 10	33 00	203 00
50	Springbrook.																
51	Lethbridge	L. B. Latimer	2nd	Mar. 23.	95	47	89	33	Excellent.	91 67		137 50	37	75 00		75 00	379 17
52	Leithbridge	Miss M. Duff	3rd	do 29.	95	63		36	do				38				
53	Faulkner																
54	Wideawake																





REPORT on Schools for Winter Term ended 31st March, 1889—Continued.

No.	District.	Teacher.	Teachers' Certificates.	School closed for Term.	No. of days School Open.	No. of Pupils on Register.	No. present days of Inspection.	Average Daily Attendance.	Inspector's Report.	Grant on Teacher's Certificate.		No. of Pupils present 50 days.	Capitation Grant at \$1.50 per capita.	Rate of Grant on Inspector's Report.	Grant on Inspector's Report.	Total.
										Quarter ending Dec. 31.	Quarter ending Mar. 31.					
106	Willoughby	Not open.														
107	Devon Park.	do														
108	Thingwalla.	do														
109	Anthracite.	Joseph Boag.	1st.	Mar. 29.	40	25	15	16	Very fair.	41 67	62 50	21				57 33
110	Crescent.	Not open.														
111	Bresaylor.	Katie G. Clink.	3rd	Mar. 29.	86	38	22									104 17
112	Silton.	Not open.														
113	Pioneer.	do														
114	Glenmore.	Helen Choate.	1st.	Mar. 29.	92	25	10	14	Very good.	58 34	87 50	15	22 50	1 30	19 50	187 84
115	Orangedale.	Not open.														
116	Katepwe.	F. G. Marwood.	2nd	Mar. 29.	95	27	17	18	Very good.	50 00	75 00	21	31 50	1 30	27 30	183 80
117	Hope.	E. Scott.	3rd	Dec. 23.						41 67						41 67
118	Castletown.	Not open.														
119	Buffalo Lake.	do														
120	New Stockholm.	do														
121	Pincher Creek.	A. E. Cox.	3rd	Mar. 29.	83½	15	9	9	Excellent.	41 67	62 50	8	12 00	1 50	12 00	128 17
122	Maple Grove.	Not open.														
123	Grampian Hills.	D. McPherson.	3rd	Mar. 29.	93	27	10	10	Fair.	41 67	62 50	9	13 50	0 70	6 30	123 97
124	Churchbridge.	Not open.														
125	South View.	Not open.														
126	Pahonan.	Thos. Bear.	Pro.	Mar. 29.	97	28	21	20	Good.	33 34	50 00	21	31 50	1 10	23 10	137 94
127	Florence.	Not open.														
128	Red Deer Lake.	Miss M. B. McArthur.	2nd	Mar. 29.	82½	10	29	7	Very good.	50 00	75 00	9	13 50	1 30	11 70	150 20
129	Brookside.	Not open.														
130	MacDowall.	Elizabeth Dunlop.	Pro.	Mar. 29.	111	16	14	12	Very fair.	33 34	50 00	12	18 00	0 90	10 80	112 14
131	Harchner.	Miss A. Smith.	2nd	do 29.	95½	24	14	15	Good.	50 00	75 00	16	24 00	1 10	17 60	166 60
132	Traford.	Not open.														
133	Aroline.	do														
134	Farmede.	do														
135	McKay.	do														
136	Cut Arm.	do														
137	Mistowasis.	Ed. Johnstone.	Pro.	Mar. 29.	45	9		7			50 00					50 00
138	Esterhaz.	Not open.														



Report on Schools for Winter Term ended 31st March, 1889.

No.	District.	Teacher.	Teacher's Certificate.	School Closed for Term.	No. of Days School Open.	No. of Pupils on Register.	No. Present Day of Inspection.	Average Daily Attendance.	Inspector's Report.	Grant on Teacher's Certificate.				No. of Pupils Present 50 Days.	Capitation Grant at \$1.50 per capita.		Rate of Grant on Inspector's Report.		Grant on Inspector's Report.	Total.
										Quarter ending Dec. 31, 1888.	Quarter ending Mar. 31, 1889.	\$	cts.		\$	cts.	\$	cts.		
1	St. Antoine.	Rev. Julien Moulin	1st.	Mar.	29	91	20	12	Excellent.	58 34	87 50	18 00	12	18 00	1 50	18 00	181 84			
2	Saskatchewan.	L. O. Lamoureux	3rd.	do	28	91½	22	16	do	41 67	62 50	19 50	13	19 50	1 50	19 50	143 17			
3	St. Albert.	Sister Dillon	1st.	do	28	94	103	79	do	150 00	237 50	75 00	70	75 00	1 50	75 00	537 50			
4	St. Léon.	C. M. Turcotte	1st.	do	29	73	25	78	Good.	43 75	87 50	37 50	25	37 50	1 10	27 50	196 25			
5	Cunningham	Rev. J. T. Quevillon.	1st.	do	29	93	56	33	Excellent.	91 67	137 50	67 50	45	67 50	1 50	67 50	364 17			
6	Bellerose	G. W. Gaudner	2nd.	do	29	79	33	24	Good.	50 00	75 00	30 00	20	30 00	1 10	22 00	177 00			
8	Stobart.	Sister P. Allard.	3rd.	do	29	99	38	26	Very good.	41 67	62 50	43 50	29	43 50	1 30	37 70	185 37			
9	St. Laurent.	O. Peltier	3rd.	do	11	11	11	8	do	83 34	62 50	13 50	9	13 50	1 30	11 70	145 84			
10	Lourdes	Octave Regnier	2nd.	Mar.	29	95	9	8	do	50 00	75 00	28 50	28	28 50	1 30	24 70	224 24			
11	St. Vital of Battleford.	Onésime Derval	1st.	do	29	94	56	37	do	58 34	87 50	19 50	19	19 50	1 30	24 70	199 04			
12	Lebret.	A. de Laronde	1st.	do	29	94	51	25	do	58 34	87 50	19 50	38	19 50	1 30	24 70	199 04			
14	St. L. de Langevin.	L. S. P. de la Croix	3rd.	do	29	97	40	36	Excellent.	41 67	112 50	57 00	38	57 00	1 50	57 00	268 17			
15	St. J. de Dauphinais.	Joseph Brunet	Pro.	do	29	94	20	11	Very good.	33 34	50 00	13 50	13	13 50	1 30	16 90	119 74			
16	St. F. de Taché.	Catherine Tourond.	3rd.	do	29	96	22	20	do	41 67	62 50	25 50	17	25 50	1 30	22 10	151 77			
17	St. Joseph.	Rev. T. P. Plamondon.	1st.	do	29	96	20	13	Very fair.	58 34	87 50	9 00	6	9 00	0 90	5 40	160 24			
18	St. Agnes.	Auguste Hebert.	1st.	do	29	95½	16	16	Very good.	58 34	87 50	21 00	14	21 00	1 30	18 20	185 04			
19	New Munster.	H. F. Denchly.	Pro.	do	29	69	15	13	Good.	13 45	50 00	16 50	11	16 50	1 10	12 10	92 05			
20	Mazenod	A. O. Garnot.	3rd.	do	29	95	23	15	Fair.	41 67	62 50	31 50	21	31 50	0 70	14 70	150 37			
21	St. Julien.	P. Parenteau.	Pro.	do	29	93	21	17	Good.	33 34	50 00	27 00	18	27 00	1 10	19 80	130 14			
22	St. Paul.	Alphonse Vandal.	Pro.	do	29	97	18	17	do	33 34	50 00	31 50	21	31 50	1 30	27 30	130 14			
23	Sitkala.	Joseph Lapointe.	Pro.	do	29	93½	28	23½	Very good.	33 34	50 00	31 50	21	31 50	1 30	27 30	142 14			
24	Fourmond.	Jean Piere M. Piquet.	3rd.	do	29	92	24	20	Excellent.	62 50	62 50	30 00	20	30 00	1 50	30 00	122 50			

WINTER Term ended 31st March, 1889.

No.	District.	Teacher.	Teacher's Certificate.		School Closed for Term.	No. of Days School Open.	No. of Pupils on Register.	No. Present Day of Inspection.	Average Daily Attendance.	Inspector's Report.	Grant on Teacher's Certificate.		No of Pupils Present 50 Days.	Capitation Grant at \$1.50 <i>per capita</i> .		Rate of Grant on Inspector's Report.	Grant on Inspector's Report.		Total.
			1st.	2nd.							Quarter ending Dec. 31, 1888.	Quarter ending March 31, 1889.							
1	Lacombe	Sister Mary Green	1st.		Mar. 1	73	112	94	80	Excellent.	\$ 141 67	\$ 212 50	66	\$ 75 00	cts. 75 00	\$ 1 50	\$ 75 00	\$ 504 17	
2	St. Andrew	Rev. D. Gillies	1st.		do 29	77½	22	18	12	Very good.	\$ 58 34	\$ 65 65	8	\$ 12 00	cts. 12 00	\$ 1 30	\$ 10 40	\$ 146 39	
3	St. Mary	Annie McKinnon	3rd.		do 5	78	12	8	9	do	\$ 41 67	\$ 62 50	9	\$ 13 50	cts. 13 50	\$ 1 30	\$ 11 70	\$ 129 37	
4	St. Margaret	Ronald McDonald	3rd.		do 6	66	19	6	7	Good.	\$ 41 67	\$ 57 50	6	\$ 9 00	cts. 9 00	\$ 1 10	\$ 6 60	\$ 114 77	
5	St. Peter	L. McPhee	3rd.		Feb. 6	53	14	11	10	do	\$ 41 67	\$ 87 00	3	\$ 4 50	cts. 4 50	\$ 1 10	\$ 3 30	\$ 79 47	
6	Prince Albert	Sister F. McCormack	1st.		Mar. 29	93	39	19	29	Excellent.	\$ 58 34	\$ 80 00	19	\$ 28 50	cts. 28 50	\$ 1 50	\$ 28 50	\$ 202 84	
7	St. Joachim	Sister J. Coughlan and Asst.	1st.		do 29	94	67	47	22	do	\$ 108 34	\$ 162 50	39	\$ 58 50	cts. 58 50	\$ 1 50	\$ 58 50	\$ 387 84	
8	Holy Cross	W. J. McDonald	2nd.		do 29	20	20	16	15			\$ 25 00						\$ 25 00	
9	Lethbridge						36												

## Report for Quarter ended 30th June, 1889.

No.	District.	Days Open.	No. of Pupils on Register.	Average Daily Attendance.	Percentage of Attendance.	Teacher.	Class of Certificate.	Salary per Month.	Percentage of Salary.	Grant for Quarter.	Capitation Grant.	Total.
								\$ cts.		\$ cts.	\$ cts.	\$ cts.
1	Moose Jaw	60 $\frac{1}{2}$	119	70	...	Ida McMillan	2nd	41 66	70	87 50	...	146 00
2	Qu'Appelle	61 $\frac{1}{2}$	82	49	...	Lena Simpson	3rd	30 00	65	58 50	...	...
	do	...	...	...	...	D. S. McCannel	2nd	66 66	70	140 00	...	224 00
3	Prince Albert	55	109	65	...	Nettie L. Bulvea	1st	40 00	70	84 00	...	...
	do	...	...	...	...	J. F. A. Snell	3rd	83 33	75	187 50	...	315 87
4	Regina	61	169	115	...	Robena McGregor	Pro.	32 50	65	65 00	...	...
	do	...	...	...	...	Alexina McGregor	1st	32 50	65	63 07	...	...
	do	61	62	...	...	N. F. McKay	2nd	83 33	75	187 50	...	...
	do	61	62	...	...	Cassie Barnes	3rd	40 00	70	84 00	...	...
	do	62	62	...	...	Isabella Kerr	2nd	30 00	65	58 50	...	...
	do	58 $\frac{1}{2}$	...	...	...	Ida M. Bond	2nd	30 00	70	63 00	...	393 00
5	Broadview	59	30	19	...	Mary Wallace	2nd	35 00	70	73 50	...	73 50
6	Kenil	55	26	18	...	Miss H. C. Mooney	2nd	40 00	70	84 00	...	81 00
7	Edmonton	60	74	30	...	Jas. Martin	1st	100 00	75	225 00	...	347 50
	do	...	...	...	...	Lillian M. Osborne	2nd	58 33	65	122 50	...	...
8	St. Andrews	65	47	37	...	Wm. Gerrond	3rd	55 00	65	107 25	...	107 25
9	Colleston	58	23	15	66	Miss Jackson	2nd	41 66	70	87 50	12 50	100 00
10	Prince Albert, East	58	54	42	...	W. E. Bartlett	1st	75 00	75	168 75	...	168 75
11	Wapella	62	47	26	...	Wm. Logan	2nd	40 00	70	84 00	...	84 00
12	Moosomin	62	164	91	...	J. K. McInnis	1st	83 33	75	187 50	...	330 00
	do	...	...	...	...	Kate E. Ross	2nd	40 00	70	84 00	...	...
	do	...	...	...	...	Eliza J. Guthrie	3rd	30 00	65	58 50	...	135 00
13	Saskatoon	62	32	21	...	James Leslie	1st	60 00	75	135 00	...	135 00
14	Little Pipestone	61	19	14	74	J. W. McPhail	3rd	37 50	65	73 12	15 00	88 12
15	Montgomery	60	9	7	80	Maggie Buchanan	2nd	40 00	70	84 00	15 00	99 00
16	St. John	...	...	...	93	Miss Cherry	Pro.	37 50	65	73 12	15 00	88 12
17	Red Deer Hill	55 $\frac{1}{2}$	23	21 $\frac{1}{2}$	...	Sarah Thompson	3rd	33 33	65	65 00	...	65 00
18	St. Catharines	59	31	22	...	James Short	1st	100 00	75	225 00	...	...
19	Calgary	62	209	130	...	Jessie McIntyre	2nd	50 00	70	105 00	...	512 25
	do	...	...	...	...	Minnie Wheeler	2nd	45 00	70	94 50	...	...
	do	...	...	...	...	Sadie Cowan	3rd	45 00	65	87 75	...	...

20 Park...	62	17	9	55	M. Fletcher...	2nd	41 66	70	87 50	10 00	97 50
21 Eden Grove...	39	20	9	47	Mrs. McCreedy...	3rd.	35 00	65	68 25	...	68 25
22 Beauville...	39	18	13	75	Charlotte Wilson...	3rd.	35 00	65	45 50	10 00	55 50
23 Belmont...	65	33	24	72	J. B. Steele...	2nd	55 00	70	115 50	...	115 50
24 Sturgeon...	61	22	16	73	Annie A. York...	3rd.	45 83	65	89 37	15 00	104 37
25 Wolseley...	62	30	20	73	J. A. M. Loughrey...	2nd	41 66	70	37 50	...	87 50
26 Fort Qu'Appelle...	62	41	26	75	E. W. Miller...	2nd	60 00	70	126 00	...	126 00
27 Revine Bank...	61	20	15	75	G. H. Hutton...	Pro	35 00	...	...	...	104 50
28 Maple Green...	60	16	8 5	53	E. S. Bond...	2nd	45 00	70	94 50	10 00	73 50
29 Wascana...	56	8	6	83	Ada R. Tegart...	3rd.	30 00	65	58 50	15 00	73 50
30 Round Plain...	61	20	15	75	G. M. Atkinson...	1st.	66 66	75	180 00	15 00	165 00
31 Poplar Grove...	62	9	7	78	Ida J. Niblock...	3rd.	32 00	65	62 40	15 00	77 40
32 Thistle...	...	...	...	...	...	...	...	...	...	...	...
33 Summerberry...	60	8	7	92	Kate Middlemiss...	Pro	32 58	65	63 53	15 00	78 53
34 Summerhill...	60	38	27	70	J. F. Middlemiss...	2nd	45 00	70	94 50	...	94 50
35 Westfield...	61	12	8 1/2	80	W. H. Thompson...	3rd.	35 00	65	68 25	13 75	82 00
36 Greenville...	54	11	9	80	Fanny Thompson...	3rd.	32 50	65	52 81	12 50	65 31
37 Abbottsford...	37	23	19	32	A. W. Argue...	2nd	40 00	70	49 00	8 75	57 75
38 Sunnymead...	62	21	13	65	J. H. Bourns...	3rd.	23 16	65	56 87	12 50	69 37
39 Mount Pleasant...	59	19	11	58	Esther Fallis...	3rd.	30 00	65	58 50	11 25	69 75
40 Bonnycastle...	...	...	...	...	...	...	...	...	...	...	...
41 Lindsay...	60	45	28	94	H. Rodgers...	2nd	50 00	70	105 00	...	105 00
42 Kinseto...	30	16	15	94	D. R. Drummond...	1st.	47 00	75	52 87	7 50	60 37
43 Hillburn...	57 1/2	18	13	74	J. C. McDonald...	3rd.	40 00	65	78 00	15 00	93 00
44 Island Lake...	50	12	8	68	J. C. Slater...	2nd	50 00	70	87 50	11 45	98 95
45 Fleming...	62	20	14	70	Isabella Kyles...	2nd	35 42	70	74 37	13 75	88 12
46 Fairfield...	59	23	15	65	Isabella Coulson...	3rd.	35 00	65	68 25	12 50	80 75
47 Macleod...	62	29	17	60	Mary E. Parker...	3rd.	50 00	65	97 50	...	97 50
48 Pheasant Forks...	56	15	9	60	G. H. Mott...	2nd	40 00	70	84 00	11 25	95 25
49 Indian Head...	59 1/2	44	27	60	Laura Parke...	2nd	41 67	70	87 50	...	87 50
50 Springbrook...	...	...	...	...	...	...	...	...	...	...	...
51 Lethbridge...	61	104	70	...	L. B. Latimer...	2nd	70 00	70	147 00	...	244 50
52 do...	...	...	...	...	Margaret Duff...	3rd	50 00	65	97 50	...	83 25
53 Faulkner...	67	17	13	75	Mary Lucas...	3rd	35 00	65	68 25	15 00	80 75
54 Widesawke...	50	15	10	67	H. H. Skinner...	3rd.	35 00	65	68 25	12 50	105 00
55 Meadow Lea...	58	15	12	79	Jessie McNiece...	1st.	40 00	75	90 00	15 00	105 00
56 Lansdowne...	62	12	8	66	W. R. Tyms...	2nd	38 00	70	79 80	12 50	92 30
57 Whitewood...	61	48	41	66	F. A. Morrison...	2nd	50 00	70	105 00	...	105 00
58 Ivy...	...	...	...	...	...	...	...	...	...	...	...
59 Spring Coulee...	62	19	11	58	H. O. Partridge...	2nd	40 00	70	84 00	11 25	95 25
60 Buffalo Head...	59 1/2	12	7	58	Mark Westaway...	3rd.	37 00	65	72 15	11 25	83 40
61 MacLean...	53	21	17	85	A. T. Fotheringham...	2nd	45 00	70	78 75	12 50	91 25
62 Rillington...	...	...	...	...	...	...	...	...	...	...	...
63 Pasqua...	29	10	6	66	J. Morton...	Pro.	25 00	65	24 37	6 24	30 61
64 Boggy Creek...	...	...	...	...	...	...	...	...	...	...	...
65 Prospect...	56	13	9	72	Wm. Adams...	Pro.	33 00	65	64 35	13 75	78 10
66 Tregarva...	54	14	8	57	Annie Tegart...	3rd.	32 83	65	64 02	10 00	74 02
67 Victoria Plains...	...	...	...	...	...	...	...	...	...	...	...
68 Lake View...	62 1/2	14	13	96	Alfred Deyell...	3rd.	35 00	65	68 25	15 00	83 25

## Report for Quarter ended 30th June, 1889—Continued.

No.	District.	Days Open.	No. of Pupils on Register	Average daily Attendance.	Percentage of Attendance.	Teacher.	Class of Certificate.	Salary per Month.	Percentage of Salary.	Grant for Quarter.	Capitation Grant.	Total.
								\$ cts.		\$ cts.	\$ cts.	\$ cts.
70	Golden Plain.											
71	Battleford.	58	33	23		Ida J. Morrison.	2nd	50 00	70	105 00		105 00
72	Red Fox Valley.	62	17	13	76	M. McLean.	3rd	37 00	65	72 15	15 00	87 15
73	Kimbrae.	63	18	11	65	J. C. Richards.	3rd	21 00	65	40 95	12 50	53 45
75	Victoria.											
76	Medicine Hat.	60½	113	68		J. K. Drinnan.	2nd	75 00	70	157 50		157 50
77	Weed Hills.	50	15	10½	70	Marion Fotheringham.	3rd	35 00	65	56 87	11 45	68 32
78	Boscawis.	65	14	10	71	J. W. Kennedy.	2nd	40 00	70	84 00	13 75	97 75
79	Glenbeg.	61	12	10	84	Maggie Maxfield.	1st.	40 00	75	90 00	15 00	105 00
80	Maple Creek.		34	26		A. McVicar.	1st.	62 50	75	140 62		140 62
81	Camduff.	54	18	13½	75	C. I. Sweet.	Pro.	35 00	65	56 87	12 50	69 37
82	Welwyn.	60	21	13	73	Jean Traquair.	2nd	40 00	70	84 00	15 00	99 00
83	Clare.	42	14	12	83	Margt. Hislop.	3rd.	25 00	65	32 50	10 00	42 50
84	Pine Creek.	62	16	9	54½	Louisa F. Brogden.	2nd	41 66	70	87 50	10 00	97 50
85	Midnapore.	61	10	7	70	Helen A. Shaw.	Pro.	33 33	65	65 00	13 75	78 75
86	Wellington.	62	10	8	87	Jas. Balfour.	2nd	38 00	70	79 80	15 00	94 80
87	Balcarres.	58	12	9	75	A. Stauffer.	2nd	40 00	70	84 00	15 00	99 00
88	Orangeville.	59	12	10	84	J. Young.	3rd.	40 00	65	78 00	15 00	93 00
89	Two Rivers.	27	9	7	76	Alma McLeod.	3rd.	30 00	65	29 25	7 50	36 75
90	Forest Farm.											
91	Fort Saskatchewan.	61	19	10	55	Mrs. Inglis.	3rd.	50 00	65	97 50	10 00	107 50
92	Strasbourg.	59	14	8	60	J. B. E. Wernecke.	2nd	28 06	70	58 92	11 25	70 17
93	Pheasant Valley.	60	23	18	79	W. R. C. Willis.	2nd	48 00	70	100 80	15 00	115 80
94	Glen Adelaide.	60	14	11	78	Mary Rex.	3rd.	35 00	65	68 25	15 00	83 25
95	St. Leonards.	55	26	16		Miss Wilson.	3rd.	31 25	65	60 94		60 94
96	Alameda.	63	17	14	81	F. S. Deyell.	3rd.	32 00	65	62 40	15 00	77 40
97	Orkney.	63	18	14	77	Kate Gillespie.	Pro.	30 00	65	58 50	15 00	73 50
98	East Edmonton.	63	24	13	55	Wm. Stiff.	Pro.	41 66	65	81 25	10 00	91 25
99	Saskatchewan.	61	8	6½	81	Mrs. Caswell.	Pro.	33 33	65	54 16	15 00	69 16
	do.					W. Lindsey.	1st.	45 00	75	16 87		61 87
100	Springbank.	45	20	12	60	Miss L. J. Cowan.	3rd.	35 00	65	58 88	9 37	68 25
101	New Tulscha.	61	13	12	93	B. Barton.	Pro.	30 00	65	58 50	15 00	73 50

102 National Park.....	62	26	16	N. Gilmour.....	2nd	178 50	178 50
103 Gleichen.....	61	25	20	Louisa Burch.....	2nd	47 50	102 50
104 Red Deer Central.....	50	11	10	Esther A. Sutherland.....	1st.	84 37	96 87
105 Langenburg.....	49	21	14 75	Lizzie Cameron.....	Pro	53 10	6 78
106 Willoughby.....	42	24	18	Gudney Jones.....	Pro	39 00	49 00
107 Devon Park.....	61	31	22	Jos. Boag.....	1st.	157 50	157 50
108 Thungvalia.....	62	19	16	W. C. Middleton.....	1st.	112 50	127 50
109 Anthracite.....	42	36	25	Mrs. Cinnamon.....	3rd	65 00	65 00
110 Crescent.....	60	13	9	Willia Simpson.....	3rd	58 50	72 25
111 Bressaylor.....	62	19	11	Helen Choate.....	1st.	112 50	123 75
112 Silton.....	61	13	11	Amie Scott.....	3rd	32 40	77 40
113 Pioneer.....	57	25	16	F. G. Marwood.....	2nd	109 20	121 70
114 Glenmore.....	59	24	15	Leonora Hill.....	2nd	73 50	86 00
115 Orangedale.....	35	19	13	A. D. Tracy.....	2nd	58 33	65 96
116 Katapwe.....	53	14	8	Adela Babb.....	3rd	40 62	50 00
117 Hope.....	62	14	10	A. E. Cox.....	3rd	97 50	112 50
118 Castletown.....	61	22	13	D. L. McPherson.....	3rd	58 50	69 75
119 Buffalo Lake.....	61	12	8 1/2	C. F. Lallemant.....	2nd	63 00	76 75
120 New Stockholm.....	60	37	26	Thos. Bear.....	Pro	65 00	65 00
121 Pincher Creek.....	56	11	9	Maggie B. McArthur.....	2nd	84 00	96 00
122 Maple Grove.....	61	18	14	F. W. Hicks.....	1st.	78 75	93 75
123 Grampian Hills.....	55	14	13	Miss Dunlop.....	Pro	58 50	73 50
124 Churchbridge.....	62	18	14	Addie Smith.....	2nd	73 50	88 50
125 South View.....	60	37	26	W. J. Skafte.....	Pro	58 50	72 25
126 Pabonan.....	60 1/2	9	6	E. J. Chappell.....	3rd	58 50	58 50
127 Florence.....	63	30	23	L. Robertson.....	3rd	65 00	73 70
128 Red Deer Lake.....	62	14	7	F. Fanny Graham.....	3rd	7 50	46 50
129 Brookside.....	62	17	5	E. Johnstone.....	Pro	56 88	71 88
130 MacDowall.....	63	13	11	Rev. T. A. Tettiebaum.....	1st.	100 00	107 33
131 Herchmer.....	45	19	10	C. E. Cumming.....	2nd	105 00	105 00
132 Trafford.....	58	27	17	E. Scott.....	3rd	12 50	64 50
133 Araline.....	51	14	11	Florence Goodridge.....	2nd	91 87	104 37
134 Fairmede.....	60	15	11	I. N. Guthrie.....	1st.	96 41	111 41
135 McKay.....	61	18	15	Maggie J. Walker.....	2nd	68 05	79 71
136 Cut Arm.....	48	16	13	V. L. Greenwood.....	Pro	32 50	42 50
137 Mistawasis.....	41 1/2	10	9	H. G. Webb.....	2nd	56 00	66 00
138 Esterhaz.....	37	13	10	J. W. Jones.....	3rd	29 25	36 75
139 Swea.....	31	11	10	Belle J. Ross.....	2nd	56 00	66 00
140 Saltcoats.....	42	23	19				
141 Auburn.....							
142 Cochrane.....							
143 Winlaw.....							
144 High River.....							
145 Rosedale.....							
146 Workman.....							
147 Stanley.....							
148 Elmore.....							
149 Ducks Point.....							
150 Grenfell.....							
151 Grahame.....							

[PART IV]



Report for quarter ended 30th June, 1889—Continued.

No.	District.	Days Open.	No. of Pupils on Register	Average Daily Attendance.	Percentage of Attendance.	Teacher.	Class of Certificate.	Salary per Month.	Percentage of Salary.	Grant for Quarter.	Capitation Grant.	Total.
								\$ cts.		\$ cts.	\$ cts.	\$ cts.
152	Riverdale.											
153	Spring Lake.	24	12	10	83	H. M. Lister	1st.	35 00	75	32 81	6 25	39 06
154	Inglesfield.	10	10	8	79	Eliza J. Rutherford	3rd.	35 00	65	11 37	2 50	13 87
155	Maryfield.	40	18	16	89	C. H. S. Traill	2nd.	40 00	70	56 00	10 00	66 00
156	Marlborough.	34	7	6	86	Miss M. Alexander	Pro.	25 00	65	28 44	8 75	37 19
157	Ebenezer.	26	16	14	87	Hugo Carstens	Pro.	36 00	65	29 25	6 25	35 50
158	Cotham.											
159	Yorkton.	31	20	19	90	Ellie E. Carson.	Pro.	30 00	65	29 25	7 50	36 75
160	Cannington Manor.											
161	Sunny South.											
162	Moose Mountain.											

## ROMAN CATHOLIC—Public.

No.	District.	Days Open.	No. of Pupils on Register.	Average Daily Attendance.	Percentage of Attendance.	Teacher.	Class of Certificate.	Salary per Month.	Percentage of Salary.	Grant for Quarter.	Capitation Grant.	Total.
								\$ cts.		\$ cts.	% cts.	\$ cts.
1	St. Antoine.....	59	25	17	67	Rev. J. Moulin.....	1st.....	41 66	75	93 75	12 50	106 25
2	Saskatchewan.....	57	20	15	77	L. O. Lamoureux.....	3rd.....	41 66	65	81 25	15 00	96 25
3	St. Albert.....	55	93	75		Sister Dillon.....	1st.....	83 33	75	187 50		
						do des Anges.....	1st.....	66 66	75	140 00		425 00
						do Jette.....	3rd.....	50 00	65	97 50		
4	St. Leon.....	57	22	16	75	A. A. Rinquette.....	3rd.....	58 33	65	113 75	15 00	128 75
5	Cunningham.....	60	23	18	78	Rev. Quevillon.....	1st.....	100 00	75	225 00	15 00	240 00
6	Bellerose.....	58	26	19		G. W. Gaudner.....	2nd.....	50 00	70	105 00		105 00
8	Stobart.....	55	51	40		Sister Allard.....	3rd.....	20 85	65	40 66		40 66
9	St. Laurent.....	61	18	10 <sup>3</sup>	59	Miss Pelletier.....	3rd.....	50 00	65	97 50	11 25	108 75
10	Lourdes.....	62	9	8	92	O. Regnier.....	2nd.....	33 33	70	70 00	15 00	85 00
11	St. Vital of Battleford.....	58 <sup>4</sup>	57	36		Miss O. Dorval.....	2nd.....	50 00	75	112 50		112 50
12	Lebrét.....	67 <sup>3</sup>	48	23		Alexander de la Ronde.....	1st.....	45 83	75	103 12		103 12
14	St. Louis de Langevin.....	61	43	35		L. S. P. de la Croix.....	3rd.....	54 16	65	105 62		105 62
15	St. Joseph de Dauphinais.....	58	14	13	92	I. Brunet.....	Pro.....	41 66	65	81 25	15 00	96 25
16	St. François de Taché.....	61	25	22	88	Mrs. Fourmond.....	3rd.....	33 33	65	65 00	15 00	80 00
17	St. Joseph.....	62	13	7	55	T. P. Planondon.....	1st.....	35 41	75	79 69	10 00	89 69
18	St. Agnes.....	61	18	15	87	A. Hebert.....	1st.....	58 33	75	131 25	15 00	146 25
19	New Munster.....	52	14	10	76	H. F. Dennehy.....	Pro.....	20 83	65	40 62	15 00	55 62
20	Mazenod.....											
21	St. Julien.....	62	22	20	91	Mrs. Parenteau.....	Pro.....	33 33	65	65 00	15 00	80 00
22	St. Paul.....	62	18	17	97	Miss Vandal.....	Pro.....	16 66	65	32 50	15 00	47 50
23	Sitkala.....	64	27	18		J. Lapointe.....	Pro.....	33 33	65	65 00		65 00
24	Fourmond.....											
25	Belanger.....	81	16	13	82	Miss Belanger.....	Pro.....	25 00	65	*65 00	*20 00	*85 00

\* For four months.

ROMAN CATHOLIC—Separate.

No.	District.	Days Open.	No. of Pupils on Register.	Average Daily Attendance.	Percentage of Attendance.	Teacher.	Class of Certificate.	Salary per Month.	Percentage of Salary.	Grant for Quarter.	Capitation Grant.	Total.
								\$ cts.		\$ cts.	\$ cts.	\$ cts.
1	Lacombe	60	113	81	{	Rev. Sr. Green	1st.	54 16	75	121 87	{	258 12
2	St. Andrew	61	29	20		do Quigley	2nd.	41 66	70	87 50		
3	St. Mary	42	11	7		do Poiret	Pro	25 00	65	48 75		
4	St. Margaret				64	Rev. D. Gillies	1st.	40 00	75	90 00	9 70	90 00
5	St. Peter					Miss McKinnon	3rd.	25 00	65	37 91		47 61
6	Prince Albert	54	24	16	67	Sister McCormack	1st.	41 66	75	93 75	12 50	106 25
7	St. Joachim	59	64	55	{	do Coghlan	1st.	83 33	75	187 50	{	327 50
8	Holy Cross	61	19	14		do O'Neill	2nd.	66 66	70	140 00		129 00
9	Lethbridge	59	37	31		W. J. Macdonald	2nd.	50 00	70	105 00		157 50
10	St. Alexander					C. McRae	1st.	70 00	75	157 50		
11	St. Patrick	72	14	11	80	Sister Stack	2nd.	41 66	70	*109 37	18 75	128 12

\* For 3½ months.

APPENDIX No. 4—Estimates and Expenditures of School Funds from  
1st July, 1887, to 30th June, 1889.

ITEMS.	Financial Year, 1st July, 1887, to 30th June, 1888.		Financial Year, 1st July, 1888, to 30th June, 1889.	
	Estimates.	Expen- ditures.	Estimates.	Expen. ditures.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1 Grants to teachers and assistant teachers.....	23,924 79	27,823 71	38,916 60	34,523 20
2 Capitation grants and grants on Inspectors' reports.....	7,137 50	7,709 64	10,012 50	10,130 70
3 Salaries of Board of Examiners and School Inspectors, including travelling expenses....	2,950 00	3,364 84	4,400 00	5,546 32
4 Expenses of Board of Education, remuneration and travelling expenses ..	1,000 00	1,479 40	1,700 00	1,064 10
5 Secretary's salary.....	1,200 00	1,400 00	1,500 00	1,500 00
6 School supplies, rent, &c., &c.....	195 00	111 86	100 00	30 00
7 Aid to schools in outlying districts by the Lieutenant-Governor.....	5,000 00	1,205 00	5,000 00	2,262 50
8 Printing forms, regulations, reports, &c.....	500 00	884 80	500 00	775 67
9 Clerical assistance.....	300 00	250 00	600 00	630 00
10 Stationery, postage, telegrams, &c.....	300 00	216 60	500 00	258 74
11 Miscellaneous.....	.....	101 21	.....	263 40
	42,507 29	44,547 06	63,229 10	56,984 63

---

PART V.

---

ROCKY MOUNTAINS PARK.

---



---

PART V.

---

---

REPORT OF SUPERINTENDENT OF ROCKY MOUNTAINS PARK.

---

BANFF, 30th December, 1889.

To the Honorable

EDGAR DEWDNEY, M.P.,

Minister of the Interior, Ottawa.

SIR,—The following report of the works carried on in the Rocky Mountains Park for the past year under my supervision I have now the honor of presenting.

On the 1st of May, 1889, a small force of men was placed at work on Spray Avenue, several culverts built, the roadbed completed and put in first-class condition. This avenue was also extended south of the Canadian Pacific Railway hotel to give access to the villa lots taken up the year previous in that locality. This road may now be considered as second to none in the park.

A large quantity of the surplus material taken from the ditches on this road was used for gravelling Glen and River Avenues after they had been ditched and drained, so that these roads, which had been cut out and made passable during the previous years, were fully completed and placed in good order this year in the most economical manner, as the surface material of one road served to make up the deficiencies of the others at one operation.

Mountain Avenue—leading to the Hot Springs—was the first road constructed in the park, and each year since it was opened a certain amount of labor has been expended in widening and draining it, as circumstances required.

This work has been completed this year, and Mountain Avenue may now be classed with the others in the park as excellent.

The branch avenue leading from Mountain Avenue to the middle springs was also completed, and easy access to that beautiful and interesting spot is now attainable.

These works were carried on with a small force, and occupied the months of May and June, and on and after the first of July the force was increased, and the work of opening and extending new avenues was commenced more vigorously.

The most important of these being the road from the Spray bridge down the Bow River, and round the base of Peak Mountain, and round again by the Bow, thus affording a drive of about seven miles of the most charming scenery in the park, and giving access to many fishing points along the Bow.

Portions of this road were also necessary to reach certain building sites on the Bow, which persons expressed a desire to take up and build on.

Buffalo Street was graded and ditched as far along the Bow as villa lots had been taken up and built on, but easy access to which was not attainable till this road was completed.

Later on in the season this road was extended on down the Bow River to the falls, affording the most beautiful and romantic drive in the park.

A portion of Minniwauka Avenue was gravelled this year, having been left unfinished the previous year in consequence of early snowfall.

Several of the streets in the village of Banff were graded this summer, and the lanes in rear of the building lots cleared out and graded, giving the people the means of reaching their warehouses by the rear, and preventing injury to the trees and plantations in front of their buildings.

A sidewalk was also built on each side of the Main Street, from the bridge to Cariboo Street, and crossings made at points most convenient for the public.

A number of evergreen trees were planted along the outside of the sidewalk, and inside the ditch, and grouped so as to add much to the beauty of the village.

These works are now completed, and will in the future require only ordinary repairs. They were necessary, from the fact that many persons living on the rear streets had no roads but the natural surface of the ground, and in some cases their places of abode or business were nearly inaccessible from the main roads.

Besides the utility of this work it has had the effect of adding much to the appearance of the town as well as to the convenience of the inhabitants.

In closing the work for this season advantage was taken of a fall of a few inches of snow to clean up and burn a large quantity of brush and rubbish that had accumulated during the summer from the work on the roads, and a small force of men was kept on for that purpose, which will not only add to the appearance of the drives but reduce the danger from fires next year.

#### FOREST FIRES.

Early in May a fire occurred in the hay marshes on the south and west of the Bow River, which for a time appeared very serious, but through the exertions of the men on the works, the inhabitants of the place, and the favorable change of the wind, no damage was done further than the scorching of some ornamental trees in that portion of the park, but which, however, was of sufficient importance to cause great regret that these fires should occur, and their causes remain so difficult to ascertain.

During the month of June very extensive fires were seen coming towards the park from the west, and in due time they approached the boundary. No human efforts could avail to arrest the flames while they surged through the heavy pine timber beyond the limits of the park, on the north-west side, but the bare summits of the mountains, which form that boundary, were effectual in arresting their progress, notwithstanding the terrific fury of their approach.

All that could be done under these circumstances was to watch carefully for the sparks and masses of burning wood carried by the wind over the mountain peaks, and falling thousands of feet from their source.

All the men on the works had to be taken off to fight this demon, and the inhabitants were warned out to assist for days in cutting out fire breaks and preventing the spread of these fires down into the valleys of the park: at last success crowned our efforts, with comparatively little damage to the park, but considerable destruction to the adjoining timber limits.

The fires this season have been the most destructive known for many years, and now that they are over it is satisfactory to know that as regards the track of the fire this year we can hardly be visited from the same quarter for some time to come.

The damage and danger experienced this year from bush fires and the risk of them forcing their way to the interior of the park at some future time impressed me with the importance of cutting out avenues through the dense pine groves. Over six miles of this work was done this summer, and not only are good fire breaks found to that extent, but easier means of access to distant fires are afforded the men in their efforts to reach the places threatened. In cases such as these, any kind of a road or path is of great use in enabling the men to reach the fire in its early stages. Many of the avenues leading in the direction to intersect the usual path of these fires are now opened, and in future the difficulties attending this work will be much lessened, besides which the labor of opening these roads is so much work done towards their final completion. This I considered as the most economical mode of meeting the difficulties from fires.

Besides the advantages of this work as fire breaks, these opened roads afford means of access to many points in the park for persons on foot or horseback who visit to explore, hunt or fish beyond the range of the carriage roads, and persons seeking sites for building can now better locate their positions by having the plan of the park mapped out on the ground for them.



## NURSERY.

As mentioned in my report for last year, a better site had been secured for the nursery, and as early as possible last spring the ground was laid out and fenced with wire.

The young trees were moved from the old sites and from the trenches in which most of them were placed, and planted afresh in the new nursery—and as this work could not be commenced till after the frost had left the ground, the time left for this tedious operation was not sufficient to give these young trees a fair chance; but, notwithstanding this, they appeared in a very flourishing condition throughout the summer, owing in part to the good quality of the soil and to the excellent facilities for watering and irrigating the whole space allotted to the nursery.

It is situated immediately at the base of the Cascade Mountain, and the stream from whence the mountain takes its name falls perpendicularly some thousands of feet down its face and disappears amidst the *debris* at its base at a point about 300 feet above the level of the plain. At this point a portion of the water is led into a box or small reservoir, and from thence a pipe leading down the slope conveys the water to the nursery, where stand pipes, at several places, allow the water to be distributed by means of a short hose to every point required, and the whole nursery can be watered on short notice at no additional labor or expense.

Had this site not been secured for the nursery and this system of irrigating it not been devised, it is a question if the idea of cultivating a nursery could have been carried out successfully, as the difficulties and expenses of supplying water to the shrubs would have been very great.

The trees have now had two removals, and it cannot be said that they have had a fair chance for living; but notwithstanding this drawback they show ample life and vigor, at least as regards the deciduous trees.

The evergreens never did look healthy, and I fear that many of them cannot recover. This, however, is of little consequence, as the park is well supplied with evergreens, and of a quality much superior to anything that can be imported.

About seventy-five per cent. of the deciduous trees have succeeded, and there can be no doubt that a much larger proportion would have been saved if the present site for the nursery could have been secured at the time of their arrival here. This, however, was impossible at the time, and the next best thing was done.

## BRIDLE ROADS.

The avenues chopped out this year but not yet graded will answer in the mean time a good purpose as bridle roads and paths for persons on foot, but I would strongly advocate the opening up of a more extended system of these bridle roads leading up the several valleys of the park.

At the heads of the several smaller streams falling into the Bow, and on the Bow itself, many small lakes are found, well stocked with fish, and the surrounding country abounds with game of various sorts.

It is very desirable that these points should be reached for the benefit of sportsmen and others, and it is thought that this object can be attained most effectually and cheaply by means of bridle roads leading up through the valleys; while in the centre of the hunting grounds a cheap log hut could be built and rented to parties wishing to occupy it, at so much per week, whereby a sum sufficient to pay the interest on the outlay on the building could be obtained. This scheme would be very popular, and would add much to the attractions of the park.

These bridle roads can be built cheaply, and no true sportsman would object to travel 10 or 15 miles over such a road for the sake of a few weeks sport. Besides it is desirable that roads leading to these hunting grounds should not be available as carriage roads, as in that case the seclusion of the hunting grounds might be interfered with.

---

---

VISITORS.

The number of visitors to the park during the past season, although exceeding that of any previous year, did not come up to what might reasonably have been expected.

Several causes may be assigned for this, the most effective being the great quantities of smoke that lodged in the mountains for many weeks.

The fires that took place early in the season, although local, did not have the effect of obscuring the mountains in the park, but those that occurred later on, in August and September, threw a dense cloud over the whole mountain ranges, as far west as the Pacific coast, and eastward to Medicine Hat.

These fires raged through Oregon and Washington Territories along the Pacific, and westerly winds prevailing for several weeks carried the smoke through the mountains. The consequence was that hundreds of people passed on through the mountains without stopping, as usual, to enjoy the magnificence of the scenery, and others deferred making the trip from the reports they heard of the obscuring effects of the smoke.

It was unfortunate that the visit of the Canadian Medical Association took place at this time, as it was very desirable that such a highly intelligent and influential body of men should see this health resort in its usual condition, and not in the exceptional one in which it was unfortunately their fate to witness it.

On the 19th October His Excellency the Governor General, Lady Stanley and suite, visited the park, and during the three days of their stay visited many places of attraction and interest.

## BUILDINGS.

In the autumn of 1888 a contract was entered into for the erection of a dwelling house for the Land Agent here, and in November another contract for the dwelling for the Superintendent.

The contract for the Agent's house was completed in April last, but the Superintendent's house has remained unfinished, in consequence of the builders' inability to complete it within the terms of the contract.

## TELEPHONE.

A telephone system has this year been established by Mr. Gisborne, under instructions from the Minister of Public Works.

The system connects the Mounted Police barracks, the Government offices, the Hot Springs, the Cove and the Canadian Pacific Railway hotel.

## METEOROLOGICAL.

A table of the temperatures and other particulars of the weather for the past year is the result of observations made by Mr. Macleod, who had also charge of the nursery during the summer months.

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

GEO. A. STEWART,  
*Superintendent.*

## Work done from 1st May to the 31st October, 1889.

## ROADS.

Nature of Work.	Locality.	Quantity.
Gravelling .....	Minniwauka .....	242·4 rods.
Ditching and gravelling .....	Glen Avenue .....	109·0 do
Gravelling .....	River do .....	133·3 do
Grading and gravelling .....	Spray do .....	218·2 do
Widening, &c .....	Glen do .....	60·6 do
do .....	Mountain Avenue .....	151·5 do
Close cutting, grading .....	Cypress do .....	2,290·7 do
Grading .....	Middle Springs .....	90·9 do
Grading and ditching .....	Buffalo do .....	290·8 do
	Total .....	3,587·4 rods, or 11·21 miles.
Close cutting .....	Laret Avenue .....	2,980 feet.
do .....	Juniper do .....	4,900 do
do .....	Spray do .....	750 do
do .....	Aspen do .....	3,200 do
do .....	Elm do .....	3,030 do
do .....	Ash do .....	6,500 do
do .....	Chestnut do .....	3,970 do
do .....	Pine do .....	7,610 do
	Total .....	*32,940 feet.

## STREETS, LANES, ETC.

Gravelling and ditching .....	Buffalo Street .....	300 feet.
do do .....	Cariboo do .....	1,020 do
do do .....	Wolf do .....	1,200 do
do do .....	Bear do .....	600 do
do do .....	Beaver do .....	1,400 do
	Total .....	4,520 feet.
Lanes .....		2,800 feet.
Sidewalk .....	Banff Avenue .....	1,600 feet.

## EXPENDITURE ON WORKS.

On What Expended.	Amount.
	\$ cts.
Roads .....	9,729 19
Buildings .....	6,066 12
Surveys .....	1,500 87
Bridges .....	44 45
Waterworks .....	1,587 11
Cave and Basin .....	22 10
Caretakers' salaries .....	1,008 10
Nursery .....	420 37
Clearing land .....	170 61
Contingencies .....	655 45
Total .....	21,204 37

\*Equal to 6·23 miles 40 feet wide or 30·24 acres.

NUMBER and Nationality of Persons who Registered at the Cave and Basin.

Nation.	Number.
Canada.....	2,245
United States.....	517
England.....	171
Scotland.....	36
Ireland.....	111
India.....	10
Australia.....	14
China.....	15
France.....	9
Japan.....	13
Cape of Good Hope.....	2
Isle of Man.....	2
Finland.....	1
South America.....	2
Sandwich Islands.....	3
Mexico.....	1
Denmark.....	1
Wales.....	1
Bermuda.....	1
Italy.....	1
Total.....	3,156

C. P. R. HOTEL.

Visitors between 1st November, 1888, and 31st October, 1889.

From	November, 1888.	December, 1888.	January, 1889.	February, 1889.	March, 1889.	April, 1889.	May, 1889.	June, 1889.	July, 1889.	August, 1889.	September, 1889.	October, 1889.	Total.
Canada.....	63	40	28	51	48	61	58	89	151	309	156	145	1,199
England.....	5	2	...	1	...	8	23	27	26	19	40	26	177
Scotland.....	...	...	...	...	1	2	1	2	2	5	5	4	22
Ireland.....	1	...	...	...	...	...	2	4	...	...	...	...	7
Australia.....	...	...	3	...	...	...	1	1	4	2	3	2	15
New Zealand.....	...	...	...	...	...	...	3	3	2	2	...	...	5
India.....	1	...	...	...	...	...	2	2	1	...	1	...	7
China.....	...	...	...	...	...	...	4	3	4	1	2	1	15
Japan.....	...	...	...	...	...	...	6	4	...	1	4	...	17
Germany.....	...	...	...	...	...	...	...	...	1	...	...	1	2
France.....	...	...	...	...	...	...	2	...	...	4	5	...	11
Holland.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Switzerland.....	...	...	...	...	...	...	...	1	...	...	...	...	1
Belgium.....	...	...	...	...	...	...	...	...	...	...	...	1	1
Sandwich Islands.....	...	...	...	...	2	...	...	...	1	...	...	1	4
Cape of Good Hope.....	...	...	...	...	...	...	...	...	...	...	1	...	1
Mexico.....	...	...	...	...	...	...	1	...	...	...	...	...	1
United States of America.....	5	2	3	3	7	15	30	69	135	158	56	30	513
Total.....	76	44	34	55	58	86	129	205	327	501	273	211	1,990

## SANITARIUM.

Visitors between 1st November, 1888, and 31st October, 1889.

From	November, 1888.	December, 1888.	January, 1889.	February, 1889.	March, 1889.	April, 1889.	May, 1889.	June, 1889.	July, 1889.	August, 1889.	September, 1889.	October, 1889.	Total.
Canada .....	99	119	106	129	98	103	99	142	206	173	106	136	1,516
England .....	1	...	...	...	...	...	3	12	10	2	2	...	30
Scotland .....	...	...	...	...	1	...	...	...	2	...	...	...	3
Ireland .....	...	...	...	...	...	...	...	1	...	...	...	...	1
Australia .....	...	...	...	...	3	...	...	...	...	...	...	...	3
China .....	...	...	...	...	...	...	...	...	1	...	...	...	1
Germany .....	...	...	...	...	...	1	...	...	...	...	...	...	1
United States of America .....	7	9	12	1	2	3	8	13	7	13	9	6	90
Total .....	107	128	118	130	104	107	110	168	226	188	117	142	1,645

Date.	Thermometer.			Weather.	Date.	Thermometer.			Weather.
	7 a.m.	2 p.m.	9 p.m.			7 a.m.	2 p.m.	9 p.m.	
1888.	o /	o /	o /		1888.	o /	o /	o /	
Nov. 7	15.0	33.0	32.0	Fine.	Jan. 5	6.0	27.0	29.0	Fine and bright sun.
do 8	28.5	40.0	37.0	do squally.	do 6	27.0	29.0	16.0	Cloudy.
do 9	29.5	42.0	26.0	do and bright.	do 7	9.0	24.0	8.0	Fine and bright sun.
do 10	30.0	39.8	38.0	Dull; cloudy.	do 8	12.0	0.0	10.0	do
do 11	39.5	43.0	35.0	do slight rain.	do 9	0.0	11.0	-2.0	do
do 12	33.0	28.0	22.0	Snow, 9 inches.	do 10	2.0	14.0	10.0	do
do 13	7.0	23.5	0.0	Fine.	do 11	5.5	12.5	4.5	Snow; cloudy.
do 14	-13.0	11.0	-5.0	Bright and fine.	do 12	-12.8	2.0	-13.0	Fine.
do 15	-9.0	11.0	-5.0	do	do 13	-23.0	-1.5	-12.0	do
do 16	-9.0	14.0	-1.0	do	do 14	-17.0	8.5	1.5	do
do 17	-8.5	20.0	8.5	do	do 15	-8.0	10.0	-5.0	do
do 18	-5.0	13.0	5.0	do	do 16	-7.0	14.0	6.0	do
do 19	7.0	29.0	31.0	Gloomy.	do 17	4.0	16.0	12.0	do
do 20	22.0	38.0	36.0	Fine.	do 18	-1.0	12.0	-3.0	do
do 21	12.5	35.0	25.0	do	do 19	1.0	20.0	19.0	do
do 22	25.0	36.0	24.0	do	do 20	20.5	26.0	21.0	do squally.
do 23	16.0	33.0	26.0	do	do 21	17.0	25.0	19.0	do do
do 24	18.5	31.0	34.5	Bright and fine.	do 22	7.0	26.0	24.0	do do
do 25	30.0	42.0	27.0	do	do 23	27.0	35.0	37.0	Cloudy and squally.
do 26	24.5	29.0	12.0	do	do 24	37.0	39.5	27.0	Overcast.
do 27	5.0	27.0	11.0	do	do 25	7.0	30.5	21.5	Fine and bright sun.
do 28	10.0	22.0	12.0	do	do 26	12.0	32.0	16.0	do
do 29	6.0	27.5	18.0	Snow; cloudy.	do 27	7.0	35.0	22.0	do
do 30	16.0	29.0	25.0	Fine.	do 28	14.0	38.5	24.0	do
Dec. 1	13.5	29.0	18.5	do	do 29	12.5	31.8	13.5	do
do 2	8.5	27.5	34.0	Dull and squally.	do 30	10.0	26.0	16.0	Fine.
do 3	33.0	44.0	42.5	Overcast; slight rain.	do 31	19.5	32.0	29.0	do
do 4	38.5	43.0	40.0	Cloudy and squally.	Feb. 1	26.5	35.5	30.5	do
do 5	28.2	41.0	34.0	do	do 2	29.0	38.5	31.0	Cloudy; squally.
do 6	25.5	34.0	25.5	Dull.	do 3	37.0	36.5	34.0	Snow.
do 7	14.5	26.0	32.0	do	do 4	14.0	22.0	25.0	Fine and bright sun.
do 8	37.0	43.0	36.0	do	do 5	7.0	35.0	18.0	do
do 9	17.0	22.0	10.0	Slight snow.	do 6	4.0	33.5	15.0	do
do 10	-4.0	12.0	17.5	Dull.	do 7	3.0	30.0	19.0	do
do 11	18.0	32.0	20.0	Fine and bright.	do 8	4.0	33.0	27.0	do
do 12	18.0	28.0	20.0	Slight snow; cloudy.	do 9	24.0	33.5	36.0	Fine.
do 13	27.0	40.0	39.0	Fine.	do 10	30.0	38.5	37.0	Cloudy.
do 14	29.0	40.0	28.5	do	do 11	21.0	40.5	38.0	do
do 15	24.0	33.5	26.0	do	do 12	41.5	35.0	29.0	Snow, 1½ inches.
do 16	15.0	26.0	28.0	do	do 13	15.0	27.5	8.0	Fine.
do 17	22.5	32.0	28.0	Fine and bright.	do 14	-5.0	15.5	9.0	Gloomy.
do 18	24.0	33.0	31.0	Fine, bright, squally.	do 15	2.0	9.0	-7.0	Overcast.
do 19	28.0	39.5	27.0	do	do 16	-24.0	4.0	-11.0	Fine and bright sun.
do 20									

## OBSERVATIONS of the Temperature at Banff, &amp;c.—Continued.

Date.	Thermometer.			Weather.	Date.	Thermometer.			Weather.
	7 a.m.	2 p.m.	9 p.m.			7 a.m.	2 p.m.	9 p.m.	
1889.	o /	o /	o /		1889.	o /	o /	o /	
Mar. 7	18.5	49.0	26.0	Fine and bright sun.	May 4	41.2	39.0	34.0	Overcast; heavy squalls
do 8	15.0	49.5	29.0	do	do 5	35.0	40.0	43.2	Cloudy.
do 9	14.5	44.0	29.0	do	do 6	33.0	35.0	33.2	Overcast; snow and rain.
do 10	27.0	32.5	27.0	Overcast.	do 7	32.2	58.8	38.0	Fine.
do 11	17.0	29.8	24.5	Fine.	do 8	31.8	61.5	52.5	Cloudy.
do 12	23.0	26.0	11.0	Snow.	do 9	33.8	68.5	51.0	Fine and bright.
do 13	1.0	10.0	1.0	do	do 10	34.0	69.0	53.2	do
do 14	2.0	12.5	3.0	Overcast.	do 11	33.0	74.8	35.0	do
do 15	-3.0	44.0	34.0	Fine and bright sun.	do 12	35.0	60.5	41.2	do rain in p.m.
do 16	27.0	46.0	37.5	do	do 13	41.2	46.5	39.2	Very gloomy.
do 17	23.0	47.0	42.0	do	do 14	37.5	44.0	36.0	do
do 18	33.0	41.5	30.0	do	do 15	33.8	40.0	37.5	Overcast; slight snow.
do 19	20.5	40.5	21.0	Cloudy.	do 16	29.8	58.5	39.2	Fine.
do 20	17.0	40.5	27.0	Fine.	do 17	28.3	62.5	46.0	do
do 21	21.0	45.0	40.0	Fine and bright sun.	do 18	36.0	49.5	42.0	Overcast; rain.
do 22	29.0	50.0	44.0	Gloomy.	do 19	39.5	61.0	62.2	Fine.
do 23	33.5	53.5	36.5	Fine.	do 20	29.8	71.0	51.0	do
do 24	36.0	46.0	38.0	Gloomy.	do 21	36.8	61.0	39.5	Cloudy; rain.
do 25	23.5	47.0	42.0	Fine; slight rain.	do 22	36.5	59.0	34.5	Fine; squally.
do 26	33.5	51.0	42.2	Fine.	do 23	29.8	61.0	51.0	do
do 27	24.0	54.5	34.0	do	do 24	35.0	60.5	54.0	do squally.
do 28	25.0	45.0	30.5	do	do 25	43.0	71.0	52.0	do
do 29	36.0	46.0	38.0	do	do 26	30.0	67.5	51.5	do
do 30	23.0	47.2	42.0	do	do 27	30.0	66.5	51.0	do
do 31	33.5	51.0	42.2	do squally.	do 28	46.5	70.0	56.5	Cloudy.
April 1	36.0	34.0	33.5	Overcast, slight snow.	do 29	46.0	75.0	54.0	do squally.
do 2	26.5	39.0	33.0	Snow, 3 inches.	do 30	44.0	50.8	47.5	do do rain.
do 3	30.0	49.5	38.0	Fine and bright.	June 1	27.0	71.0	51.0	Fine.
do 4	32.5	60.0	35.0	do	do 2	30.0	76.0	57.0	do
do 5	27.5	55.5	45.0	do Mosquitoes seen.	do 3	36.0	80.5	69.0	Fine; squally.
do 6	29.5	51.2	33.0	Snow gone. Fine and bright.	do 4	47.0	67.0	58.5	do
do 7	25.0	58.5	35.0	Butterflies seen.	do 5	46.5	54.5	49.0	do
do 8	27.5	62.0	43.2	Bright sunshine.	do 6	33.5	51.5	43.0	do
do 9	28.0	65.8	38.5	do	do 7	36.0	52.0	42.5	do
do 10	27.5	63.8	36.0	do Thermometer 82° in sun.	do 8	39.0	66.0	55.5	do heavy smoke.
do 11	26.0	57.0	47.0	Thermometer 100° in sun.	do 9	38.5	74.0	64.5	do do
do 12	32.0	49.5	40.0	Cloudy.	do 10	44.2	77.0	68.5	do do
do 13	31.0	39.0	34.0	do	do 11	45.5	72.0	48.5	do do
do 14	28.5	44.0	28.5	do squally.	do 12	47.0	50.0	38.0	Cloudy.
do 15	24.0	44.5	30.0	do	do 13	40.0	45.0	44.0	do
do 16	25.0	45.0	34.0	do	do 14	39.0	71.5	61.5	Fine.
do 17	29.0	46.0	40.0	do	do 15	45.5	71.0	58.5	Fine and smoke.
do 18	34.5	46.0	37.5	do	do 16	51.5	68.0	61.0	do
do 19	35.2	48.5	36.0	Fine and sunshine.	do 17	47.0	61.2	51.0	do
do 20	25.0	55.0	46.0	Fine.	do 18	49.0	60.0	51.0	Fine sky, obscured by smoke.
do 21	34.0	45.0	39.0	Cloudy; rain.	do 19	42.5	61.5	52.0	do
do 22	36.5	50.5	40.5	Fine.	do 20	40.0	60.5	52.5	do
do 23	30.2	56.0	45.0	do and clear.	do 21	43.0	73.0	61.0	do
do 24	43.0	56.5	48.0	do windy.	do 22	45.0	72.0	63.0	do
do 25	24.0	63.0	40.8	do	do 23	39.0	42.0	35.5	Cloudy; heavy squalls.
do 26	25.6	64.2	41.5	do	do 24	43.5	63.5	59.0	Fine.
do 27	33.5	66.5	50.0	do smoke from mountain fires.	do 25	46.0	74.5	55.0	do
do 28	29.0	63.0	47.0	do do slight rain	do 26	47.0	69.5	48.0	do
do 29	24.5	61.8	46.2	do do do	do 27	45.5	63.5	54.0	Cloudy.
do 30	27.0	68.5	52.0	Fine; smoke from forest fires.	do 28	43.0	56.0	49.0	do rain.
May 1	29.0	73.5	53.0	do do	do 29	46.5	58.0	46.5	do do
do 2	24.0	71.0	52.0	do do	do 30	46.0	61.0	48.0	do slight rain.
do 3	25.0	69.0	55.0	do do	July 1	44.0	69.0	58.5	Fine.
					do 2	46.0	73.5	56.0	do
					do 3	43.5	78.0	69.0	do
					do 4	48.0	74.0	46.5	Cloudy.

**OBSERVATIONS of the Temperature at Banff, &c.—Concluded.**

Temperature.					Weather.	Temperature.					Weather.
Date.	7 a.m.	2 p.m.	9 p.m.	Date.		7 a.m.	2 p.m.	9 p.m.			
1889.	o /	o /	o /		1889.	o /	o /	o /			
July 5	33.0	38.0	39.0	do rain.	Aug. 26	53.0	63.5	58.0	Cloudy; slight rain.		
do 6	45.5	58.5	37.0	do do	do 27	45.0	58.0	47.0	Heavy rain; squalls.		
do 7	35.0	38.0	37.5	Rain.	do 28	41.0	57.0	49.0	Cloudy.		
do 8	36.0	60.5	48.0	Fine.	do 29	49.5	69.0	64.0	Fine.		
do 9	41.0	75.0	61.0	do	do 30	48.0	75.5	64.0	Cloudy & heavy squalls.		
do 10	39.0	64.0	46.0	Cloudy.	do 31	39.0	59.0	34.0	Rain and snow.		
do 11	35.0	60.0	43.0	do rain.	Sept. 1	39.0	52.0	45.0	do		
do 12	35.5	69.0	37.5	Fine.	do 2	44.5	54.0	42.0	Rain.		
do 13	43.0	73.0	58.0	do thunder storm in p.m.	do 3	31.0	53.0	45.0	Cloudy.		
do 14	34.0	76.0	51.0	Fine.	do 10	25.0	38.0	27.0	Snow fell during night of 9th and all day—9 inches.		
do 15	46.0	67.0	52.0	Cloudy; thunderstorm.	do 11	26.0	36.0	30.5	Gloomy; snow.		
do 16	46.0	65.5	50.5	Fine.	do 12	23.0	37.0	27.5	Cloudy.		
do 17	45.5	73.0	56.5	do	do 13	21.5	38.0	30.0	Slight snow.		
do 18	46.0	67.0	52.0	do	do 14	22.0	39.0	32.0	Overcast; snow.		
do 19	43.5	75.5	55.0	do	do 15	39.0	50.5	41.0	Cloudy.		
do 20	44.0	57.0	52.5	Cloudy; rain.	do 16	37.0	59.0	52.0	Fine.		
do 21	48.0	62.0	50.0	do	do 17	36.0	69.0	62.0	do clear sky.		
do 22	35.0	73.0	59.0	Fine; thunder storm in p.m.	do 18	38.0	75.8	60.0	do do		
do 23	40.0	72.0	59.5	Fine.	do 19	39.0	76.0	61.0	do cloudy sky.		
do 24	41.0	75.0	61.0	do	do 24	31.0	55.0	41.0	Cloudy.		
do 25	46.0	76.5	69.0	do	do 25	36.0	68.0	51.5	Fine and clear.		
do 26	61.0	77.0	68.5	Fine; forest fires.	do 26	33.0	70.5	50.0	do		
do 27	46.5	76.0	56.0	do	do 27	36.0	71.0	56.0	do		
do 28	.....	.....	.....	.....	Oct. 3	48.0	59.0	49.0	Cloudy and squally.		
do 29	46.0	78.5	55.0	Fine smoke.	do 4	43.0	64.0	51.0	Fine and clear.		
do 30	43.0	60.0	36.6	Cloudy; rain, thunder and lightning.	do 5	41.0	73.0	61.0	do		
do 31	42.0	72.5	58.5	Fine; heavy smoke.	do 6	34.5	77.2	59.0	do		
Aug. 1	44.2	71.0	52.0	do do	do 7	33.0	74.0	60.0	do		
do 2	41.5	74.0	58.0	do do	do 8	30.0	67.0	53.0	do		
do 3	44.0	73.0	58.0	do do	do 9	31.0	63.0	45.0	do		
do 4	45.0	75.5	60.5	do do	do 10	45.0	55.0	44.0	do		
do 5	46.0	75.0	54.0	do do	do 11	40.0	51.5	43.0	Cloudy.		
do 6	40.0	58.0	55.0	Fine; 9° of frost during night.	do 12	39.5	58.0	46.0	Fine and clear.		
do 7	39.0	68.0	50.0	do	do 13	38.0	64.0	50.0	do		
do 8	39.0	76.0	51.0	do	do 14	41.0	65.0	48.2	do		
do 9	41.0	72.0	60.0	Smoke; heavy.	do 15	29.0	60.0	40.5	do		
do 10	40.0	70.0	53.0	do	do 16	34.0	58.0	43.5	do		
do 11	42.0	77.0	60.0	do	do 17	34.5	58.5	48.0	do		
do 12	41.0	73.0	53.0	do	do 18	30.0	48.0	37.0	Cloudy.		
do 13	41.0	76.0	63.0	do	do 19	30.0	47.2	39.0	Fine and clear.		
do 14	39.0	62.0	51.0	do	do 20	29.0	49.0	36.0	do		
do 15	41.5	74.8	61.0	Fine; heavy smoke.	do 21	31.0	44.0	32.0	do		
do 16	38.0	64.0	55.0	do	do 22	29.0	50.0	34.0	do		
do 17	36.0	60.5	52.0	do	do 23	33.5	57.0	33.0	do slight rain in p.m.		
do 18	43.0	73.0	51.5	do	do 24	33.0	52.0	41.0	Fine.		
do 19	35.0	62.0	51.0	do	do 25	34.0	44.0	46.0	Cloudy and squally.		
do 20	37.0	66.0	57.0	do	do 26	42.0	58.5	47.0	Fine and clear.		
do 21	35.0	75.5	54.0	do	do 27	44.0	56.8	45.5	Cloudy; rain; squalls.		
do 22	39.0	58.0	52.5	do	do 28	42.0	47.0	47.0	do		
do 23	43.0	65.0	52.0	do	do 29	29.5	40.0	40.0	Fine and clear.		
do 24	50.0	61.0	54.0	Fine.	do 30	28.0	38.0	30.0	do		
do 25	48.0	68.0	59.5	do	do 31	14.0	47.0	35.0	do and clear.		



---

PART VI.

---

REPORT OF THE FORESTRY COMMISSIONER.

---



---

**PART VI.**

---

**REPORT OF THE FORESTRY COMMISSIONER.**

---

ANDERDON, ONT., 31st December, 1889.

To the Honorable

EDGAR DEWDNEY, M.P.,

Minister of the Interior, Ottawa.

SIR,—I have the honor to report that during the past season successful efforts at the plantation of forest trees have been made on the Experimental Farm for the North-West Territories at Indian Head. Several fine varieties of elm, ash, maple, pine, locust, spruce, alder, birch and cedar have been cultivated with success. Mr. Mackay, the Superintendent, has also introduced from Brandon a large number of ash-leaved maples, and appears to be succeeding well in the cultivation of forest trees. At Brandon, Mr. Bedford, the Superintendent of the Experimental Farm there, has successfully engaged in forest tree culture, having planted out a large number of ash-leaved maples, and having also a nursery in which native ash, maple and basswood trees are being raised from the seed. These attempts are, however, on a small scale, and are only indications of what it might be possible to accomplish. Any other attempts at forest tree culture in the North-West are being left for the present to private enterprise. Their cultivation is being carried on in isolated cases with varying success by individual owners.

Professor Saunders, Director of Experimental Farms, has given much thought to the question of forest tree culture. He is trying various methods, with a view to solve the difficulties which are incident to the problem of tree planting in the North-West. He has experimented with seedlings purchased from nurserymen who cultivate the forest tree from seed, and also has planted out nurseries from seed. His experiments with the Riga pine, which is planted out in beds with seed imported from one of the Russian forests near Riga, bid fair to be highly successful. Should they prove so, it will be of inestimable advantage to the North-West.

The great difficulty which at present impedes the cultivation of large plantations of forest trees in Manitoba and the North-West is climatic. In early spring delightfully soft, balmy days, something like the maple sugar weather in Ontario and Quebec, awaken the young trees to life and cause the sap to run, and then suddenly a terrific blizzard from the north and north-west comes down and freezes up the sap and destroys the trees. Professor Saunders is now engaged in experiments with a view to overcoming this climatic obstacle. I have thought that by planting the young trees very closely together, or by sheltering them during their earlier seasons, as is done in the case of the seedlings at the Model Farm at Ottawa, this trouble might be gradually lessened, or willows or cotton wood might be planted with the young trees as a shelter belt protection for them against these early spring frosts and sudden and extreme changes of temperature. As yet, of course, we have no practical experience in the North-West on the subject, and can only base any action we may take upon knowledge obtained from what has been done in other countries with the same characteristics both of soil and climate. In the several Provinces of the Dominion and in the North-West the practical study of forestry can hardly be judged by what our people have done—for what have we done? Nothing but destroy.

I would respectfully recommend that an effort be made to arouse the interest of the Local Governments in the different Provinces to the importance of the question of forest tree plantation, and that they be asked to appoint commissioners to

co-operate with your commissioner in holding meetings and discussing this important question, as is done by forestry commissioners in the United States. The commission might meet at Winnipeg or Regina, and prepare, from the best available sources of information, a hand-book for the use of the farmers and settlers of Manitoba and the North-West. They should also evolve some plan which would meet with the approval and adoption, not only of the Dominion Government, but of the several Provinces, for re-plantation and plantation of forest trees on an extensive scale by the respective Governments in the Provinces and Territories.

I would suggest that in the meantime such an amount as you may deem consistent, considering the importance of the work to be done, be placed in the Estimates for the cultivation of forest tree plantations at different points in the North-West. I would suggest that these plantations be commenced, in the first instance, at the several stations of the North-West Mounted Police, and that that force be given the control and responsibility of their development and protection.

The great desert steppes of Russia have in large districts, by the action of the Government, been changed into extensive and valuable forests, which are now a source of revenue to the State. Towns have sprung up in their neighborhood, where fruit culture is carried on in consequence of the protection of these forests, and at points as far north as any existing settlements in the North-West.

The work to be done in the North-West is one of gradual and almost imperceptible growth; but it is one which, if properly done, and on an extensive scale, may be made a source of great future profit to the Dominion. The Government, the ranch companies, the land companies, the railway companies at all their several stations, and the people themselves, have all to do their share. But the Government must take the initiative, and the first step would be the establishment of these experimental forestry plantations, which I have suggested, at the different stations of the North-West Mounted Police. These stations would in time furnish not only a practical but a scientific school for the intelligent management of forests by means of knowledge derived from experiment and experience, and would give encouragement to settlers to cultivate smaller plantations on a smaller scale, each on his own farm.

In British Columbia the ravages by fire during the past year have been greater than any hitherto known, caused almost entirely by sparks from locomotives. On each side of the railroad track is a belt of felled timber which, on account of its extreme dryness, ignites easily and acts as a medium or train for conveying the fire to the forest. My reports from there estimate the loss during the year at over \$1,000,000. This could have been avoided had the smoke pipes of the engines been properly screened. On the other hand, it is satisfactory to be able to report that in many places which in former years had been swept by flames the forests are reproducing themselves.

One correspondent, a man thoroughly conversant with lumbering in all its branches, writes: "British Columbia contains more timber to the square mile than any country in the world, and with careful management would yield an unlimited supply for all time." None but the mature trees should be cut. The growing trees would mature more rapidly and young seedlings spring into life. This applies more particularly to the interior and eastern slopes of British Columbia than to the vicinity of the coast, where rains are much more frequent and the atmosphere humid. Owing to the mountainous character of the country, the total denudation of hills by the axe would be ruinous to the land, as the heavy rains which always follow a protracted drought would wash down all the soil, leaving only bare and rugged rocks.

The forests which cover the head waters of all rivers that originate in the mountains should be carefully protected from destruction. If not, the accumulated snows of winter, under the influence of the Chinook winds, the hot sun and spring rains, will melt rapidly, causing disastrous floods at one season of the year, while at others the volume of water will be so reduced as to materially lessen the availability of the river for navigation or other purposes. At the recent Congress of the

American Forestry Association held at Philadelphia, the Hon. Carl Schurz gave particular emphasis to the paramount necessity of guarding the forests that guard the rivers: "There is a mountain region in the far north-west which demands the earliest possible attention of our national authorities. It is the great area of mountain forest covering the head waters of the Missouri and the Columbia. The Government cannot too soon take effective steps to protect these forests, which are the most important in the United States, against destruction, by making them permanent reservations and having them carefully guarded." These warning words of the venerable statesman speak with equal meaning to us. The Fraser and many other Canadian rivers are exposed to the danger that threatens the Missouri and the Columbia.

The absence of trees on the plains and prairies is keenly felt by settlers, and they are looking forward hopefully to the establishment of the forestal experimental stations. The Government would find it to its own interest to establish them in the neighborhood of the Mounted Police stations, where young trees could be obtained at a nominal price, or for nothing. It would also be well to encourage tree planting by offering premiums for the best groves or groups of trees. But mere tree planting will never meet the requirements of the North-West. Large tracts must be planted and maintained in order to promote industrial and climatic advantages; and till something in this respect is done the advance in the settlement of the country will not be what we could hope for or expect in a country otherwise so richly endowed. The Government has been bountiful in promoting almost all other enterprises. The forests alone have had no helping hand, although they have hitherto been one of our greatest sources of wealth.

I have referred to the benefits that accrued from the planting of forests on the great steppes of north-eastern Russia. These steppes, like our western plains, were deemed inhospitable and worthless. They now support a numerous and well-to-do population, with large towns and villages exporting largely of fruits, cereals, &c. In order to achieve a success equal to that which crowned the efforts of Russia on the great steppes, we must have trained and experienced foresters. To originate, conserve and manage such forests so as to make them profitable, requires a thorough practical knowledge of, as well as technical skill in, forestry, and these can only be acquired in schools of forestry. When the Government of India awoke to the great necessity of conserving and renewing the forests, some seventy-five young Englishmen were sent by the Secretary of State for India to be educated at the forestry schools of France and Germany. Sir D. Brand, F.R.S., &c., &c., late Inspector General of Forests to the Government of India, in his report, 1888, dwells at considerable length on the absolute necessity of having thoroughly trained officers; and it was at his request that the Government of India utilized the forestry schools of France and Germany for the training of young men for the Indian Forest Service. Our wants are not so pressing as those of India, and it is not likely that any students will in the near future be sent abroad to study. The expense that would necessarily occur would be the greatest objection. But could not something be done at home? Could not forestry classes be attached to our Military School at Kingston and our Universities? We now expend large sums of money for propagation of fish, for harbor protection and improvements, and many other things that are of no greater moment nor of more pressing necessity than forest culture on the great plains of the North-West. In Europe, particularly in Germany, where education in forestry has attained the highest standard, opinion inclines towards uniting the forestry schools with the Universities. Recently the Wurtemberg Forest Academy was removed from Hohenheim to the University of Tubingen, and the Bavarian Academy to the University of Munich. It may be worthy of note here that at these German Forestry Academies there are several Japanese students. At the Royal Forest Academies at Tharandt, in Saxony, three of these students, very able men, are pursuing their studies in the theory and practice of forest culture.

In Prussia there are three grades of forest schools. The first two are preparatory, where pupils from 12 to 17 years of age receive an elementary education and

practical instruction under the direction of a forester. There are two academies under the Department of the Minister of Agriculture. The term of study is two years, and the course embraces—Physics, including Meteorology and Mechanics; Chemistry, organic and inorganic; Mineralogy, Geognosy and Geology; Botany in all its phases; Zoology; Mathematics; general Political Economy; History and literature of forest affairs; Forest planting and preservation; Forest technology; Forest valuation; Wood measuring, survey and statistics; Forest administration; Jurisprudence; Prussian civil and penal code; Forest road construction; Game laws. A student, before he is admitted to these academies, must have a certificate that he has graduated at a Prussian technical school of the forest class, must have a good character, and be possessed of the necessary means to pursue his studies.

The only forest academy in France is at Nancy. It was founded in 1824. At first it was an establishment of minor consideration, but great progress has taken place during the last sixty-five years, and it is at present in a high state of efficiency. The Director, the Inspector General of Forests, is aided by a staff of twelve professors. Admission to this school is obtained by competition. Candidates must be between the ages of 18 and 22 years. They must be in sound health, and hold certificates showing that they have completed their course of general studies at the Lycee (High School). The subjects in which they are required to pass at the entrance examination are as follows, viz.:—Arithmetic, elementary geometry, algebra, trigonometry, analytical geometry, descriptive geometry, natural philosophy, organic and inorganic chemistry, cosmography, mechanics, the German language, history, geography and plain drawing. The number of candidates admitted annually is about 18, and the course of study extends over two years. The time of study in each year comprises six and one-half months of theoretical and two and one-half months of practical instruction—one month being devoted to examination and two months to vacation. The school is well equipped in every way. The buildings are very extensive. There is a spacious amphitheatre, halls of study, a recreation room and an infirmary. The museum is very complete, and there is an excellent professional library containing about 4,000 volumes. There is also a complete chemical laboratory. Both Frenchmen and foreigners can obtain permission to follow the courses of the school as free students, without the payment of any fees. Among the free students who received education there were 73 Englishmen who had been sent there by the Secretary of State for India to be trained for the Indian forestry service under a special arrangement with the French Government. Ordinarily, the free students merely attend the lectures, and are not examined; but the English students have to pass all the examinations. There is a secondary or primary school at Barres, to prepare men for subordinate positions in the forest service.

Austria and Russia have each a free system of forestry education.

In Australia the Forestry Department, under the efficient management of John Ednie Brown, F.L.S., Conservator of Forests, is doing good work, and the results thus far are very gratifying.

In conclusion, permit me respectfully to contrast what is being done in the Dominion and its several Provinces with what is being done in the rest of the civilized world. In the United States the Federal Government keeps up a permanent forestry staff; and the several States, particularly the prairie States, are expending large sums annually in forestry plantations. Australia, though a much younger country than ours, is earnestly at work looking after the re-plantation and preservation of her forests. All the great countries of the continent of Europe have thoroughly systematized the science of forestry, and in each of them it has become a source of considerable revenue to the State. In Canada alone the outlook is discouraging. In the older Provinces of the Dominion the destruction of our forests by fire and by the axe goes on with unabated fury and with painful disregard of the inevitable consequences in the near future. The chief sinners in this respect are the Provinces of New Brunswick, Quebec and Ontario. I would earnestly recommend that steps be taken to impress upon the people of the several Provinces the evil consequences which the destruction of the forests has wrought in other countries, and which,

---

in some cases, succeeding generations have striven in vain to repair. With us the greed of some and the indifference of all are tending to a similar result; and it is full time that the Dominion Government should sound the note of warning to the Provinces, and take vigorous action in the Territories which are under its immediate control.

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

J. H. MORGAN,  
*Forestry Commissioner.*

---

PART VII.

---

REPORT OF HALF-BREED COMMISSION.

---





## PART VII.

## REPORT OF HALF-BREED COMMISSION.

OTTAWA, 1st May, 1889.

To the Honorable  
The Minister of the Interior,  
Ottawa.

SIR,—I have the honor to report that immediately upon the completion, at Montreal Lake, on the 11th of February last, of the necessary negotiations which Lieutenant-Colonel Irvine and myself were authorized, by Order in Council of the 29th of November, 1888, to make with the different bands of Indians whose hunting grounds are situated in that portion of the North-West Territories lying between the northern boundary of Treaty No. 6 and the northern boundary of the Provisional District of Saskatchewan, and bounded on the east and west by the limits of the timber and land district of Prince Albert, for the surrender by the said Indians of the tract above described, I received, pursuant to the instructions to that effect contained in Departmental letter of the 18th of December last (Ref. 193515 on 138557), applications from Half-breeds to share in the grant of scrip authorized by sub-clause "F" of clause 90 Dominion Lands Act; and, under the powers vested in me by an Order in Council passed on the 14th of December, 1888, I issued scrip certificates to such of the applicants as established to my satisfaction that they were entitled thereto.

At Montreal Lake, which place I left on the 14th of February to return to Prince Albert, I received thirty-six applications, twenty-two of which were made by the legal representatives of deceased Half-breeds, and I issued scrip certificates as follows:—

Form A, 2 Certificates of \$160 each.....	\$320 00
do A, 12 do of \$240 " .....	2,880 00
do B, 37 do amounting to.....	3,144 44
<u>A and B, 51 do amounting to.....</u>	<u>\$6,344 44</u>

At Red Deer Lake one claim was presented which was allowed. In satisfaction thereof I issued a certificate on the Form A for \$240.

Prince Albert was reached on the 18th of February, at which place I remained until the 27th of the same month, when I started out for Green Lake, accompanied by Mr. A. J. McNeill, of the Duck Lake Indian Agency, and arrived at my destination on the 4th of March.

I granted at Green Lake and at the various points on the way thither, scrip certificates to such Half-breeds as had submitted the necessary evidence before the North-West Half-breed Commission in 1887, but whose claims were then reserved, as the claimants were residents on the 15th July, 1870, outside those portions of the Territories which have since been ceded by the Indians under treaty with the Government of Canada.

This was done under the authority above quoted, and in obedience to the further instructions contained in your telegram of the 25th of February, 1889, which reads as follows: "It has been decided to grant scrip to all Half-breeds who submitted satisfactory evidence in support of their claims, notwithstanding their residence in unceded territory at transfer. You may now proceed to Green Lake and deal with all those

cases in relation to which you have the evidence in your own possession. Remainder will be dealt with from Department direct."

Of these claims seven heads of families and sixteen children, to whom I issued scrip certificates in satisfaction of their claims, to the value of \$4,960, were residing on the 15th July, 1870, within the tract recently surrendered by the Indians; and seven heads of families and fifteen children, to whom I also issued scrip certificates, amounting to \$4,720, were dealt with under the authority given me in your telegram of the 25th of February last, above referred to, which action has since been confirmed by Order in Council. (*See Order in Council of 18th March, 1889*).

I also received five new applications—two at Green Lake and three at Sandy Lake—two of which I reserved, as the claimants were living on the 15th July, 1870, in territory which has not yet been ceded by the Indians.

In satisfaction of these claims, twelve of which were preferred by persons who were previously in receipt of Indian annuities, I issued the following scrip certificates:—

Form A, 16 Certificates, \$160 each .....	\$2,560 00
do A, 27 do 240 do .....	6,480 00
do B, 4 do 240 do .....	960 00
<hr/>	
A and B, 47 do amounting to.....	<u>\$10,000 00</u>

I left Green Lake on the 6th of March to again return to Prince Albert, which latter place I reached on the 10th of that month, and on the 16th of the same month I proceeded to Winnipeg, where I arrived on the 27th of March, having stopped, *en route*, at St. Laurent and Batoche.

In compliance with the request contained in your message of the 26th of March, 1889, I left Winnipeg for Ottawa on the 2nd of April, arriving here on the 5th.

At Prince Albert I issued the following scrip certificates:—

Form A, 2 Certificates of \$240 each.....	\$ 480 00
do B, 14 do amounting to.....	1,223 32
<hr/>	
A and B 16 do do .....	<u>\$1,703 32</u>

The two certificates on the form A, last referred to, were issued in satisfaction claims which were reserved by the Commission in 1887, because the claimants were residing at the transfer in that portion of the Territories recently ceded by the Indians.

At Batoche one scrip certificate was issued on the form B for \$80.

Recapitulation of scrip certificates issued on the forms A and B:—

Form A, 60 Certificates, amounting to.....	\$12,960 00
do B, 56 do do .....	5,407 72
<hr/>	
A and B 116 do do .....	<u>\$18,367 72</u>

I received altogether evidence in support of fifty-six new claims:—

At Montreal Lake.....	36
Red Deer Lake.....	1
Green Lake.....	2
Shell River.....	3
Sandy Lake.....	2
Prince Albert.....	10
Batoche.....	2
<hr/>	
Total.....	<u>56</u>

The nature of these claims may be classified as follows :—

Claims allowed of Half-breed heads of families.....	4
Claims allowed of children of Half-breed heads of families.....	14
Claims allowed of legal representatives of deceased Half-breed heads of families.....	16
Claims allowed of legal representatives of deceased children of Half-breed heads of families.....	18
Claims reserved, as claimants were residents on 15th July, 1870, of those portions of the Territories which have not yet been ceded by the Indians under treaty.....	2
Claims requiring further evidence.....	1
Claims disallowed, as claimants were residents on the 15th July, 1870, of the United States of America.....	1
Total.....	<u>56</u>

The fifty-six applications above referred to, which are herewith enclosed, have all been entered, and the decision arrived at in each case has been recorded in the register of the North-West Half-breed Commission.

The applications which were reserved at Green Lake in October, 1887, by the North-West Half-breed Commission, and which accompanied Departmental letter of the 18th of December last, are also herewith enclosed, as well as the scrip certificate books referred to therein, and the application which was forwarded to me at Prince Albert under cover of letter of the 24th of January last. (Ref. 196342 on 167747).

To each of these applications, where a certificate for scrip has been issued in satisfaction thereof, a duplicate of such scrip certificate has been attached, and a remark to that effect has been made opposite the respective claim numbers in the register of the North-West Half-breed Commission.

Five of the claimants, whose applications also accompanied Departmental letter of the 18th December last, already referred to, were absent when I visited the North, and scrip certificates were not, therefore, issued by me in satisfaction of their claims.

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

R. GOULET.  
*Commissioner.*

---

PART VIII.

---

EXPLORATORY SURVEY

OF PART OF THE

LEWES, TAT-ON-DUC, PORCUPINE, BELL, TROUT, PEEL, AND MACKENZIE RIVERS.

BY

WILLIAM OGILVIE, D.L.S.

1887-88.

---



---

EXPLORATORY SURVEY OF PART OF THE LEWES, TAT-ON-DUC,  
PORCUPINE, BELL, TROUT, PEEL, AND MACKENZIE RIVERS.

---

To the Honorable  
The Minister of the Interior,  
Ottawa.

OTTAWA, 16th July, 1889.

SIR,—I have the honor to submit the following report of my operations on the Lewes or Yukon River, in the season of 1887 (of which a preliminary sketch was published in the Annual Departmental Report for that year), and on the Tat-on-Duc, Porcupine, Bell, Trout, Peel and Mackenzie Rivers during the season of 1888.

I left Ottawa on the 20th of April, 1887, for Toronto, where I remained two days doing some preparatory work in the magnetic observatory having relation to the magnetic observations which I intended to make during the progress of my expedition, and also supervising some changes and repairs of instruments, the chief object of which was to lessen their weight, and thus facilitate progress.

I had to stop one day in Winnipeg, to obtain an astronomical transit (F. O. 2). On the evening of the 2nd of May I reached Victoria, B. C., where I at once set about making the necessary preparations to start by the boat, which was advertised to leave on the 9th. The vessel did not arrive, however, until the 12th. I then found that she was much overloaded, and it was with some difficulty that I got Capt. Hunter to consent to take my outfit, which weighed in all about six tons, and, under the circumstances, it was a real act of kindness on his part to do so.

Owing to the heavy load, we made slow progress, and it was not until the 18th of May that we reached Fort Wrangell, at the mouth of the Stikine River. Here I parted from Dr. Dawson, whom I arranged to meet at the confluence of the Pelly and Lewes or Yukon River about the 20th of July following. We arrived at Juneau City on the evening of the 19th, remaining there and at Douglass Island until the evening of the 20th. At Douglass Island I had an opportunity of visiting the celebrated Treadwell gold mine and reduction works, containing one hundred and twenty stamps, which have since been doubled in number. The output of this mine, with the smaller number of stamps, was generally estimated at about \$70,000 per month, but no one seemed to know the exact amount.

As the boat was now much behind time she went direct to Sitka, instead of Chilkoot, as usual; thence in succession to Sitka, Killisnoo, Chilkat, and Chilkoot, where I landed on the morning of the 24th of May, and where my work began.

The first news I received on landing was that there was trouble in the interior, on the Lewes River, in the vicinity where I intended to go. A miner, who had recently arrived from the interior, stated that there had been a fight between the Indians and the miners at the mouth of Stewart River. The result of the affair, he alleged, was that four Indians and two white men had been killed, and that the Indians had come up the river as far as the cañon to lie in wait for any white men who might be going into the country. I did not have an opportunity of questioning him, as he had gone to Juneau City the day before I arrived. The rumor seemed to me somewhat improbable; but true or false, it was an unpleasant one to hear, and the only way to verify it was to go and see whether the Indians were hostile or not. Happily the whole story proved to be untrue, as I subsequently learned from the miners in the interior that he had difficulties with them, in consequence of which he was ordered in mid-winter to leave the region, which the miners consider equivalent to a sentence of death. Strange to say, he succeeded in getting out alive, making a distance of upwards of 500 miles of the most dangerous and difficult travelling. He started in the

month of February, I think, and reached the coast in the month of May. It is reported that on his way out he had more trouble with an Indian whom he hired to accompany him. Another miner named Williams started from Stewart River for the coast in the month of December, carrying a message from Harper, McQuestion & Co., and mail from the miners. This man had the advantage at intervals of the assistance of the miners, a few of whom were scattered along the river in the vicinity of the 'Teslin-too (the Newberry of Schwatka). At the summit of the coast range he was detained by a snow storm for three days, and the hardships he suffered brought on pneumonia, from the effects of which he died.

It is said by those familiar with the locality that the storms which rage in the upper altitudes of the coast range, during the greater part of the time from October to March, are terrific. A man caught in one of them runs the risk of losing his life, unless he can reach shelter in a short time. During the summer there is nearly always a wind blowing from the sea, up Chatham Strait and Lynn Channel, which lie in almost a straight line with each other, and at the head of Lynn Channel are Chilkat and Chilkoot inlets. The distance from the coast down these channels to the open sea is about 380 miles. The mountains on each side of the water confine the currents of air, and deflect inclined currents in the direction of the axis of the channel, so that there is nearly always a strong wind blowing up the channel. Coming from the sea, this wind is heavily charged with moisture, which is precipitated when the air current strikes the mountains, and the fall of rain and snow is consequently very heavy.

In Chilkat Inlet there is not much shelter from the south wind, which renders it unsafe for ships calling there. Capt. Hunter told me he would rather visit any other part of the coast than Chilkat.

After landing at Chilkoot the weather continued very wet for three days, so that I could not do anything in the way of commencing the survey, and during the delay myself and party were employed in making preparations for carrying the instruments, provisions and other baggage up to the head of Taiya Inlet, a distance of 20½ miles. This was accomplished by securing the services of two boats belonging to a trader, which were towed to the head of the Taiya Inlet by the United States gunboat, "Pinta," to the commander of which (Capt. Newell) I owe a debt of gratitude for his very obliging and attentive treatment of myself and party.

#### SECTION I.

*EXPLORATORY SURVEY from the Head of Taiya Inlet, through Taiya Pass, and down the Pelly-Yukon River to the International Boundary between Alaska and the North-West Territories of Canada.*

On the 30th of May I commenced the survey by connecting Pyramid Island in Chilkat Inlet with Chilkoot Inlet at Haines mission. At this point a Protestant mission was established some years ago; but it is now abandoned, owing, as I was informed, to the very unpleasant conduct of the Chilkoot Indians. I could not learn that they had committed any overt act of hostility, but it appears the missionary tried to relieve the sufferings of a sick Indian child. Unfortunately, the child died, and the father attributed the death to the missionary, and from that time acted in so suspicious a manner towards the children of the latter that he considered it unsafe to remain in the vicinity, and moved into Juneau City.

The teacher of the United States Government school for Indians at Haines mission, Col. Ripinsky, told me he had got into trouble in the same way. A sick Indian to whom he administered medicine at first became much worse, in consequence, apparently, of the treatment, and during this time the patient's relatives walked about in an excited manner, manifesting very unpleasant signs of hostility. Fortunately the man finally recovered, but Col. Ripinsky has no doubt that his life would not have been safe had he died.

The latitude and longitude of Pyramid Island were determined in 1869 by a United States Coast Survey party, who were sent out to observe the eclipse of the sun



in the month of August of that year. The position then determined is given in the "Alaska Coast Pilot" as latitude  $59^{\circ} 11' 43'' \cdot 0$ , longitude  $135^{\circ} 27' 04'' \cdot 5$ . The longitude was determined by chronometers, thirteen having been used by the expedition. What point of the island was fixed I could not ascertain, so I took the centre. This island is pyramidal in form, as seen from the south-west or north-east, and about 500 yards long by 200 wide. It is composed of sand and clay, and rises about 80 feet above high tide, being evidently the result of glacial action. At low tide there is very little water on the north side of the island, and it is only a question of a few years until it will cease to be an island altogether, owing to the constant accumulation of drift brought down by the streams flowing into the inlet.

To carry the survey from the island across to Chilkoot Inlet I had to get up on the mountains north of Haines mission, and from there could see both inlets. Owing to the bad weather I could get no observation for azimuth, and had to produce the survey from Pyramid Island to Taiya Inlet by reading the angles of deflection between the courses. At Taiya Inlet I got my first observation, and deduced the azimuth of my courses up that point. Taiya Inlet has evidently been the valley of a glacier; its sides are steep and smooth from glacial action; and this, with the wind almost constantly blowing landward, renders getting upon the shore difficult. Some long sights were therefore necessary. The survey was made up to the head of the inlet on the 2nd of June. Preparations were then commenced for taking the supplies and instruments over the coast range of mountains to the head of Lake Lyndeman on the Lewes River. Commander Newell kindly aided me in making arrangements with the Indians, and did all he could to induce them to be reasonable in their demands. This, however, neither he nor any one else could accomplish. They refused to carry to the lake for less than \$20 per hundred pounds, and as they had learned that the expedition was an English one, the second chief of the Chilkoot Indians recalled some memories of an old quarrel which the tribe had with the English many years ago, in which an uncle of his was killed, and he thought we should pay for the loss of his uncle by being charged an exorbitant price for our packing, of which he had the sole control. Commander Newell told him I had a permit from the Great Father at Washington to pass through his country safely, that he would see that I did so, and if the Indians interfered with me they would be punished for doing so. After much talk they consented to carry our stuff to the summit of the mountain for \$10 per hundred pounds. This is about two-thirds of the whole distance, includes all the climbing and all the woods, and is by far the most difficult part of the way.

On the 6th of June 120 Indians, men, women, and children, started for the summit. I sent two of my party with them to see the goods delivered at the place agreed upon. Each carrier when given a pack also got a ticket, on which was inscribed the contents of the pack, its weight, and the amount the individual was to get for carrying it. They were made to understand that they had to produce these tickets on delivering their packs, but were not told for what reason. As each pack was delivered one of my men receipted the ticket and returned it. The Indians did not seem to understand the import of this; a few of them pretended to have lost their tickets; and as they could not get paid without them, my assistant, who had duplicates of every ticket, furnished them with receipted copies after examining their packs.

While they were packing to the summit I was producing the survey, and I met them on their return at the foot of the canon, about eight miles from the coast, where I paid them. They came to the camp in the early morning before I was up, and for about two hours there was quite a hubbub. When paying them I tried to get their names, but very few of them would give any Indian name, nearly all, after a little reflection, giving some common English name. My list contained little else than Jack, Tom, Joe, Charley, &c., some of which were duplicated three and four times. I then found why some of them had pretended to lose their tickets at the summit. Three or four who had thus acted presented themselves twice for payment, producing first the receipted ticket, afterwards the one they claimed to have lost,

demanding pay for both. They were much taken aback when they found that their duplicity had been discovered.

These Indians are perfectly heartless. They will not render even the smallest aid to each other without payment; and if not to each other, much less to a white man. I got one of them, whom I had previously assisted with his pack, to take me and two of my party over a small creek in his canoe. After putting us across he asked for money, and I gave him half a dollar. Another man stepped up and demanded pay, stating that the canoe was his. To see what the result would be, I gave to him the same amount as to the first. Immediately there were three or four more claimants for the canoe. I dismissed them with a blessing, and made up my mind that I would wade the next creek.

While paying them I was a little apprehensive of trouble, for they insisted on crowding into my tent, and for myself and the four men who were with me to have attempted to eject them would have been to invite trouble. I am strongly of the opinion that these Indians would have been much more difficult to deal with if they had not known that Commander Newell remained in the inlet to see that I got through without accident.

While making the survey from the head of tide water I took the azimuths and altitudes of several of the highest peaks around the head of the inlet, in order to locate them, and obtain an idea of the general height of the peaks in the coast range. As it does not appear to have been done before, I have taken the opportunity of naming all the peaks, the positions of which I fixed in the above way. The names and altitudes appear on my map.

While going up from the head of canoe navigation on the Taiya River I took the angles of elevation of each station from the preceding one. I would have done this from tide water up, but found many of the courses so short and with so little increase in height that with the instrument I had it was inappreciable. From these angles I have computed the height of the summit of the Taiya Pass, above the head of canoe navigation, as it appeared to me in June, 1887, and find it to be 3,378 feet. What depth of snow there was I cannot say. The head of canoe navigation I estimate at about 120 feet above tide water. Dr. Dawson gives it as 124 feet.

While going over the range the first time I made frequent readings of the mercurial barometer, and left the instrument at the summit for several days, taking readings of it as often as possible. At the same time I took corresponding readings of my aneroid. These readings will be found in the appendix to this report, and from them it will be seen that this particular aneroid is almost as reliable as the mercurial barometer as far as the altitudes reached would show.

I determined the descent from the summit to Lake Lyndeman by carrying the aneroid from the lake to the summit and back again, the interval of time from start to return being about eight hours. Taking the mean of the readings at the lake, start and return, and the single reading at the summit, the height of the summit above the lake was found to be 1,237 feet. While making the survey from the summit down to the lake I took the angles of depression of each station from the preceding one, and from these angles I deduced the difference of height, which I found to be 1,354 feet, or 114 feet more than that found by the aneroid. This is quite a large difference; but when we consider the altitude of the place, the sudden changes of temperature, and the atmospheric conditions, it is not more than one might expect.

While at Juneau City I heard reports of a low pass from the head of Chilkoot Inlet to the head waters of Lewes River. During the time I was at the head of Taiya Inlet I made inquiries regarding it, and found that there was such a pass, but could learn nothing definite about it from either whites or Indians. As Capt. Moore, who accompanied me, was very anxious to go through it, and as the reports of the Taiya Pass indicated that no waggon road or railroad could ever be built through it, while the new pass appeared, from what little knowledge I could get of it, to be much lower, and possibly feasible for a waggon road, I determined to send the captain by that way, if I could get an Indian to accompany him. This, I found, would be difficult to

do. None of the Chilkoots appeared to know anything of the pass, and I concluded that they wished to keep its existence and condition a secret. The Tagish, or Stick Indians, as the interior Indians are locally called, are afraid to do anything in opposition to the wishes of the Chilkoots; so it was difficult to get any of them to join Capt. Moore; but after much talk and encouragement from the whites around, one of them named "Jim" was induced to go. He had been through this pass before, and proved reliable and useful. The information obtained from Capt. Moore's exploration I have incorporated in my plan of the survey from Taiya Inlet, but it is not as complete as I would have liked. I have named this pass "White Pass," in honor of the late Hon. Thos. White, Minister of the Interior, under whose authority the expedition was organized. Commencing at Taiya Inlet, about two miles south of its north end, it follows up the valley of the Shkagway River to its source, and thence down the valley of another river which Capt. Moore reported to empty into the Takone or Windy Arm of Bove Lake (Schwatka). Dr. Dawson says this stream empties into Tako Lake, and in that event Capt. Moore is mistaken. Capt. Moore did not go all the way through to the lake, but assumed from reports he heard from the miners and others that the stream flowed into Windy Arm, and this also was the idea of the Indian "Jim," from what I could gather from his remarks in broken English and Chinook. Captain Moore estimates the distance from tide water to the summit at about 18 miles, and from the summit to the lake at about 22 to 23 miles. He reports the pass as thickly timbered all the way through.

The timber line on the south side of the Taiya Pass, as determined by barometer readings, is about 2,300 feet above the sea, while on the north side it is about 1,000 feet below the summit. This large difference is due, I think, to the different conditions in the two places. On the south side the valley is narrow and deep, and the sun cannot produce its full effect. The snow also is much deeper there, owing to the quantity which drifts in from the surrounding mountains. On the north side the surface is sloping, and more exposed to the sun's rays. On the south side the timber is of the class peculiar to the coast, and on the north that peculiar to the interior. The latter would grow at a greater altitude than the coast timber. It is possible that the summit of White Pass is not higher than the timber line on the north of the Taiya Pass, or about 2,500 feet above tide water, and it is possibly even lower than this, as the timber in a valley such as the White Pass would hardly live at the same altitude as on the open slope on the north side.

Capt. Moore has had considerable experience in building roads in mountainous countries. He considers that this would be an easy route for a waggon road compared with some roads he has seen in British Columbia. Assuming his distances to be correct, and the height of the pass to be probably about correctly indicated, the grades would not be very steep, and a railroad could easily be carried through if necessary.

After completing the survey down to the lake I set about getting my baggage down, too. Of all the Indians who came to the summit with packs, only four or five could be induced to remain and pack down to the lake, although I was paying them at the rate of \$4 per hundred pounds. After one trip down, only two men remained, and they only in hopes of stealing something. One of them appropriated a pair of boots, and was much surprised to find that he had to pay for them on being settled with. I could not blame them much for not caring to work, as the weather was very disagreeable; it rained or snowed almost continuously. After the Indians left I tried to get down the stuff with the aid of my own men, but it was slavish and unhealthy labour, and after the first trip one of them was laid up with what appeared to be inflammatory rheumatism. The first time the party crossed the sun was shining brightly, and this brought on snow blindness, the pain of which only those who have suffered from this complaint can realize. I had two sleds with me which were made in Juneau City specially for the work of getting over the mountains and down the lakes on the ice. With these I succeeded in bringing about a ton and a-half to the lakes, but I found that the time it would take to get it all down in this way would seriously interfere with the programme arranged with Dr. Dawson, to say nothing

of the suffering of the men and myself, and the liability to sickness which protracted physical exertion under such uncomfortable conditions and continued suffering from snow blindness expose us to. I had with me a white man who lived at the head of the inlet with a Tagish Indian woman. This man had a good deal of influence with the Tagish tribe, of whom the greater number were then in the neighbourhood where he resided trying to get some odd jobs of work, and I sent him to the head of the inlet to try and induce the Tagish Indians to undertake the transportation, offering them \$5 per hundred pounds. In the meantime Capt. Moore and the Indian "Jim" had rejoined me. I had their assistance for a day or two, and "Jim's" presence aided indirectly in inducing the Indians to come to my relief.

The Tagish are little more than slaves to the more powerful coast tribes, and are in constant dread of offending them in any way. One of the privileges which the coast tribes claim is the exclusive right to all work on the coast or in its vicinity, and the Tagish are afraid to dispute this claim. When my white man asked the Tagish to come over and pack they objected on the grounds mentioned. After considerable ridicule of their cowardice, and explanation of the fact that they had the exclusive right to all work in their own country, the country on the north side of the coast range being admitted by the coast Indians to belong to the Tagish tribe, just as the coast tribes had the privilege of doing all the work on the coast side of the mountains, and that one of their number was already working with me unmolested, and likely to continue so, nine of them came over, and in fear and trembling began to pack down to the lake. After they were at work for a few days some of the Chilkoots came out and also started to work. Soon I had quite a number at work and was getting my stuff down quite fast. But this good fortune was not to continue. Owing to the prevailing wet, cold weather on the mountains, and the difficulty of getting through the soft wet snow, the Indians soon began to quit work for a day or two at a time, and to gamble with one another for the wages already earned. Many of them wanted to be paid in full, but this I positively refused, knowing that to do so was to have them all apply for their earnings and leave me until necessity compelled them to go to work again. I once for all made them distinctly understand that I would not pay any of them until the whole of the stuff was down. As many of them had already earned from twelve to fifteen dollars each, to lose which was a serious matter to them, they reluctantly resumed work and kept at it until all was delivered. This done, I paid them off, and set about getting my outfit across the lake, which I did with my own party and the two Peterborough canoes which I had with me.

A word or two about these canoes may not be out of place. They were made by the Ontario Canoe Company, of Peterborough. Both were of special make and somewhat outside of the company's usual style of build. One was 18 feet long, the other 19—both 40 inch beam and 18 inches deep. They were built of basswood, the bottom planks being  $\frac{3}{8}$  inch thick and the sides  $\frac{1}{4}$  inch. They were extra strong, and higher at the bow and stern than the usual make. When dry they weighed about 140 pounds each, so that two men could without much difficulty carry them. They would each hold two men and 1,400 pounds without being at all overloaded, and could with ease be then driven 4 to  $4\frac{1}{2}$  miles per hour. I had them furnished with movable canvas decks, which could be fitted on, and made the canoe almost water-tight. These two canoes travelled about 3,000 miles by rail and about 1,000 miles by steamship before being brought into service. They did considerable work on Chilkoot and Taiya Inlets, and were then packed over to the head of Lewes River (Lake Lyndeman), from where they were used in making the survey of Lewes River. In this work they made about 650 landings. They were then transported on sleighs from the boundary on Lewes River to navigable water on the Porcupine.

In the spring of 1888 they descended the latter, heavily loaded, and through much rough water, to the mouth of Bell's River, and up it to McDougall's Pass. They were then carried over the pass to Poplar River and were used in going down the latter to Peel's River, and thence up Mackenzie River 1,400 miles; or, exclusive of railway and ship carriage, they were carried about 170 miles and did about 2,500

miles of work for the expedition, making in all about 1,700 landings in no easy manner and going through some very bad water. I left them at Fort Chipewyan in fairly good condition, and, with a little painting, they would go through the same ordeal again.

After getting all my outfit over to the foot of Lake Lyndeman I set some of the party to pack it to the head of Bennet Lake. The stream between these two lakes is too shallow and rough to permit of canoe navigation, and every thing had to be portaged the greater part of the way.

I employed the rest of the party in looking for timber to build a boat to carry my outfit of provisions and implements down the river to the vicinity of the International Boundary, a distance of about 700 miles. It took several days to find a tree large enough to make plank for the boat I wanted, as the timber around the upper end of the lake is small and scrubby. My boat was finished on the evening of the 11th of July, and on the 12th I started a portion of the party to load up the large boat, and go ahead with it and the outfit to the cañon. They had instructions to examine the cañon and, if necessary, to carry a part of the outfit past it—in any case, enough to support the party back to the coast should accident necessitate such procedure. With the rest of the party I started to carry on the survey, which may now be said to have fairly started ahead on the lakes. This proved tedious work, on account of the stormy weather.

In the summer months there is nearly always a wind blowing in from the coast; it blows down the lakes and produces quite a heavy swell. This would not prevent the canoes going with the decks on, but, as we had to land every mile or so, the rollers breaking on the generally flat beach proved very troublesome. On this account I found I could not average more than ten miles per day on the lakes, little more than half of what could be done on the river.

The survey was completed to the cañon on the 20th of July. There I found the party with the large boat had arrived on the 18th, having carried a part of the supplies past the cañon, and were awaiting my arrival to run through it with the rest in the boat. Before doing so, however, I made an examination of the cañon. The rapids below it, particularly the last rapid of the series (called the White Horse by the miners), I found would not be safe to run. I sent two men through the cañon in one of the canoes to await the arrival of the boat, and to be ready in case of an accident to pick us up. Every man in the party was supplied with a life-preserver, so that should a casualty occur we would all have floated. Those in the canoe got through all right; but they would not have liked to repeat the trip. They said the canoe jumped about a great deal more than they thought it would, and I had the same experience when going through in the boat.

The passage through is made in about three minutes, or at the rate of about  $12\frac{1}{2}$  miles an hour. If the boat is kept clear of the sides there is not much danger in high water; but in low water there is a rock in the middle of the channel, near the upper end of the cañon, that renders the passage more difficult. I did not see this rock myself, but got my information from some miners I met in the interior, who described it as being about 150 yards down from the head and a little to the west of the middle of the channel. In low water it barely projects above the surface. When I passed through there was no indication of it, either from the bank above or from the boat.

The distance from the head to the foot of the cañon is five-eighths of a mile. There is a basin about midway in it about 150 yards in diameter. This basin is circular in form, with steep sloping sides, about 100 feet high. The lower part of the cañon is much rougher to run through than the upper part, the fall being apparently much greater. The sides are generally perpendicular, about 80 to 100 feet high, and consist of basalt, in some places showing hexagonal columns.

The "White Horse" Rapids are about three-eighths of a mile long. They are the most dangerous rapids on the river, and are never run through in boats except by accident. They are confined by low basaltic banks, which, at the foot, suddenly close in and make the channel about 30 yards wide. It is here the danger lies, as

there is a sudden drop and the water rushes through at a tremendous rate, leaping and seething like a cataract. The miners have constructed a portage road on the west side, and put down rollways in some places, on which to shove their boats over. They have also made some windlasses with which to haul their boats up hill, notably one at the foot of the cañon. This roadway and the windlasses must have cost them many hours of hard labor. Should it ever be necessary, a tramway could be built past the cañon on the east side with no great difficulty. With the exception of the "Five Fingers Rapid" (the Rink Rapid of Schwatka), it appears this is the only serious rapid on the whole length of the river.

Rink Rapid is formed by several islands standing in the channel and backing up the water so much as to raise it about a foot, causing a swell below for a few yards. The islands are composed of conglomerate rock, similar to the cliffs on each side of the river, whence one would infer that there has been a fall here in past ages. For about two miles below the rapid there is a pretty swift current, but not enough to prevent the ascent of a steamboat of moderate power, and the rapids themselves I do not think would present any serious obstacle to the ascent of a good boat. In very high water warping might be required. Six miles below these rapids are what are known as "Little Rapids." This is simply a barrier of rocks, which extends from the westerly side of the river, about half way across. Over this barrier there is a ripple which would offer no great obstacle to the descent of a good canoe. On the easterly side there is no ripple, and the current is smooth and the water apparently deep. I tried with a 6 foot paddle, but could not reach the bottom.

On the 11th of August I met a party of miners coming out who had passed Stewart River a few days before. They saw no sign of Dr. Dawson having been there. This was welcome news for me, as I expected he would have reached that point long before I arrived, on account of the many delays I had met with on the coast range. These miners also gave me the pleasant news that the story told at the coast about the fight with the Indians at Stewart River was false, and stated substantially what I have already repeated concerning it. The same evening I met more miners on their way out, and the next day met three boats, each containing four men. In the crew of one of them was a son of Capt. Moore, from whom the captain got such information as induced him to turn back and accompany them out.

Next day, the 13th, I got to the mouth of the Pelly, and found that Dr. Dawson had arrived there on the 11th. The doctor also had experienced many delays, and had heard the same story of the Indian uprising in the interior. I was pleased to find that he was in no immediate want of provisions, the fear of which had caused me a great deal of uneasiness on the way down the river, as it was arranged between us in Victoria that I was to take with me provisions for his party to do them until their return to the coast. The doctor was so much behind the time arranged to meet me that he determined to start for the coast at once. I therefore set about making a short report and plan of my survey to this point; and, as I was not likely to get another opportunity of writing at such length for a year, I applied myself to a correspondence designed to satisfy my friends and acquaintances for the ensuing twelve months. This necessitated three days' hard work.

On the morning of the 17th the doctor left for the outside world, leaving me with a feeling of loneliness that only those who have experienced it can realize. I remained at the mouth of the Pelly during the next day taking magnetic and astronomical observations, and making some measurements of the river. On the 19th I resumed the survey, and reached White River on the 25th. Here I spent most of a day trying to ascend this river, but found it impracticable, on account of the swift current and shallow and very muddy water. The water is so muddy that it is impossible to see through one-eighth of an inch of it. The current is very strong, probably eight miles or more per hour, and the numerous bars in the bed are constantly changing place. After trying for several hours, the base men succeeded in doing about half a mile only, and I came to the conclusion that it was useless to try to get up this stream to the Boundary with canoes. Had it proved feasible I

had intended making a survey of this stream to the Boundary, to discover more especially the facilities it offered for the transport of supplies in the event of a survey of the International Boundary being undertaken.

I reached Stewart River on the 26th. Here I remained a day taking magnetic observations, and getting information from a miner, named McDonald, about the country up that river. McDonald had spent the summer up the river prospecting and exploring. His information will be given in detail further on.

Fort Reliance was reached on the 1st of September, and Forty-Mile River (Cone-Hill River of Schwatka) on the 7th. In the interval between Fort Reliance and Forty-Mile River there were several days lost by rain.

At Forty-Mile River I made some arrangements with the traders there (Messrs. Harper & McQuestion) about supplies during the winter, and about getting Indians to assist me in crossing from the Pelly or Yukon to the head of the Porcupine, or perhaps on to the Peel River. I then made a survey of the Forty-Mile River up to the cañon. I found the cañon would be difficult of ascent, and dangerous to descend, and, therefore, concluded to defer further operations until the winter, and until after I had determined the longitude of my winter post near the boundary, when I would be in a much better position to locate the intersection of the International Boundary with this river, a point important to determine on account of the number and richness of the mining claims on the river.

I left Forty-Mile River for the boundary line between Alaska and the North-West Territories on the 12th September, and finished the survey to that point on the 14th. I then spent two days in examining the valley of the river in the vicinity of the boundary to get the most extensive view of the horizon possible, and to find a tree large enough to serve for a transit stand.

Before leaving Toronto I got Mr. Foster to make large brass plates with V's on them, which could be screwed firmly to a stump, and thus be made to serve as a transit stand. I required a stump at least 22 inches in diameter to make a base large enough for the plates when properly placed for the transit. In a search which covered about four miles of the river bank, on both sides, I found only one tree as large as 18 inches. I mention this fact to give an idea of the size of the trees along the river in this vicinity. I had this stump enlarged by firmly fixing pieces on the sides so as to bring it up to the requisite size. This done, I built around the stump a small transit house of the ordinary form and then mounted and adjusted my transit. Meanwhile, most of the party were busy preparing our winter quarters and building a magnetic observatory. As I had been led to expect extremely low temperatures during the winter, I adopted precautionary measures, so as to be as comfortable as circumstances would permit during our stay there.

A few remarks descriptive of our residence may not be uninteresting.

After clearing away the top soil and excavating some distance into the side of the hill for a foundation, the bottom round of the house was laid and imbedded in the place so cleared; the next round of logs was then put up and fitted in place; it was then rolled off, and on top of the first round was laid a thick layer of moss; the second round of logs was then put back in its place on top of the moss, which was so thick that the second round did not lie on the saddles at the corners, but rode on the moss. This was done with each succeeding round until the requisite height was reached, when the ordinary kind of shanty roof, consisting of poles, was put on. On these was laid a layer of moss about one foot thick, and on this about one foot of clay. In the roof were two ventilators, which could be closed altogether if necessary.

To heat the building a large stone furnace was built, in size 3 by 8 ft.; the front end of this was fashioned into a fireplace, with oven on top for cooking; the other end was formed into a chimney. The structure was a large mass of stones bound together by a tough white clay, which we found in the vicinity, and which baked hard and white, and did not crack with the heat. When this mass was once heated, which it took two days to do, it retained the heat for a long time.

With the weight of the roof and walls the moss between the logs was so pressed that it filled every crevice and almost made a solid wall. During the winter the ventilators were kept open all the time; yet the lowest temperature observed in the house during our stay was  $48^{\circ}$  Fahrenheit; the average in the morning before the fire was lighted was about  $60^{\circ}$  Fahrenheit.

After finishing our building I mounted a declinometer and bifilar which were given me by Mr. Carpmael, Director of the Meteorological Service of Canada, and continued regular observations with them until I left for Porcupine River.

---

*Astronomical Determinations of the Latitude and Longitude at Observatory on the Pelly-Yukon during Winter of 1887-88.*

I found the levels furnished for use with the astronomical transit, as made by Fauth, to be useless. Instead of being sealed hermetically they were sealed by a plate bevelled into each end with a ground joint, this plate being cemented in. During the summer the cement softened and allowed the contents to run out. Early in the season I had noticed one of them leaking; I then took every possible precaution to save the other one, but without avail, as they were both empty when I wanted to use them. Fortunately, I had some pure alcohol with me for preserving specimens in; with this I refilled one of the tubes, and as I also had some rubber corks, one of which fortunately fitted the bore of the tubes, I cut it in two and stopped the ends with it. I found this to answer the purpose very well.

Before commencing work with this level I made a determination of the value in arc of its divisions. This I did by setting it on a bar about 12 feet long, on each end of which a metal plate was fixed. In one of these plates a fine slit was made, which was rested on the edge of a knife fixed in a stump; the other plate was placed on the end of a micrometer screw, reading to  $\cdot 0001$  of an inch; the bubble was made to traverse the length of its run several times by turning the screw; the difference of height of the movable end was known from the readings of the micrometer, and from the known length of the bar; the angle moved through was easily deduced. I made the first determination when the temperature was  $28^{\circ}$  Fah. Three determinations were made and the mean used as the true value; the three stood as follows, expressed in seconds of arc: 1st,  $2''08$ ; 2nd,  $1''98$ ; 3rd,  $2''03$ ; mean,  $2''03$ . A careful determination made in the same way when the temperature was  $41^{\circ}$  below zero gave the value in arc  $2''41$ . I interpolated between these values for the different temperatures at the time of the observations.

The reflecting telescope intended for the observation of occultations of stars by the moon having got out of order, owing, I suppose, to the continued damp, cool weather during the season, I had to fit up a tourist's telescope to take its place. Unfortunately of all the occultations arranged for with Mr. King before leaving Ottawa, through the two lunations of October-November and November-December, of which about sixty would occur here, none were observed.

Soon after getting my transit mounted and adjusted I got a culmination of the moon on the 29th September. I intended this as a check on the survey, and as a basis for the computation of the times of the occultations; but I did not see the moon, nor a star again until November, after both lunations of the programme were over. I then computed a lot of occultations in the next lunation, but was as unfortunate with them as with the others.

In order to get all the data possible to determine the longitude of my observatory I took every moon culmination I could get all through the months of November, December, January and a part of February. To make these as accurate as possible, I observed the following method. A list of stars were selected succeeding each other in right ascension, at intervals of four or five minutes as nearly as possible, and containing ten stars. Their position was such that the moon transited about midway in the group. The list contained, when possible, four moon-culminating stars, two polar stars, and four stars near the zenith. The first half of the group was observed



with the transit clamp east, the transit of the moon's limb was then observed, the telescope then turned clamp west and the other half of the stars observed. From the star transits were deduced, by the method of "least squares," the correction to the time of the passage of the moon's limb, and the azimuth and collimation errors of the transit. The collimation and azimuth error were applied with their proper sign to the moon at its transit; thus the right ascension of the moon was known for the place, and from the Ephemeris right ascension at its transit at Washington, or the right ascension at its upper and lower transit at Greenwich, the longitude of the observatory was deduced.

I found the azimuth of the transit remain very steady during the mild weather in the fall; but when the cold weather set in, and especially during one severe spell, it was very unsteady, though, perhaps, not more so than the ordinary form of transit stand would have been. Many of the observations were taken when the thermometer was 40 to 50 degrees below zero, and it must be confessed that such a degree of cold would try any kind of stand.

It is not to be supposed that the same variation would be found in every other stump that was found in the one upon which my transit was mounted, but it may be of interest to note that the variation of azimuth always had the same direction with a decrease of temperature, and that the direction was reversed when the temperature rose. Another result of a decrease of temperature was the contraction of the stump-stand, which necessitated replacing of the brass plates. With a decrease of temperature the level also changed, but always in a constant direction, which was reversed when the temperature changed again, so that at the same temperature the level reading would be the same. I found the change of level so great that it would in the course of a day run the bubble out of sight, and necessitate a readjustment of both level and azimuth. It is not certain that this variation arose from change in the stump, but it was most probably due to changes in the ground around it; so that the stump was probably as good a stand as I could have had, and saved the carriage of about two hundred pounds into the country and out again. Of all the occultations computed (about one hundred) only three were observed. These are given further on.

I here insert a table of the results of the moon culminations I observed at my observatory. All the culminations observed in 1887 were computed from the British Ephemeris by using the right ascension of the moon's bright limb at upper and lower transit at Greenwich. All culminations observed in 1888 were computed from the American Ephemeris, by using the moon's right ascension at meridian passage at Washington. These were occasionally checked by computing from the hourly Ephemeris. I give date of observation, the number of stars observed, the deduced right ascension of the moon's bright limb, and the resulting longitude, for the purpose of comparison, first giving the observations taken on the moon's bright limb when crescent, following with those taken when it was waning:

*Observations on 1st Limb.*

Date.	No. of Stars.	Deduced R. A. of Moon's Limb.			Deduced Longitude in Time.		
		h.	m.	s.	h.	m.	s.
Sept. 29, 1887.....	7	23	14	59.47	9	23	35.89
Nov. 23 " .....	9	23	30	40.62	"		24.19
" 25 " .....	10	1	02	24.39	"		26.61
Dec. 21 " .....	5	23	59	02.65	"		28.02
" 22 " .....	6	0	44	59.11	"		23.73
" 23 " .....	8	1	30	39.34	"		21.54
" 27 " .....	6	4	46	14.33	"		27.32
" 29 " .....	8	6	37	24.78	"		33.16
Jan. 18, 1888.....	8	0	25	46.91	"		29.15
" 20 " .....	8	1	57	41.35	"		30.19

Date.	No. of Stars.	Deduced R. A. of Moon's Limb.		Deduced Longitude in Time.	
		h.	m. s.	h. m.	s.
Jan. 21, 1888.....	8	2	44 25.21	9	23 27.50
" 23, " .....	9	4	23 12.90	"	" 37.72
" 26, " .....	8	7	09 44.15	"	" 30.92
Feb. 23, " .....	8	7	39 49.33	"	" 32.68
Mean .....				9	23 29.47
Probable error of mean				3.01s.	

It would be a waste of time to sum these by weights, having regard to the moon's rate of motion, the number of stars observed, and the probable error of each night's work, as the accuracy of the result depends mainly on the accuracy of the observed transit of the moon's limb. This could be deduced from the observations themselves, but as I had not time when observing to do this, and have not done it since, I do not consider it worth the time to do it now, as it would affect the mean result very little.

Observations on 2nd Limb.

Date.	No. of Stars.	Deduced R. A. of Moon's Limb.		Deduced Longitude in Time.	
		h.	m. s.	h. m.	s.
Nov. 30, 1887.....	3	.....		9	23 40.42
Dec. 1, " .....	8	6	04 00.16	"	" 44.18
" 2, " .....	6	7	00 27.73	"	" 52.24
" 3, " .....	7	7	57 27.54	"	" 46.07
" 6, " .....	7	10	46 19.81	"	" 39.96
" 7, " .....	4	11	41 28.83	"	" 45.44
" 29, " .....	8	6	39 41.95	"	" 39.70
Jan. 31, 1888.....	8	12	02 21.99	"	" 44.87
Mean.....				9	23 44.11
Probable error of mean				2.81s	

The mean of both is 9h. 23m. 36.79s. in time, or in arc 140° 54' 11".8, west of Greenwich. It will be noticed that on the 29th December both limbs of the moon were observed. The moon arrived at opposition that evening a little more than an hour before it transited at my station, so that it was sensibly full on both limbs at the time of my observation. The mean of the longitudes deduced from that night's work agrees very closely with the mean of the two series.

It would seem from the result that in the case of the first limb I anticipate contact of the limb with the wire, and in the case of the second limb I am tardy. If I may judge of the relative value of the separate determinations by my nervous condition at the time of observation, I would give that on the first limb the greater weight, as those observations were taken early in the evening, when my system was in its normal condition; but when observing on the second limb it was much later and I was somewhat wearied and drowsy, there being not enough of the work, nor its regularity sufficient, to accustom me thoroughly to it.

Three occultations were observed; I did not compute the longitude from them, as I had not time. But I always made the preparatory computation twice over, and sometimes three times, so that I had the time of occultation very close, for the longitude used in the computation (9h. 23m. 36s.). I found the computed and the observed time so nearly the same that it was probable the difference was chiefly due to personal error in observation. I was therefore not so anxious to deduce the longitude from them as I otherwise would have been. Mr. W. F. King, Chief Inspector of Surveys, has computed the longitude from one of the occultations, the result of which I give.

December 5, 1887—Occultation of Alpha Leonis. Chronometer time of immersion 1h. 27m. 12.6s. Emersion not visible. Chronometer fast 9h. 31m. 42.51s.

This occultation was observed in daylight near the horizon, and with a small telescope, so it cannot be called good.

January 23, 1888—Occultation of  $\gamma$  Tauri. Chronometer time of immersion 12h. 4m. 16<sup>s</sup>.25s. Emersion not visible. Chronometer fast 9h. 33m. 23<sup>s</sup>.42s.

January 23, 1888—Occultation of Alpha Tauri. Chronometer time of immersion 16h. 31m. 07<sup>s</sup>.55s. Emersion 17h. 18m. 49<sup>s</sup>.35s. Chronometer fast for immersion 9h. 33m. 23<sup>s</sup>.81s.; for emersion 9h. 33m. 23<sup>s</sup>.87s.

Mr. King's longitudes in time, computed from the times of immersion and emersion of the last star, are respectively 9h. 23m. 45<sup>s</sup>.28s., and 9h. 24m. 11<sup>s</sup>.22s. In the case of this occultation the immersion was by the moon's dark limb, and there was no difficulty in observing it, but my telescope was much too small to show when the star emerged from the moon's bright limb, and the emersion was not noted until the star stood out clear from the moon, probably a second or more too late, the effect of which would be to make the resulting longitude too great.

I determined the latitude of a point 60 feet north of my transit stand by setting up very carefully my 4-inch transit in the prime vertical. To insure all possible steadiness I suspended heavy weights from the tension screw of the instrument, so that the foot screws and the rest of the instrument were almost as rigid as if solid. By several trials I very carefully determined the value of a division of the striding level of the instrument, and found it to be 20", and it was sensitive enough to plainly show one-fourth of this, and less than that could be estimated. I used on the telescope the eye-piece of the astronomical transit, which gave me power enough to see distinctly when a star crossed the wires, and yet was not too powerful for proper definition. I used three wires in the telescope, of which the aperture was 1 inch and the focal length 10 inches. I had a reference object fixed west of the instrument about half a mile, consisting of a box with an inch and a half slit in one side of it, which was covered with a piece of white cotton. In the box was placed a candle, the light of which shone through the cotton in the slit, presenting a bright clear mark, without any radiation of light. Just before observing a star transit the instrument was carefully levelled, then pointed on the R.O. and then on the star, and the passage over the wires observed; the level was then read, and the telescope again pointed to the R.O. to see that no movement had taken place in the interval.

On the 24th of October, 1887, I observed the following prime vertical transits of stars east and west of the meridian;  $\gamma$  Draconis, west transit, circle south;  $\gamma$  Cephei, east transit, circle north. 36 Draconis, west transit, circle north. The chronometer error was determined by a few star transits. When clouds prevented further observations that night, the latitude deduced from the several transits stood as follows:—

$\gamma$  Draconis 64° 40' 57".2.  
 $\gamma$  Cephei 64° 40' 57".4.  
 36 Draconis 64° 40' 58".4.  
 Mean of all 64° 40' 57".7.

January 26, 1888—I got both east and west transits of  $\epsilon$  Cassiopeæ, but the sky was hazy, and the thermometer was—30°, so that the observation cannot be considered good. The latitude deduced from it was 64° 41' 06".4.

January 3, 1888, and February 27 and 28.—I observed, with the dip circle, for magnetic dip, total force, and declination. The values of these at the place will be appended to this report, as will the readings of the declinometer furnished by Mr. Carpmæl, Director of the Meteorological Service of Canada. This was read twice a day, the times being those when the needle was at its greatest eastern and western variation for the day. These times were determined by observing its position every hour for about ten days, and were found to be respectively 7h. 30m. a.m., and 1h. 30m. p.m.

The weather throughout the winter was unusually stormy and snowy, which seriously interfered with the arrangements made before I left Ottawa. In fact it might be said it altogether set them aside; still, the observations I was able to get

will give a fair approximation to the longitude of the observatory, the probable error of the result of all being about three seconds of time, or in land measure about 30 chains, or three-eighths of a mile.

*Survey of Forty Mile River, from its Mouth to the International Boundary Line.*

After computing the longitude from all the observations I had got up to the 1st February, I took two of my men and my instruments, and started for Forty-Mile River to continue the survey up the same to the International Boundary. After three days tiresome marching through the deep, soft snow, I reached the mouth of Forty-Mile River. Here I remained two days resting and preparing to continue the survey up the river. On the 9th of February I started with the survey from where I had left it in the summer, as already mentioned.

During the progress of this work the weather was cold, and as the days were only four or five hours long the progress was necessarily slow, so that I did not complete the survey to the Boundary until the 12th. The distance from the mouth of the Forty-Mile River up it to the Boundary is, by the river, twenty-three miles. I marked the intersection of the river by the Boundary by blazing trees on both sides and marking on some of the trees the letters "A" and "C" on the west and east sides respectively, for Alaska and Canada.

The natural features of the ground here afford also a good mark. On the north side of the river two small creeks fall into Forty-Mile River, almost together, and between them there is a sharp rocky mound about 150 feet high. This mound stands where the boundary crosses the river, and from this point one can see northwards up the valleys of the creeks for several miles. This is the first place on the river where such a distant view can be had.

I returned to the post at the mouth of the river, and spent two days with the traders Harper and McQuestion and the miners who were camped around.

Harper, McQuestion & Co., moved from Stewart River down to this point in the spring of 1887, so as to be where most of the miners were located. On Forty-Mile River, in the season of 1886, coarse gold was found, the first discovered on the Lewes or any of its tributaries. Coarse gold is the desideratum of all gold miners, and as soon as the news of the discovery spread to the other mining camps, where nothing but fine or dust gold had yet been found, they all repaired to the coarse gold diggings on Forty-Mile.

About one hundred miners wintered in the country, most of whom camped at Forty-Mile. A few wintered down at the old trading post built by F. Mercier, and named by him Belle Isle. This post is where Lieut. Schwatka located the International Boundary, but it is about twelve miles below the Boundary by my survey and observations.

When I was at Forty-Mile River the miners were very anxious to see me, and to know our mining regulations and laws. I explained everything they inquired about as fully as my knowledge and the documents as my disposal would permit. Many of them who were used to the United States system of each mining community making its own by-laws, based on the general mining law of the country, and electing their own recorder to attend to the regulations and see them carried out, thought some of our regulations rather stringent and hard. I heard their statements and answered such of them as I could, and also promised to lay their views before the Department. This I have already done in a report sent by me in the spring of 1888. As this report is of purely administrative import, it is not necessary to quote it here.

During the winter there were many cases of sickness at Forty-Mile, most of them of scurvy. There were three deaths, only one of which was due to scurvy.

I returned to my quarters on the 17th February, and immediately set the party at work drawing the canoes and instruments, and about four months provisions down to Belle Isle, about fifteen miles down the river from my house. This was to be our starting point for the Mackenzie River.

## SECTION 2.

*Description of the Pelly-Yukon, its Affluent Streams, and the Adjacent Country.*

I will now give, from my own observation and from information received, a more detailed description of the Lewes River, its affluent streams, and the resources of the adjacent country.

For the purposes of navigation a description of the Lewes River begins at the head of Lake Bennet. Above that point, and between it and Lake Lyndeman, there is only about three-quarters of a mile of river, which is not more than 50 or 60 yards wide, and 2 or 3 feet deep, and is so swift and rough that navigation is out of the question.

Lake Lyndeman is about five miles long and half a mile wide. It is deep enough for all ordinary purposes. Lake Bennet is twenty-six and a-quarter miles long, the upper fourteen of which are about half a mile wide. About midway in its length an arm comes in from the west which Schwatka appears to have mistaken for a river, and named Wheaton River. This arm is wider than the other arm down to that point, and is reported by Indians to be longer and heading in a glacier which lies in the pass at the head of Chilkoot Inlet. This arm is, as far as seen, surrounded by high mountains, apparently much higher than those on the arm we travelled down. Below the junction of the two arms the lake is about one and a half miles wide, with deep water. Above the forks the water of the east branch is muddy. This is caused by the streams from the numerous glaciers on the head of the tributaries of Lake Lyndeman.

A stream which flows into Lake Bennet at the south-west corner is also very dirty, and has shoaled quite a large portion of the lake at its mouth. The beach at the lower end of this lake is comparatively flat and the water shoal. A deep, wide valley extends northwards from the north end of the lake, apparently reaching to the canon, or a short distance above it. This may have been originally a course for the waters of the river. The bottom of the valley is wide and sandy, and covered with scrubby timber, principally poplar and pitch-pine. The waters of the lake empty at the extreme north-east angle through a channel not more than one hundred yards wide, which soon expands into what Schwatka called Lake Nares. Through this narrow channel there is quite a current, and more than 7 feet of water, as a 6 foot paddle and a foot of arm added to its length did not reach the bottom.

The hills at the upper end of Lake Lyndeman rise abruptly from the water's edge. At the lower end they are neither so steep nor so high.

Lake Nares is only two and a half miles long, and its greatest width is about a mile: the water is not deep, but it is navigable for boats drawing 5 or 6 feet of water. It is separated from Lake Bennet by a shallow sandy point of not more than 200 yards in length.

No streams of any consequence empty into either of these lakes. A small river flows into Lake Bennet on the west side a short distance north of the fork, and another at the extreme north-west angle, but neither of them are of any consequence in a navigable sense. The former seems to be what Schwatka referred to as Wheaton River.

Lake Nares flows through a narrow curved channel into Bove Lake (Schwatka). This channel is not more than 600 or 700 yards long, and the water in it appears to be sufficiently deep for boats that could navigate the lake. The land between the lakes along this channel is low, swampy, and covered with willows, and, at the stage in which I saw it, did not rise more than 3 feet above the water. The hills on the south-west side slope up easily, and are not high; on the north side the deep valley already referred to borders it; and on the east side the mountains rise abruptly from the lake shore.

Bove Lake (called Tagish Lake by Dr. Dawson) is about a mile wide for the first two miles of its length, when it is joined by what the miners have called the Windy Arm. One of the Tagish Indians informed me they called it Takone Lake. Here the lake expands to a width of about two miles for a distance of some three

miles, when it suddenly narrows to about half a mile for a distance of a little over a mile, after which it widens again to about a mile and a-half or more.

Ten miles from the head of the lake it is joined by the Tako Arm from the south. This arm must be of considerable length, as it can be seen for a long distance, and its valley can be traced through the mountains much farther than the lake itself can be seen. It is apparently over a mile wide at its mouth or junction.

Dr. Dawson seems to include Bove Lake and these two arms under the common name of Tagish Lake. This is much more simple and comprehensive than the various names given them by travellers. These waters collectively are the fishing and hunting grounds of the Tagish Indians, and as they are really one body of water, there is no reason why they should not be all included under one name.

From the junction with the Tako Arm to the north end of the lake the distance is about six miles, the greater part being over two miles wide. The west side is very flat and shallow, so much so that it was impossible in many places to get our canoes to the shore, and quite a distance out in the lake there was not more than 5 feet of water. The members of my party, who were in charge of the large boat and outfit, went down the east side of the lake and reported the depth about the same as I found on the west side, with many large rocks. They passed through it in the night in a rain storm, and were much alarmed for the safety of the boat and provisions. It would appear that this part of the lake requires some improvement to make it in keeping with the rest of the water system with which it is connected.

Where the river debouches from it, it is about 150 yards wide, and for a short distance not more than 5 or 6 feet deep. This depth is, however, soon increased to 10 feet or more, and so continues down to what Schwatka calls Marsh Lake. The miners call it Mud Lake, but on this name they do not appear to be agreed, many of them calling the lower part of Tagish or Bove Lake "Mud Lake," on account of its shallowness and flat muddy shores, as seen along the west side, the side nearly always travelled, as it is more sheltered from the prevailing southerly winds. The term "Mud Lake" is however not applicable to this lake, as only a comparatively small part of it is shallow or muddy, and it is nearly as inapplicable to Marsh Lake, as the latter is not markedly muddy along the west side, and from the appearance of the east shore one would not judge it to be so, as the banks appear to be high and gravelly.

Marsh Lake is a little over nineteen miles long and would average about two miles in width. I tried to determine the width of it as I went along with my survey, by taking azimuths of points on the eastern shore from different stations of the survey; but in only one case did I succeed, as there were no prominent marks on that shore which could be identified from more than one place. The piece of river connecting Tagish and Marsh Lakes is about five miles long, and averages 150 to 200 yards in width, and, as already mentioned, is deep, except for a short distance at the head. On it are situated the only Indian houses to be found in the interior with any pretension to skill in construction. They show much more labor and imitativeness than one knowing anything about the Indian in his native state would expect. The plan is evidently taken from the Indian houses on the coast, which appear to me to be a poor copy of the houses which the Hudson's Bay Company's servants build around their trading posts. These houses do not appear to have been used for some time past, and are almost in ruins. The Tagish Indians are now generally on the coast, as they find it much easier to live there than in their own country. As a matter of fact, what they make in their own country is taken from them by the Coast Indians, so that there is little inducement for them to remain.

The Lewes River, where it leaves Marsh Lake, is about 200 yards wide, and averages this width as far as the canon. I did not try to find bottom anywhere as I went along, except where I had reason to think it shallow, and there I always tried with my paddle. I did not anywhere find bottom with this, which shows that there is no part of this stretch of the river with less than 6 feet of water at medium height, at which stage it appeared to me the river was at that time.

From the head of Bennet Lake to the canon the corrected distance is ninety-five miles, all of which is navigable for boats drawing 5 feet or more. Add to this the westerly arm of Bennet Lake, and the Takone or Windy Arm of Tagish Lake, each about fifteen miles in length, and the Tako Arm of the latter lake, of unknown length, but probably not less than thirty miles, and we have a stretch of water of upwards of one hundred miles in length, all easily navigable; and, as has been pointed out, easily connected with Taiya Inlet through the White Pass.

No streams of any importance enter any of these lakes so far as I know. A river, called by Schwatka "McClintock River," enters Marsh Lake at the lower end from the east. It occupies a large valley, as seen from the westerly side of the lake, but the stream is apparently unimportant. Another small stream, apparently only a creek, enters the south-east angle of the lake. It is not probable that any stream coming from the east side of the lake is of importance, as the strip of country between the Lewes and Tes-lin-too is not more than thirty or forty miles in width at this point.

The Tako Arm of Tagish Lake is so far, with the exception of reports from Indians, unknown; but it is equally improbable that any river of importance enters it, as it is so near the source of the waters flowing northwards. However, this is a question that can only be decided by a proper exploration. The canon I have already described, and will only add that it is five-eighths of a mile long, about 100 feet wide, with perpendicular banks of basaltic rock from 60 to 100 feet high.

Below the canon proper there is a stretch of rapids for about a mile; then about half a mile of smooth water; following which are the "White Horse" Rapids, which are three-eighths of a mile long, and unsafe for boats.

The total fall in the canon and succeeding rapids was measured and found to be 32 feet. Were it ever necessary to make this part of the river navigable it will be no easy task to overcome the obstacles at this point; but a tram or railway could with very little difficulty be constructed along the east side of the river past the canon.

For some distance below the White Horse Rapids the current is swift and the river wide, with many gravel bars. The reach between these rapids and Lake Labarge, a distance of twenty-seven and a-half miles, is all smooth water, with a strong current. The average width is about 150 yards. There is no impediment to navigation other than the swift current, and this is no stronger than on the lower part of the river, which is already navigated; nor is it worse than on the Saskatchewan and Red Rivers in the more eastern part of our territory.

About midway in this stretch the Tahk-heena River joins the Lewes. This river is apparently about half the size of the latter. Its waters are muddy, indicating its passage through a clayey district. I got some indefinite information about this river from an Indian who happened to meet me just below its mouth, but I could not readily make him understand me, and his replies were a compound of Chinook, Tagish, and signs, and therefore largely unintelligible. From what I could understand with any certainty, the river was easy to descend, there being no bad rapids, and it came out of a lake much larger than any I had yet passed.

Here, I may remark, that I have invariably found it difficult to get reliable or definite information from Indians. The reasons for this are many. Most of the Indians it has been my lot to meet are expecting to make something, and consequently are very chary about doing or saying anything, unless they think they will be well rewarded for it. They are naturally very suspicious of strangers, and it takes some time, and some knowledge of their language, to overcome this suspicion and gain their confidence. If you begin at once to ask questions about their country, without previously having them thoroughly understand that you have no unfriendly motive in doing so, they become alarmed, and although you may not meet with a positive refusal to answer questions, you make very little progress in getting desired information. On the other hand, I have met cases where either through fear or hope of reward they were only too anxious to impart all they knew or had heard,

and even more if they thought it would please their hearer. I need hardly say that such information is often not at all in accordance with the facts.

I have several times found that some act of mine when in their presence has aroused either their fear, superstition or cupidity. As an instance: on the Bell River I met some Indians coming down stream when I was going up. We were ashore at the time, and invited them to join us. They started to come in, but very slowly, and all the time kept a watchful eye on us. I noticed that my double-barrelled shot gun was lying at my feet loaded, and picked it up to unload it, as I knew they would be handling it after landing. This alarmed them so much that it was some time before they came in, and I don't think they would have come ashore at all had they not heard that a party of white men, of whom we answered the description, were coming through that way (they had learned this from the Hudson's Bay Company's officers), and concluded we were the party described to them. After drinking some of our tea, and getting a supply for themselves, they became quite friendly and communicative.

Again, on the Mackenzie River, while two Indians were coming ashore at my camp, I picked up a telescope to look for a signal across the river. In looking for it I had to point it towards the Indians who immediately turned and fled. Next day I called at the Indian encampment and explained through my interpreter what I had really done. When they understood it, it caused the camp much amusement.

At Fort Good Hope, on the Mackenzie, I heard of an old Indian who had been a great deal on the Hare River, and could give valuable information regarding it. I asked to have him brought in, that I might question him. In the mean time I set about getting an observation for azimuth, and was busy observing when he came. The interpreter asked me what I was doing; I told him. He asked what I was looking up so much for; I said I was looking at a star. As the time was early in the evening, and the sun well up in the sky, he at first doubted my statement, but, finally believing, he explained to the Indians around what I was doing, and pointed out to them where the star was. They looked up in an awed manner, and walked off. When I finished my observation and inquired for the old man, I was told that he was not inclined to see me. I found him, but he refused to answer any questions, saying that there was no use in telling me anything, for when I could see stars during daylight I could just as easily see all the river, and nothing could convince him to the contrary.

I cite these as instances of what one meets with who comes in contact with Indians, and of how trifles affect them. A sojourn of two or three days with them and the assistance of a common friend would do much to disabuse them of such ideas, but when you have no such aids you must not expect to make much progress.

Lake Labarge is thirty-one miles long. For the upper thirteen it varies from three to four miles in width; it then narrows to about two miles for a distance of seven miles, when it begins to widen again, and gradually expands to about two and a-half or three miles, the lower six miles of it maintaining the latter width. The survey was carried along the western shore, and while so engaged I determined the width of the upper wide part by triangulation at two points, the width of the narrow middle part at three points, and the width of the lower part at three points. Dr. Dawson on his way out made a track survey of the eastern shore. The western shore is irregular in many places, being indented by large bays, especially at the upper and lower ends. These bays are, as a rule, shallow, more especially those at the lower end.

Just above where the lake narrows in the middle there is a large island. It is three and a-half miles long and about half a mile in width. It is shown on Schwatka's map as a peninsula, and called by him Richtofen Rocks. How he came to think it a peninsula I cannot understand, as it is well out in the lake; the nearest point of it to the western shore is upwards of half a mile distant, and the extreme width of the lake here is not more than five miles, which includes the depth of the deepest bays on the western side. It is therefore difficult to understand that he did not see it as an island. The upper half of this island is gravelly, and does not rise very high



above the lake. The lower end is rocky and high, the rock being of a bright red color.

At the lower end of this lake there is a large valley extending northwards, which has evidently at one time been the outlet of the lake. Dr. Dawson has noted it and its peculiarities. His remarks regarding it will be found on pages 156-160 of his report entitled "Yukon District and Northern portion of British Columbia," published in 1889.

The width of the Lewes River as it leaves the lake is the same as at its entrance, about 200 yards. Its waters, when I was there, were murky. This is caused by the action of the waves on the shore along the lower end of the lake. The water at the upper end and at the middle of the lake is quite clear, so much so that the bottom can be distinctly seen at a depth of 6 or 7 feet. The wind blows almost constantly down this lake, and in a high wind it gets very rough. The miners complain of much detention owing to this cause, and certainly I cannot complain of a lack of wind while I was on the lake. This lake was named after one Mike Labarge who was engaged by the Western Union Telegraph Company exploring the river and adjacent country for the purpose of connecting Europe and America by telegraph through British Columbia, and Alaska, and across Behring's Straits to Asia, and thence to Europe. This exploration took place in 1867, but it does not appear that Labarge then, nor for some years after, saw the lake called by his name. The successful laying of the Atlantic cable in 1866 put a stop to this project, and the exploring parties sent out were recalled as soon as word could be got to them. It seems that Labarge had got up as far as the Pelly before he received his recall; he had heard something of a large lake some distance farther up the river, and afterwards spoke of it to some traders and miners, who called it after him.

After leaving Lake Labarge the river, for a distance of about five miles, preserves a generally uniform width and an easy current of about four miles per hour. It then makes a short turn round a low gravel point, and flows in exactly the opposite of its general course for a mile, when it again turns sharply to its general direction. The current around this curve and for some distance below it—in all four or five miles—is very swift. I timed it in several places and found it from six to seven miles an hour. It then moderates to four or five, and continues so until the Tes-lin-too River is reached, thirty-one and seven-tenth miles from Lake Labarge. The average width of this part of the river is about 150 yards, and the depth is sufficient to afford passage to boats drawing at least 5 feet. It is, as a rule, crooked, and consequently a little difficult to navigate.

The Tes-lin-too was so called by Dr. Dawson—this, according to information obtained by him, being the Indian name. It is called by the miners "Hootalinkwa" or Hotalinqua, and was called by Schwatka, who appears to have bestowed no other attention on it, the Newberry, although it is apparently much larger than the Lewes. This was so apparent that in my interim reports I stated it as a fact. Owing to circumstances already narrated I had not time while at the mouth to make any measurement to determine the relative size of the rivers; but on his way out Dr. Dawson made these measurements, and his report, before referred to, gives the following values of the cross sections of each stream: Lewes, 3,015 feet; Tes-lin-too, 3,809 feet. In the same connection he states that the Lewes appears to be about 1 foot above its lowest summer level, while the Tes-lin-too appeared to be at its lowest level. Assuming this to be so, and taking his widths as our data, it would reduce his cross section of the Lewes to 2,595 feet. Owing, however, to the current in the Lewes, as determined by Dr. Dawson, being just double that of the Tes-lin-too, the figures being 5.68 and 2.88 miles per hour, respectively, the discharge of the Lewes, taking these figures again, is 18,664 feet, and of the Tes-lin-too 11,436 feet. To reduce the Lewes to its lowest level the doctor says would make its discharge 15,600 feet.

The water of the Tes-lin-too is of a dark brown color, similar in appearance to the Ottawa River water, and a little turbid. Notwithstanding the difference of volume of discharge, the Tes-lin-too changes completely the character of the river

below the junction, and a person coming up the river would, at the forks, unhesitatingly pronounce the Tes-lin-too the main stream. The water of the Lewes is blue in color, and at the time I speak of was somewhat dirty—not enough so, however, to prevent one seeing to a depth of two or three feet.

At the junction of the Lewes and Tes-lin-too I met two or three families of the Indians who hunt in the vicinity. One of them could speak a little Chinook. As I had two men with me who understood his jargon perfectly, with their assistance I tried to get some information from him about the river. He told me the river was easy to ascend, and presented the same appearance eight days journey up as at the mouth; then a lake was reached, which took one day to cross; the river was then followed again for half a day to another lake, which took two days to traverse; into this lake emptied a stream, which they used as a highway to the coast, passing by way of the Taku River. He said it took four days when they had loads to carry, from the head of canoe navigation on the Tes-lin-too to salt water on the Taku Inlet; but when they come light they take only one to two days. He spoke also of a stream entering the large lake from the east which came from a distance; but they did not seem to know much about it, and considered it outside their country. If their time intervals are approximately accurate, they mean that there are about 200 miles of good river to the first lake, as they ought easily to make 25 miles a day on the river as I saw it. The lake takes one day to traverse and is at least 25 miles long, followed by say 12 of river, which brings us to the large lake, which takes two days to cross, say 50 or 60 more—in all about 292 miles—say 300 to the head of canoe navigation; while the distance from the head of Bennet Lake to the junction is only 188. Assuming the course of the Tes-lin-too to be nearly south (it is a little to the east of it), and throwing out every fourth mile for bends, the remainder gives us in arc three degrees and a quarter of latitude, which, deducted from  $61^{\circ} 40'$ , the latitude of the junction, gives us  $58^{\circ} 25'$ , or nearly the latitude of Juneau City.

To make sure that I understood the Indian aright, and that he knew what he was speaking about, I got him to sketch the river and lake as he described them on the sand, and to repeat the same several times.

I afterwards met Mr. T. Boswell, his brother, and another miner, who had spent most of the summer on the river prospecting, and from them I gathered the following: The distance to the first, and only lake which they saw, they put at 175 miles, and the lake itself they call at least 150 miles long, as it took them four days to row in a light boat from end to end. The portage to the sea they did not appear to know anything about, but described a large bay on the east side of the lake, into which a river of considerable size entered. This river occupies a wide valley, surrounded by high mountains. They thought this river must head near Liard River. This account differs materially from that given by the Indian, and to put them on their guard, I told them what he had told me, but they still persisted in their story, which I find differs a good deal from the account they gave Dr. Dawson, as incorporated in his report.

Many years ago, sixteen I think, a man named Monroe prospected up the Taku and learned from the Indians something of a large lake not far from that river. He crossed over and found it, and spent some time prospecting, and then recrossed to the sea. This man had been at Forty-Mile River, and I heard from the miners there his account of the appearance of the lake, which amounted generally to this: "The Boswells did not know anything about it". It was unfortunate the Boswells did not remain at Forty-Mile all winter, as by a comparison of recollections they might have arrived at some correct conclusion.

Conflicting as these descriptions are, one thing is certain: this branch, if it has not the greater discharge, is the longer and more important of the two, and offers easy and uninterrupted navigation for more than double the distance which the Lewes does, the cañon being only ninety miles above the mouth of the Tes-lin-too. The Boswells reported it as containing much more useful timber than the Lewes, which indeed one would infer from its lower altitude.

Assuming this as the main river, and adding its length to the Lewes-Yukon below the junction, gives upwards of 2,200 miles of river, fully two-thirds of which run through a very mountainous country, without an impediment to navigation.

Some indefinite information was obtained as to the position of this river in the neighborhood of Marsh Lake tending to show that the distance between them was only about thirty or forty miles.

Between the Tes-lin-too and the Big Salmon, so called by the miners, or D'Abbadie by Schwatka, the distance is thirty-three and a-half miles, in which the Lewes preserves a generally uniform width and current. For a few miles below the Tes-lin-too it is a little over the ordinary width, but then contracts to about two hundred yards which it maintains with little variation. The current is generally from four to five miles per hour.

The Big Salmon I found to be about one hundred yards wide near the mouth, the depth not more than four or five feet, and the current, so far as could be seen, sluggish. None of the miners I met could give me any information concerning this stream: but Dr. Dawson was more fortunate, and met a man who had spent most of the summer of 1887 prospecting on it. His opinion was that it might be navigable for small stern-wheel steamers for many miles. The valley as seen from the mouth is wide and gives one the impression of being occupied by a much more important stream. Looking up it, in the distance could be seen many high peaks covered with snow. As the date was August it is likely they are always so covered, which would make their probable altitude above the river 5,000 feet, or more.

Dr. Dawson in his report incorporates fully the notes obtained from the miners. I will trespass so far on these as to say that they called the distance to a small lake near the head of the river 190 miles from the mouth. This lake was estimated to be four miles in length; another lake about twelve miles above this was estimated to be twenty-four miles long, and its upper end distant only about eight miles from the Tes-lin-too. These distances if correct make this river much more important than a casual glance at it would indicate: this, however, will be more fully spoken of under its proper head.

Just below the Big Salmon the Lewes takes a bend of nearly a right angle. Its course from the junction with the Tahk-heena to this point is generally a little east of north; at this point it turns to nearly west for some distance. Its course between here and its confluence with the Pelly is north-west, and I may add it preserves this general direction down to the confluence with the Porcupine. The river also changes in another respect; it is generally wider, and often expands into what might be called lakes, in which are islands. Some of the lakes are of considerable length, and well timbered.

To determine which channel is the main one, that is, which carries the greatest volume of water, or is best available for the purposes of navigation, among these islands, would require more time than I could devote to it on my way down; consequently, I cannot say more than that I have no reason to doubt that a channel giving 6 feet or more of water could easily be found. Whenever in the main channel I had reason to think the water shallow I tried it with my paddle, but always failed to find bottom, which gives upwards of 6 feet. Of course, I often found less than this, but not in what I considered the main channel.

Thirty-six and a quarter miles below the Big Salmon, the Little Salmon—the Daly of Schwatka—enters the Lewes. This river is about sixty yards wide at the mouth, and not more than two or three feet in depth. The water is clear and of a brownish hue; there is not much current at the mouth, nor as far as can be seen up the stream. The valley which, from the mouth, does not appear extensive, bears north-east for some distance, when it appears to turn more to the east. Six or seven miles up, and apparently on the north side, some high cliffs of red rock, apparently granite, can be seen. It is said that some miners have prospected this stream, but I could learn nothing definite about it.

Lewes River makes a turn here to the south-west, and runs in that direction six miles, when it again turns to the north-west for seven miles, and then makes a

short, sharp turn to the south and west around a low sandy point, which will at some day in the near future be cut through by the current, which will shorten the river three or four miles.

Eight miles below Little Salmon River a large rock called the Eagle's Nest stands up in a gravel slope on the easterly bank of the river. It rises about 500 feet above the river and is composed of a light grey stone. What the character of this rock is I could not observe, as I saw it only from the river, which is about a quarter of a mile distant. On the westerly side of the river there are two or three other isolated masses of apparently the same kind of rock. One of them might appropriately be called a mountain; it is south-west from the Eagle's Nest, and distant from it about three miles.

Thirty-two miles below Eagle's Nest Rock, Nordenskiöld River enters from the west. It is an unimportant stream, being not more than one hundred and twenty feet wide at the mouth, and only a few inches deep. The valley as far as can be seen, is not extensive, and being very crooked it is hard to tell what its general direction is.

The Lewes between the Little Salmon and the Nordenskiöld maintains a width of from two to three hundred yards, with an occasional expansion where there are islands. It is serpentine in its course most of the way, and where the Nordenskiöld joins it is very crooked, running several times under a hill, named by Schwatka Tantalus Butte, and in other places leaving it, for a distance of eight miles. The distance across from point to point is only half a mile.

Below this to Rink Rapids, as called by Schwatka, or Five Finger Rapids by the miners, from the fact that five large masses of rock stand in mid channel, the river assumes its ordinary straightness and width, with a current from four to five miles per hour. I have already described Rink Rapids; I do not think they will prove anything more than a slight obstruction in the navigation of the river. A boat of ordinary power would probably have to help herself up with windlass and line in high water.

Below the rapids, for about two miles, the current is strong—probably six miles per hour—but the water seems to be deep enough for any boat that is likely to navigate it.

Six miles below this, as already noticed, "Little Rapids" are situated. They are of no great importance, the westerly half of the stream only being obstructed. The easterly half is not in any way affected, the current being smooth and the water deep.

Below Rink Rapids about two miles a small stream enters from the east. It is called by Dr. Dawson Tatshun River. It is not more than 30 or 40 feet wide at the mouth, and contains only a little clear, brownish water. Here I met the only Indians seen on the river between Tes-lin-too and Stewart Rivers. They were engaged in catching salmon at the mouth of the Tatshun, and were the poorest and most unintelligent Indians it has ever been my lot to meet. It is needless to say that none of our party understood anything they said, as they could not speak a word of any language but their own. I tried by signs to get some information from them about the stream they were fishing on, but failed. I tried in the same way to learn if there were any more Indians in the vicinity, but again utterly failed. I then tried by signs to find out how many days it took to go down to Pelly River, but although I have never known these signs to fail in eliciting information in any other part of the territory, they did not understand. They appeared to be alarmed by our presence; and, as we had not yet been assured as to the rumor concerning the trouble between the miners and Indians, we felt a little apprehensive, but being able to learn nothing from them we had to put our fears aside and proceed blindly.

Between Rink Rapids and Pelly River, fifty-eight and a half miles, no streams of any importance enter the Lewes; in fact, with the exception of the Tatshun, it may be said that none at all enter.

About a mile below Little Rapids the river spreads out into a lake-like expanse, with many islands; this continues for about three miles, when it contracts

to something like the usual width; but bars and small islands are very numerous all the way to Pelly River. About five miles above Pelly River there is another lake-like expanse filled with islands. The river here for three or four miles is nearly a mile wide, and so numerous and close are the islands that it is impossible to tell when floating among them where the shores of the river are. The current, too, is swift, leading one to suppose the water shallow; but I think even here a channel deep enough for such boats as will navigate this part of the river can be found. Schwatka named this group of islands "Ingersoll Islands."

At the mouth of the Pelly the Lewes is about half a mile wide, and here too there are many islands, but not in groups as at Ingersoll Islands.

About a mile below the Pelly, just at the ruins of Fort Selkirk, the Lewes was found to be 565 yards wide; about two-thirds being ten feet deep, with a current of about four and three-quarter miles per hour; the remaining third was more than half taken up by a bar, and the current between it and the south shore was very slack.

Pelly River at its mouth is about two hundred yards wide, and continues of this width as far up as could be seen. Dr. Dawson made a survey and examination of this river, which will be found in his report already cited, "Yukon District and Northern British Columbia."

Just here for a short distance the course of the Yukon-Pelly is nearly west, and on the south side, about a mile below the junction with the Lewes, stands all that remains of the only trading post ever built by white men in the district. This post was established by Robert Campbell for the Hudson's Bay Company in the summer of 1848. It was first built on the point of land between the two rivers, but this location proving untenable on account of flooding by ice jams in the spring, it was in the season of 1852 moved across the river to where the ruins now stand. It appears that the houses composing the post were not finished, when the Indians from the coast on Chilkat and Chilkoot Inlets came down the river to put a stop to the competitive trade, which Mr. Campbell had inaugurated, and which they found to seriously interfere with their profits. Their method of trade appears to have been then pretty much as it is now—very one sided. What they found it convenient to take by force they took, and what it was convenient to pay for at their own price they paid for.

Rumors had reached the post that the coast Indians contemplated such a raid, and in consequence the native Indians in the vicinity remained about nearly all summer. Unfortunately, however, they went away for a short time, and during their absence the coast Indians arrived, in the early morning, and surprised Mr. Campbell in bed. They were not at all rough with him, but gave him the privilege of leaving the place within twenty-four hours, after which he was informed that he was liable to be shot if seen by them in the locality. They then pillaged the place and set fire to it, leaving nothing but the remains of the two chimneys which are still standing. This raid and capture took place on the 1st August, 1852.

Mr. Campbell dropped down the river, and met some of the local Indians, who returned with him, but the robbers had made their escape. I have heard that the local Indians wished to pursue and overtake them, but to this Mr. Campbell would not consent. Had they done so it is probable not many of the raiders would have escaped, as the superior local knowledge of the natives would have given them an advantage difficult to estimate, and the confidence and spirit derived from the aid and presence of a white man or two would be worth much in such a conflict.

Mr. Campbell went on down the river until he met the outfit for his post on its way up from Fort Yukon, which he turned back. He then ascended the Pelly, crossed to the Liard, and reached Fort Simpson, on the Mackenzie, late in October.

Mr. Campbell's first visit to the site of Fort Selkirk was made in 1840 under instructions from Sir George Simpson, then Governor of the Hudson's Bay Company. He crossed from the head waters of the Liard to the waters of the Pelly. It appears the Pelly, where he struck it, was a stream of considerable size, for he speaks of its appearance when he first saw it from "Pelly Banks," the name given the bank

from which he first beheld it, as a "splendid river in the distance." In June, 1843, he descended the Pelly to its confluence with the main stream, which he named the "Lewes." Here he found many families of the native Indians—"Wood Indians," he called them. These people conveyed to him, as best they could by word and sign, the dangers that would attend a further descent of the river, representing that the country below theirs was inhabited by a tribe of fierce cannibals, who would assuredly kill and eat them. This so terrified his men that he had to return by the way he came, pursued, as he afterwards learned, by the Indians, who would have murdered himself and party had they got a favorable opportunity. Thus it was not until 1850 that he could establish, what he says he all along believed, "that the Pelly and Yukon were identical." This he did by descending the river to where the Porcupine joins it, and where in 1847, Fort Yukon was established by Mr. A. H. Murray for the Hudson's Bay Company.

Mr. Campbell then named the river he had discovered and explored from the height of land to the junction with the Porcupine, "Pelly River," and had it delineated and so named on a map of that part of the country, drawn by J. Arrow-smith, the topographer for the Hudson's Bay Company, in 1853.

With reference to the tales told him by the Indians of bad people outside of their country, I may say that Mackenzie tells pretty much the same story of the Indians on the Mackenzie when he discovered and explored that river in 1789. He had the advantage of having Indians along with him whose language was radically the same as that of the people he was coming among, and his statements are more explicit and detailed. Everywhere he came in contact with them they manifested, first, dread of himself and party, and when friendship and confidence were established they nearly always tried to detain him by representing the people in the direction he was going as unnaturally bloodthirsty and cruel, sometimes asserting the existence of monsters with supernatural powers, as at Manitou Island, a few miles below the present Fort Good Hope, and the people on a very large river far to the west of the Mackenzie, probably the Yukon, they described to him as monsters in size, power, and cruelty.

In our own time, after all the intercourse that there has been between them and the whites, more than a suspicion of such unknown, cruel people lurks in the minds of many of the Indians. It would be futile for me to try to ascribe an origin for these fears, my knowledge of their language and idiosyncrasies being so limited.

Nothing more was ever done in the vicinity of Fort Selkirk by the Hudson's Bay Company after these events, and in 1869 the Company was ordered by Capt. Charles W. Raymond, who represented the United States Government, to evacuate the post at Fort Yukon, he having found that it was west of the 141st. meridian. The post was occupied by the Company, however, for some time after the receipt of this order, and until Rampart House was built, which was intended to be on British territory, and to take the trade previously done at Fort Yukon.

Under present conditions the Company cannot very well compete with the Alaska Fur Company, whose agents do the only trade in the district, and they appear to have abandoned—for the present at least—all attempt to do any trade nearer to it than Rampart House, to which point, notwithstanding the distance and difficulties in the way, many of the Indians on the Pelly-Yukon make a trip every two or three years to procure goods in exchange for their furs. The clothing and blankets brought in by the Hudson's Bay Company they claim are much better than those traded on their own river by the Americans. Those of them that I saw who had any English blankets exhibited them with pride, and exclaimed "good." They point to an American blanket in contempt, with the remark "no good," and speak of their clothing in the same way.

On many maps of Alaska a place named "Reid's House" is shown on or near the upper waters of Stewart River. I made inquiries of all whom I thought likely to know anything concerning this post, but failed to elicit any information showing that there ever had been such a place. I enquired of Mr. Reid, who was in the Company's service with Mr. Campbell at Fort Selkirk, and after whom I thought, possibly,

the place had been called, but he told me he knew of no such post, but that there was a small lake at some distance, in a northerly direction, from Fort Selkirk, where fish were procured. A sort of shelter had been made at that point for the fishermen, and a few furs might have been obtained there, but it was never regarded as a trading post.

Below Fort Selkirk the Pelly-Yukon River is from five to six hundred yards broad, and maintains this width down to White River, a distance of ninety-six miles. Islands are numerous, so much so that there are very few parts of the river where there are not one or more in sight. Many of them are of considerable size, and nearly all are well timbered. Bars are also numerous, but almost all are composed of gravel, so that navigators will not have to complain of shifting sand bars. The current, as a general thing, is not so rapid as in the upper part of the river, averaging about four miles per hour. The depth in the main channel was always found to be more than six feet.

From Pelly River to within twelve miles of White River the general course of the river is a little north of west; it then turns to the north, and the general course as far as the site of Fort Reliance is due north.

White River enters the main river from the west. At the mouth it is about two hundred yards wide, but a great part of it is filled with ever-shifting sand bars, the main volume of water being confined to a channel not more than one hundred yards in width. The current is very strong, certainly not less than eight miles per hour. The color of the water bears witness to this, as it is much the muddiest that I have ever seen.

I had intended to make a survey of part of White River, as far as the International Boundary, and attempted to do so; but, after trying for over half a day, I found it would be a task of much labor and time, altogether out of proportion to the importance of the end sought, and therefore abandoned it. The valley, as far as can be seen from the mouth, runs about due west for a distance of eight miles; it then appears to bear to the south-west; it is about two miles wide where it joins the Pelly valley, and apparently keeps the same width as far as it can be seen.

Mr. Harper, of the firm of Harper, McQuestion & Co., went up this river with sleds in the fall of 1872 a distance of fifty or sixty miles. He described it as possessing the same general features all the way up, with much clay soil along its banks. Its general course, as sketched by him on a map of mine, is for a distance of about thirty miles a little north-west, thence south-west thirty or thirty-five miles, when it deflects to the north-west, running along the base of a high mountain ridge. If the courses given are correct it must rise somewhere near the head of Forty Mile River; and if so, its length is not at all in keeping with the volume of its discharge, when compared with the known length and discharge of other rivers in the territory. Mr. Harper mentioned an extensive flat south of the mountain range spoken of, across which many high mountain peaks could be seen. One of these he thought must be Mount St. Elias, as it overtopped all the others, but as Mount St. Elias is about one hundred and eighty miles distant his conclusion is not tenable. From his description of this mountain it must be more than twice the height of the highest peaks seen anywhere on the lower river, and consequently must be ten or twelve thousand feet above the sea. He stated that the current in the river was very swift, as far as he ascended, and the water muddy. The water from this river, though probably not a fourth of the volume of the Pelly-Yukon, discolors the water of the latter completely; and a couple of miles below the junction the whole river appears almost as dirty as White River.

Between White and Stewart Rivers, ten miles, the river spreads out to a mile and upwards in width, and is a maze of islands and bars. The survey was carried down the easterly shore, and many of the channels passed through barely afforded water enough to float the canoes. The main channel is along the westerly shore, down which the large boat went, and the crew reported plenty of water.

Stewart River enters from the east, in the middle of a wide valley, with low hills on both sides, rising on the north side in steps or terraces to distant hills of considerable height. The river, half a mile or so above the mouth, is two hundred

yards in width. The current is slack and the water shallow and clear, but dark colored.

While at the mouth I was fortunate enough to meet a miner who had spent the whole of the summer of 1887 on the river and its branches prospecting and exploring. He gave me a good deal of information of which I give a summary. He is a native of New Brunswick, Alexander McDonald by name, and has spent some years mining in other places, but was very reticent about what he had made or found. Sixty or seventy miles up the Stewart a large creek enters from the south, which he called Rose Bud Creek or River, and thirty or forty miles further up a considerable stream flows from the north-east, which appears to be Beaver River, as marked on the maps of that part of the country. From the head of this stream he floated down on a raft, taking five days to do so. He estimated his progress at forty to fifty miles each day, which gives a length of from two hundred to two hundred and fifty miles. This is probably an overestimate, unless the stream is very crooked, which he stated was not the case. As much of his time would be taken up in prospecting, I should call thirty miles or less a closer estimate of his progress. This river was from fifty to eighty yards wide and was never more than four or five feet deep, often being not more than two or three; the current, he said, was not at all swift. Above the mouth of this stream the main river is from one hundred to one hundred and thirty yards wide with an even current and clear water. Sixty or seventy miles above the last mentioned branch another large branch joins, which is possibly the main river. At the head of it he found a lake nearly thirty miles long and averaging a mile and a half in width, which he called Mayhew Lake, after one of the partners in the firm of Harper, McQuestion & Co. He explored the lake and the head of the river, but saw only the lower part of the river near its mouth.

Thirty miles or so above the forks on the other branch there are falls, which McDonald estimated to be from one to two hundred feet in height. I met several parties who had seen these falls, and they corroborate this estimate of their height. McDonald went on past the falls to the head of this branch and found terraced gravel hills to the west and north; he crossed them to the north, and found a river flowing northward. On this he embarked on a raft and floated down it for a day or two, thinking it would turn to the west and join the Stewart, but finding it still continuing north, and acquiring too much volume to be any of the branches he had seen while passing up the Stewart, he returned to the point of his departure, and after prospecting among the hills around the head of the river he started westward, crossing a high range of mountains composed principally of shales with many thin seams of what he called quartz ranging from one to six inches in thickness.

On the west side of this range he found a river flowing out of what he called Mayhew Lake, and crossing this got to the head of Beaver River, which he descended as before mentioned.

It is probable the river flowing northwards, on which he made a journey and returned, was a branch of Peel River. He described the timber on the gravel terraces of the water-shed as small and open. He was alone in this unknown wilderness all summer, not seeing even any of the natives. There are few men so constituted as to be capable of isolating themselves in such a manner. Judging from all I could learn it is probable a light-draught steamboat could navigate nearly all of Stewart River and its tributaries.

From Stewart River to the site of Fort Reliance, seventy-three and a quarter miles, the Pelly-Yukon is broad and full of islands. The average width is between a half and three quarters of a mile, but there are many expansions where it is over a mile in breadth; however, in these places it cannot be said that the waterway is wider than at other parts of the river, the islands being so large and numerous. In this reach no streams of any importance enter.

About thirteen miles below Stewart River a large valley joins that of the river, but the stream occupying it is only a large creek. This agrees in position with what has been called Sixty Mile Creek, which was supposed to be about that distance above



Fort Reliance, but it does not agree with descriptions which I received of it; moreover, as Sixty Mile Creek is known to be a stream of considerable length, this creek would not answer its description.

Twenty-two and a half miles from Stewart River another and larger creek enters from the same side; it agrees with the descriptions of Sixty Mile Creek, and I have so marked it on my map. This stream is of no importance, except for what mineral wealth may be found on it.

Six and a half miles above Fort Reliance the Ton-dag River of the Indians (Deer River of Schwatka) enters from the east. It is a small river about forty yards wide at the mouth, and shallow; the water is clear and transparent, and of a beautiful blue color. The Indians catch great numbers of salmon here. They had been fishing shortly before my arrival, and the river, for some distance up, was full of salmon traps.

A miner had prospected up this river for an estimated distance of forty miles in the season of 1887. I did not see him, but got some of his information at second hand. The water being so beautifully clear I thought it must come through a large lake not far up; but as far as he had gone no lakes were seen. He said the current was comparatively slack, with an occasional "ripple" or small rapid. Where he turned back the river is surrounded by high mountains, which were then covered with snow, which accounts for the purity and clearness of the water.

It appears that the Indians go up this stream a long distance to hunt, but I could learn nothing definite as to their statements concerning it.

Twelve and a half miles below Fort Reliance, the Chan-din-du River, as named by Schwatka, enters from the east. It is thirty to forty yards wide at the mouth, very shallow, and for half a mile up is one continuous rapid. Its valley is wide and can be seen for a long distance looking north-eastward from the mouth.

Between Fort Reliance and Forty Mile River (called Cone Hill River by Schwatka) the Lewes assumes its normal appearance, having fewer islands and being narrower, averaging four to six hundred yards wide, and the current being more regular. This stretch is forty-six miles long, but was estimated by the traders at forty, from which the Forty Mile River took its name.

Forty Mile River joins the main river from the west. Its general course as far up as the International Boundary, a distance of twenty-three miles, is south-west; after this it is reported by the miners to run nearer south. Many of them claim to have ascended this stream for more than one hundred miles, and speak of it there as quite a large river. They say that at that distance it has reached the level of the plateau, and the country adjoining it they describe as flat and swampy, rising very little above the river. It is only a short distance across to the Tanana River—a large tributary of the Yukon—which is here described as an important stream. However, only about twenty-three miles of Forty Mile River are in Canada; and the upper part of it and its relations to other rivers in the district have no direct interest for us.

Forty Mile River is one hundred to one hundred and fifty yards wide at the mouth, and the current is generally strong, with many small rapids. Eight miles up is the so called cañon; it is hardly entitled to that distinctive name, being simply a crooked contraction of the river, with steep rocky banks, and on the north side there is plenty of room to walk along the beach. At the lower end of the cañon there is a short turn and swift water in which are some large rocks; these cannot generally be seen, and there is much danger of striking them running down in a boat. At this point several miners have been drowned by their boats being upset in collision with these rocks. It is no great distance to either shore, and one would think an ordinary swimmer would have no difficulty in reaching land; but the coldness of the water soon benumbs a man completely and renders him powerless. In the summer of 1887 an Indian from Tanana, with his family, was coming down to trade at the post at the mouth of Forty Mile River; his canoe struck on these rocks and upset, and he was thrown clear of the canoe, but the woman and children clung to it. In the rough water he lost sight of them, and concluding that they were lost it is said he deliberately drew his knife and cut his throat, thus perishing, while his family

were hauled ashore by some miners. The chief of the band to which this Indian belonged came to the post and demanded pay for his loss, which he contended was occasioned by the traders having moved from Belle Isle to Forty Mile, thus causing them to descend this dangerous rapid, and there is little doubt that had there not been so many white men in the vicinity he would have tried to enforce his demand.

The length of this so called cañon is about a mile. Above it the river up to the Boundary is generally smooth, with swift current and an occasional ripple. The amount of water discharged by this stream is considerable; but there is no prospect of navigation, it being so swift and broken by small rapids.

From Forty Mile River to the Boundary the Pelly-Yukon preserves the same general character as between Fort Reliance and Forty Mile, the greatest width being about half a mile and the least about a quarter.

Fifteen miles below Forty Mile River a large mass of rock stands on the east bank. This was named by Schwatka "Roquette Rock," but is known to the traders as Old Woman Rock, a similar mass of rock on the west side of the river being known as Old Man Rock.

The origin of these names is an Indian legend, of which the following is the version given to me by the traders :—

In remote ages there lived a powerful Showman, pronounced Tshaumen by the Indians, this being the local name for what is known as medicine man among the Indians farther south and east. The Tshaumen holds a position and exercises an influence among the people he lives with, something akin to the wise men or magi of olden times in the East. In this powerful being's locality there lived a poor man who had the great misfortune to have an inveterate scold for a wife. He bore the infliction for a long time without murmuring, in hopes that she would relent, but time seemed only to increase the affliction; at length, growing weary of the unceasing torment, he complained to the Tshaumen, who comforted him and sent him home with the assurance that all would soon be well.

Shortly after this he went out to hunt, and remained away many days endeavoring to get some provisions for home use, but without avail; he returned weary and hungry, only to be met by his wife with a more than usually violent outburst of scolding. This so provoked him that he gathered all his strength and energy for one grand effort and gave her a kick that sent her clear across the river. On landing she was converted into the mass of rock which remains to this day a memorial of her viciousness and a warning to all future scolds. The metamorphosis was effected by the Tshaumen, but how the necessary force was acquired to send her across the river (here about half a mile wide), or whether the kick was administered by the Tshaumen or the husband, my narrator could not say. He was also altogether at a loss to account for conversion of the husband into the mass of rock on the west side of the river; nor can I offer any theory, unless it is that he was *petrified* by astonishment at the result.

Such legends as this would be of interest to ethnologists if they could be procured direct from the Indians, but repeated by men who have little or no knowledge of the utility of legendary lore, and less sympathy with it, they lose much of their value.

Between Forty Mile River and the Boundary line no stream of any size joins the Pelly; in fact, there is only one stream, which some of the miners have named Sheep Creek, but as there is another stream farther down the river, called by the same name, I have named it Coal Creek. It is five miles below Forty Mile, and comes in from the east, and is a large creek but not at all navigable. On it some extensive coal seams were seen, which will be more fully referred to further on.

At the observatory, three miles above the Boundary, a cross section of the Tlewes River was measured. It was made on the 28th of November and reduced to the height at which the water stood when I reached that place. Holes were cut in the ice at intervals of 100 feet and the depth of water measured with a pole. The measurements commenced at the easterly shore, and were as follows: at 100 feet from water's edge, depth 10'00 feet; at 200 feet, depth 16'33 feet; at 300 feet, depth

23·00 feet; at 400 feet, depth 25·00 feet; at 500 feet, depth 25·50 feet; at 600 feet, depth 21·00 feet; at 700 feet, depth, 16·55 feet; at 800 feet, depth 11·25 feet; at 900 feet, depth 6·25 feet; at 1,000 feet, depth 3·75 feet; at 1,100 feet, depth 3·50 feet; at 1,200 feet, depth 3·50 feet; at 1,300 feet, depth 3·50 feet; at 1,400 feet, depth 3·25 feet; at 1,500 feet, depth 3·75 feet; at 1,600 feet, depth 4·00 feet; at 1,700 feet, depth 5·33 feet; at 1,800 feet, depth 6·80 feet; at 1,900 feet, depth 7·00 feet; at 2,000 feet, depth 10·50 feet; at 2,100 feet, depth 10·25 feet; at 2,200 feet, depth 4·00 feet; at 2,250 feet, water's edge.

At the Boundary the river is somewhat contracted, and measures only 1,280 feet across in the winter; but in summer, at ordinary water level, it would be about one hundred feet wider. Immediately below the Boundary it expands to its usual width, which is about 2000 feet. The area of the cross section measured is 22,268 feet; the sectional area of the Tes-lin-too, as determined by Dr. Dawson and already referred to, is 3,809 feet; that of the Lewes at the Tes-lin-too, from the same authority, is 3,015 feet. Had the above cross section been reduced to the level at which the water ordinarily stands during the summer months, instead of to the height at which it stood in the middle of September when it was almost at its lowest, the sectional area would have been at least 50 per cent. more, and at spring flood level about double the above area.

It is a difficult matter to determine the actual discharge at the place of the cross section, owing to the irregularity in the depth and current, the latter being in the deep channel at the east side, when I tried it in September, approximately 4·8 miles per hour; while on the bar in midstream it was not more than 2·5 miles per hour; and between the bar and the westerly shore there was very little current.

The river above this for some miles was no better for the purpose of cross section measurement. At the Boundary it is narrow and clear of bars and islands for some miles, but here I did not have an opportunity to determine the rate of the current before the river froze up, and after it froze the drift ice was jammed and piled so high that it would have been an almost endless task to cut holes through it.

Taking the sectional area of the deep part alone and the rate of current above stated, and calculating by the approximate formulæ used by Dr. Dawson, as given in Trautwine's Engineer's Pocket-Book, p. 562, the discharge in cubic feet per second is 90,864, or about three times that of the Lewes and Tes-lin-too together, as determined by Dr. Dawson. The discharge of the rest of the channel would approximate only 14,000 feet—in all about 105,000 feet. At summer level with an increased sectional area and current it would approximate 60 per cent more, or close to 170,000 feet per second. At high water level it would at least be eight to ten feet deeper, and we can only conjecture what the current would be, but I think it is safe to assume at least 80 per cent. more discharge, which would give us roughly 300,000 feet per second. For the sake of comparison, I give the discharge of the St. Lawrence and Ottawa Rivers, being the mean of the years 1867 to 1882: St. Lawrence, mean 900,000 feet; Ottawa, at Grenville, mean 85,000 feet. The point where cross section was measured is less than seven hundred miles from the head of Lewes River, and from the head of the Tes-lin-too probably eight hundred.

The current, from the Boundary down to the confluence with the Porcupine, is said to be strong, and much the same as that above; from the Porcupine down for a distance of five or six hundred miles it is called medium, and the remainder easy.

On the 22nd September a small steamboat named the "New Racket" passed my camp on her way up to Forty Mile River with supplies; she was about forty feet long and nine or ten feet beam, with about two feet draught. The boat was wholly taken up with engine and boiler, the berths for the crew being over the engine room. The propelling power was a stern wheel driven by two engines of large size for such a small boat. It was claimed for her by her Captain, A. Mayhew, of the firm of Harper, McQuestion & Co., that she could make ten miles an hour in dead water. She was then twenty-two days out from St. Michel's Island, near the mouth of the river. Mr. Mayhew claimed that this was longer than usual, on account of the boiler tubes being out of order and leaking badly, so that it was impossible to keep more than fifty

pounds pressure, while that generally used was about double. That this was true was apparent from the fact that it took her about five hours to make four miles; and, at one place below my camp, she hung for over an hour without making any progress at all, nor could she pass that point until she stopped and bottled up steam.

After reaching Forty Mile River this boat started up the stream to Stewart River, with supplies for the few miners who intended to winter there, and materials for the Indian fur trade. Some miners who intended to spend the summer of 1888 mining on Stewart River took passage up on her; but after trying for nearly two days it was found impossible, loaded as she was, to make any headway, so she returned, discharged her passengers, and finally reached Stewart River light. Here the owners intended to lay her up and give her a thorough overhauling before the commencement of next season's navigation. Three other steamboats which navigate the river, the "Yukon," the "St. Michel," and the "Explorer," belong to the Alaska Commercial and Fur Trading Company. These boats are small, and carry little or no freight themselves, but tow loaded barges. Their space is entirely devoted to engine and boiler, and they are driven by a stern wheel. Messrs Harper, McQuestion & Co. expected the Alaska Commercial and Fur Trading Company to put a larger boat on the river in the season of 1888; one that would carry one hundred and twenty to two hundred tons of freight, and make five to seven miles per hour up stream on the upper river. The other boats do not make more than three or four miles per hour, and often not that. None of these boats had passed Stewart River while I was there, nor is it probable they have since done so.

From Stewart River to the mouth of the Yukon is about 1,650 miles, and the only difficult place in all this distance is the part near the confluence with the Porcupine, which has evidently been a lake in past ages, but is now filled with islands: it is said that the current here is swift, and the channels generally narrow, rendering navigation difficult.

During my stay at the Boundary, readings of the barometer were taken twice daily—at 7:30 a.m. and at 1:30 p.m. These readings are complete for the months of October, November, and December, 1887, and January and February, 1888. I have obtained from Mr. Carpmal, the Director of the Meteorological Service, the readings for the same months at Victoria, B.C., Fort Simpson, B.C., and Sitka, Alaska. The readings at Victoria were taken at 8 a.m. and 2 p.m., those at Fort Simpson at 7 a.m. and 2 p.m., and those at Sitka are given as the daily mean. I took no observation to determine the humidity of the atmosphere; consequently in deducing the height of my station above sea level the correction due to the difference in tension of the vapor in the atmosphere at the different places will have to be neglected. Even had we all the data used in determining the differences of height from the differences of barometer readings, it would be little more than a waste of time to employ it in this case, the distances between the stations being so great. The distance between Sitka and the Boundary is about 560 miles in an air line, with a difference of latitude of nearly  $7\frac{1}{2}$  degrees; Fort Simpson is distant about 760 miles in an air line with a difference of latitude of 10 degrees. The difference in time between Sitka and the Boundary is about twenty-three minutes, and between the Boundary and Fort Simpson forty-two minutes. The readings at the latter place were therefore taken in the morning sixty-five minutes before mine and in the afternoon twelve minutes before.

The temperature of the attached thermometer was recorded with every barometer reading, but the barometer readings were not corrected for temperature, but entered as read, which will suit every purpose as well. I have used the mean of the barometer readings for the month at each of the two daily observations, corrected for the mean of the temperature readings observed at the same time, and in comparing with Sitka I have used the mean of the two daily readings.

Victoria is distant about 1,240 miles in an air line, with a difference of latitude  $16\frac{1}{2}$  degrees, and a difference in time of about an hour and ten minutes; the value of a height deduced from differences of barometer readings at this distance and extending only over a few months will not be of any definite value. Even the closest of

the points, Sitka, will not under the circumstances give more than a poor approximation, but as they are the best—in fact, the only measures we have at the place—they have to be accepted. Using this determination, and the known height of Bennet Lake above the sea, I have interpolated for the heights of the several points of interest along the river.

Taking the height due to difference of barometer reading alone, and neglecting all the other terms in the formula employed, the heights deduced from the mean of each month compared with each of the above places would stand as follows:—

	Sitka. ft.	Fort Simpson. ft.	Victoria. ft.
October.....	864	1,045	1,198
November .....	843	836	1,061
December.....	525	610	751
January.....	224	561	607
February.....	928	845	1,056
Mean.....	677	779	934

My readings have been corrected for the monthly mean reading of the attached thermometer, but not for capillarity, as I had no corrections furnished for that error, and I do not know what the bore of the tube was, as unfortunately it was broken before I could get it home. However, as it was large—apparently about half an inch in diameter—this source of error would not effect the result more than 10 or 12 feet.

These values show the unreliability of barometric measurements of heights when the points are so far apart and the observations extend only over short intervals of time.

One of my thermometers was broken soon after starting, and I had no means of determining the relative humidity of the air, but at my station this was not material during the term of my observations, the temperature being so low. The mean minimum for October was 18°·5; for November —5°·1; for December —33°·6°, mean for 1.30 p.m. —27°·6; for January, —25°·3, for 1.30 p.m. —15°·3; for February, —16°·8°, for 1.30 p.m. —4°·3.

The means of the two readings at Fort Simpson and Victoria and the mean readings at Sitka, with the means of the readings at my station corrected for temperature, stand as follows in their order for the months mentioned:—

	Victoria.	Fort Simpson.	Sitka.	Boundary.
October .....	30·152	29·984	29·777	28·813
November .....	30·024	29·835	29·812	28·865
December .....	29·911	29·737	29·661	29·058
January.....	29·975	29·933	29·546	29·296
February.....	30·133	29·876	29·987	28·943

From these it would appear that the reading for the month of January was abnormally high at my station; rejecting it, the mean of the other four months compared with Sitka is 790 feet. The mean of the three comparisons is 797 feet.

As Sitka is much the nearest point, the temperatures will be correspondingly nearer those of my station, and the hygrometric conditions nearer to mine than at the other places referred to. I have therefore adopted the mean of the four months—October, November, December, and February—which compared with Sitka gives 790 feet.

The height of the confluence of Yukon and Porcupine Rivers is marked on the manuscript map furnished for my guidance as 412 feet above the sea. It is not stated who is the authority for this; but, presumably, it is Capt. C. W. Raymond, of the United States Corps of Engineers, who spent some time there in the summer of 1869. As this point is twelve or thirteen hundred miles by the river from the sea, and for more than half of the distance the current is said to be pretty strong, it is not

probable that the altitude is less than this. Assuming it as 412 feet, we have a fall of 378 feet between the Boundary and that point: the distance between them is about 200 miles, which gives a fall of 1.9 feet per mile in that part of the river.

As already stated, the height of the summit of Taiya Pass is 3,378 feet above the head of canoe navigation on Taiya River, and the latter is assumed to be 120 feet above the sea, making the summit 3,498 feet above tide water. The summit is 1,354 feet above Lake Lyndeman, which gives 2,144 feet for the altitude of this lake. Between it and Lake Bennet there is a fall of 12 or 14 feet. This gives the altitude of Lake Bennet as 2,130 feet, which must be within a very few feet of the exact height.

The corrected distance from the head of Lake Bennet to the Boundary is 639.5 miles. Of this 95.4 miles is lake, leaving 544.1 miles of river. Of this 2.7 miles is the cañon and its rapids, in which there is a fall of 32 feet. Excluding this we have 541.4 miles of river, with a fall of 1,308 feet.

Assuming the rate of descent to be uniform in this distance we have a fall of 2.41 feet per mile. The rate of descent is, of course, not uniform, but the error in the height of any place, deduced from its distance with this rate of fall, will not be very great.

Proceeding thus we get the altitude of Marsh or Mud Lake, 2,118 feet; the head of the cañon, 2,056 feet; the foot of cañon, 2,024 feet; the mouth of Tahk-heena River, 1,990 feet; Lake Labarge, 1,959 feet; Tes-lin-too River, 1,873 feet; Big Salmon River, 1,787 feet; Little Salmon River, 1,700 feet; Rink Rapids, 1,556 feet; Pelly River, 1,425 feet; White River, 1,194 feet; Stewart River, 1,170 feet; Fort Reliance, 993 feet; Forty Mile River, 882 feet.

#### AGRICULTURAL CAPABILITIES OF THE PELLY-YUKON BASIN.

The agricultural capabilities of the country along the river are not great, nor is the land which can be seen from the river of good quality.

When we consider further the unsuitable climatic conditions which prevail in the region it may be said that as an agricultural district this portion of the country will never be of value.

My meteorological records show over eight degrees of frost on the 1st of August, over ten on the 3rd, and four times during the month the minimum temperature was below freezing. On the 13th September the minimum temperature was 16°, and all the minimum readings for the remainder of the month were below freezing.

Along the east side of Lake Bennet, opposite the Chilkoot or western arm, there are some flats of dry, gravelly soil, which would make a few farms of limited extent. On the west side, around the mouth of Wheaton River, there is an extensive flat of sand and gravel, covered with small pine and spruce of stunted growth. The vegetation is poor and sparse, not at all what one would desire to see on a place upon which he was thinking of settling. At the lower end of the lake there is another extensive flat of sandy soil, thinly clad with small poplars and pines. The same remarks apply to this flat as to that at Wheaton River.

Along the westerly shore of Tagish Lake there is a large extent of low, swampy flats, a part of which might be used for the production of such roots and cereals as the climate would permit. Along the west side of Marsh Lake there is also much flat surface of the same general character, on which I saw some coarse grass which would serve as food for cattle. Along the east side the surface appeared higher and terraced, and is probably less suited to the requirements of the agriculturalist. Along the head of the river, for some miles below Marsh Lake, there are flats on both sides, which would, as far as surface conformation goes, serve for farms. The soil is of much better quality than any heretofore seen, as is proved by the larger and thicker growth of timber and underbrush which it supports. The soil bears less the character of detritus, and more that of alluvium, than that seen above.

As we approach the cañon the banks become higher and the bottom lands narrower, with some escarpments along the river. At the cañon the bank on the west side rises two hundred feet and upwards above the river, and the soil is light and

sandy. On the east side the bank is not so high, but the soil is of the same character, and the timber small and poor, being nearly all stunted pine.

Between the cañon and Lake Labarge, as far as seen from the river, there is not much land of value. The banks are generally high, and the soil light and sandy. At the head of the lake there is an extensive flat, partly covered with timber, much larger and better than any seen above this point. Poplar eight and ten inches in diameter were not uncommon, and some spruce of fifteen and sixteen inches, and many of upwards of a foot in diameter, were also noticed. The soil, however, is light, and the vegetation, especially the grass, thin and poor.

Some miles down the lake an extensive valley joins that of the lake on the west side. This valley contains a small stream. Around this place there is some land that might be useful, as the grass and vegetation is much better than any seen so far.

On the lower end of the lake, on the west side, there is also a considerable plain which might be utilized; the soil in parts of it is good. I saw one part where the timber had been burned some time ago; here, both the soil and vegetation were good, and two or three of the plants seen are common in this part of Ontario, but they had not the vigorous appearance which the same plants have here.

Northward from the end of the lake there is a deep, wide valley, which Dr. Dawson has named "Ogilvie Valley." In this the mixed timber, poplar and spruce, is of a size which betokens a fair soil; the herbage, too, is more than usually rich for this region. This valley is extensive, and, if ever required as an aid in the sustenance of our people, will figure largely in the district's agricultural assets.

Below the lake the valley of the river is not as a rule wide, and the banks are often steep and high. There are, however, many flats of moderate extent along the river, and at its confluence with other streams. The soil of many of these is fair.

About forty miles above the mouth of Pelly River there is an extensive flat on both sides of the Lewes. The soil here is poor and sandy, with small open timber. At Pelly River there is a flat of considerable extent on which the ruins of Fort Selkirk stand. It is covered with a small growth of poplar and a few spruce. The soil is a gravelly loam of about eight inches in depth, the subsoil being gravel, evidently detritus. This flat extends up the river for some miles, but is all covered thickly with timber, except a small piece around the site of the fort.

On the east side of the river there is also a large plateau, but it is two or three hundred feet above the river, and the soil appears to be poor, judging from the thinness and smallness of the trees. This plateau seems to extend up the Pelly for some distance, and down the Yukon for ten or twelve miles. As seen from the river, it reminds one of the slopes and hills around Kamloops in British Columbia, and like them, though not well suited to agriculture, might yield fair pasturage should such ever be required.

A serious objection to it, however, for that purpose, if it is not watered on the surface by ponds, is that the river is difficult of access, as the plateau on the side towards the river is bounded by a perpendicular basalt cliff, which without artificial arrangement would completely bar approach to the water. This cliff is more than two hundred feet high at the confluence, and becomes lower as we descend the river until, at the lower end, it is not more than sixty to eighty feet high.

Between Pelly and White Rivers there are no flats of any extent. At White River there is a flat of several thousand acres, but it is all timbered, and the surface of the soil is covered with a thick growth of moss, which prevents the frost ever leaving the ground. This has so preserved fallen timber and the foliage of the trees that much of it is lying on the surface nearly as sound as when it fell. On this account the vegetable mould on the gravel is thin and poor. The standing timber also bears witness to the coldness of the soil by its slow and generally small growth. A few trees near the bank, where the sun can heat the soil, are of fair size, but further back they are generally small.

At Stewart River there is another large flat to which the same general remarks are applicable. Thence, to the site at Fort Reliance, there are no flats of any importance. High above the river in some places there are extensive wooded slopes, which,

when cleared, would be well suited for such agricultural purposes as the climate would permit.

At Fort Reliance there is a flat of probably 1,500 acres in extent, but although Messrs. Harper & McQuestion lived there for some years, it appears they never made any agricultural experiments, believing that they would be futile.

At Forty Mile River there is a flat of about four or five hundred acres in area, on which the soil is of better quality than on many of the other places mentioned. On this Messrs. Harper & McQuestion have erected their dwelling and store houses. They gave it as their opinion that only very hardy roots would live through the many cold nights of the summer months, and that the season is so short that even if they survived the cold they would not attain a size fit for use.

The river is not generally clear of ice until between the 25th of May and the 1st of June, and heavy frosts occur early in September, and sometimes earlier.

At the Boundary there are two flats of several hundred acres each, one on the west side, the other three miles above it on the east side. Both of these are covered with poplar, spruce, and white birch, also some willow and small pine.

In making preparations for the foundations of our house at our winter quarters near the Boundary we had to excavate in the bank of the river, and in an exposed place where the sun's rays could reach the surface without hindrance from trees or other shade we found the depth to the perpetually frozen ground to be not more than two feet. In the woods where the ground was covered with over a foot of moss the frozen ground is immediately below the moss. On this the timber is generally small, and of very slow growth, as is evident from the number of annual rings of growth. I have seen trees of only three or four inches in diameter which were upwards of one hundred and fifty years old.

It is difficult to form an estimate of the total area of agricultural land seen, but it certainly bears a very small proportion to the remainder of the country. I think ten townships, or 360 square miles, would be a very liberal estimate for all the places mentioned. This gives us 230,400 acres, or, say 1,000 farms. The available land on the affluents of the river would probably double this, or give 2,000 farms in that part of our territory, but on most of these the returns would be meagre.

Without the discovery and development of large mineral wealth it is not likely that the slender agricultural resources of the region will ever attract attention, at least until the better parts of our territories are crowded.

In the event of such discovery some of the land might be used for the production of vegetable food for the miners; but, even in that case, with the transport facilities which the district commands, it is very doubtful if it could compete profitably with the south and east.

#### TIMBER FOR USE IN BUILDING AND MANUFACTURING.

The amount of this class of timber in the district along the river is not at all important. There is a large extent of forest which would yield firewood, and timber for use in mines, but for the manufacture of lumber there is very little.

To give an idea of its scarceness, I may state that two of my party made a thorough search of all the timbered land around the head of Lake Bennet and down the lake for over ten miles, and in all this search only one tree was found suitable for making such plank as we required for the construction of our large boat. This tree made four planks 15 inches wide at the butt, 7 at the top, and 31 feet long.

Such other planks as we wanted had to be cut out of short logs, of which some, 10 to 14 inches in diameter and 10 to 16 feet long, could be found at long intervals. The boat required only 450 feet of plank for its construction, yet some of the logs had to be carried nearly 200 yards, and two saw-pits had to be made before that quantity was procured, and this on ground that was all thickly wooded with spruce, pine, and some balsam, the latter being generally the largest and cleanest-trunked.

These remarks apply to the timber until we reach the lower end of Marsh Lake. On the head of the river, near the lake, some trees of fair size, 12 to 14



inches in diameter, and carrying their thickness very well, could be got, but their number was small, and they were much scattered.

At the cañon the timber is small and scrubby ; below it there were a few trees that would yield planks from 7 to 10 inches wide, but they have been nearly all cut by the miners, many of whom made rafts at the head of Lake Bennet, floated down to White Horse Rapids, and there abandoned them for boats which they then built.

The great bulk of the timber in the district suitable for manufacture into lumber is to be found on the islands in the river. On them the soil is warmer and richer, the sun's rays striking the surface for a much longer time and more directly than on the banks.

At the confluence with the Pelly, on the east side of the river, there is a grove of spruce, from which some very nice lumber could be made, and on the islands below this much of the same class of timber exists. Near White and Stewart Rivers there is a good deal of nice clean timber, but it is small. It is said there is more good timber on Stewart River in proportion to the ground wooded than on the main river.

Between Stewart River and the Boundary there is not so much surface covered with large trees as on many of the flats above it, the valley being generally narrower, and the sides steeper than higher up the river. This, of course, precludes the growth of timber.

To estimate the quantity of timber in the vicinity of the river in our territory would be an impossible task, having only such data as I was able to collect on my way down. I would, however, say that one fourth of the area I have given as agricultural land would be a fair conjecture. This would give us two and a half townships, or ninety square miles, of fairly well timbered ground ; but it must be borne in mind that there is not more than a square mile or so of that in any one place, and most of the timber would be small and poor compared with the timber of Manitoba and the easterly part of the North West Territories.

At the Boundary Line I required, as has already been explained, a tree 22 inches in diameter at the ground on which to erect my transit. An exhaustive search of over three square miles of the woods there, though showing many trees of convenient size for house logs, and many for small clean planks, showed only one 18 inches in diameter at a distance of 5 feet above the ground.

It may be said that the country might furnish much timber, which, though not fit to be classed as merchantable, would meet many of the requirements of the only industry the country is ever likely to have, viz., mining.

MINERALS.

Under this head I will first mention coal. A thin seam of this was found on Lewes River, about six miles above Five Finger Rapids. This seam was about three feet thick, and at that stage of water was eight or ten feet above the river. It could be traced for several hundred yards along the bank. Dr. Dawson made an examination of this seam, and I quote from his report regarding it : " This exposure includes, within sixty feet of the base of the bluff, at least three coal beds, of which the lowest is about three feet thick. This and the other beds contain some good looking coal, of which a thickness of about a foot sometimes occurs, but the greater part of the material is so sandy and impure as to be useless. The coal has been examined by Mr. G. C. Hoffman, who describes it as a lignite coal, with the following composition :—

Hygroscopic water.....	6.03
Volatile combustible matter.....	36.92
Fixed carbon.....	49.03
Ash .....	8.02
	<hr/>
	100.00
	<hr/>

Six miles below Five Finger Rapids—at Little Rapids—thin seams of coal were seen in some shale on the east bank of the river. They were unimportant, being only an inch or so thick, but they show a probable continuation of the first mentioned bed, and a likelihood that a search would reveal an exposure of some value.

No other trace of coal was seen until Coal Creek, five miles below Forty Mile River, was reached. In the drift at the mouth of this creek I picked up specimens of coal much weathered and worn. I made inquiries of the Indians in the vicinity, but they manifested surprise on my showing it to them and burning some of it before them. They professed entire ignorance of the existence of any such stuff up the creek, and said they had never seen or heard of it, though they must, however, have seen it at Belle Isle, near which place there is some on a creek that comes in from the west. Some of this Messrs. Harper & McQuestion had brought to the post, and burned there, and they had also sent some to San Francisco to be tested.

I made inquiries of the miners and of Mr. Harper, but found that none of them had any personal knowledge of the location of the seam. It appeared, however, that an old man, who had gone out of the country in the fall, had spent part of the summer prospecting on the creek, and though he found no gold he reported abundance of coal, but gave no further particulars. I had several conversations with some of the miners about this coal, and was fortunate enough to enlist the interest of one of them, Mr. James McAuley, of Victoria, B.C. He promised he would some time during the ensuing summer or fall go up the creek and try to find the seam or seams, and communicate the result to me at the first opportunity. This promise he has kept, and in a letter dated at Port Townsend, W. T., 22nd October, 1888, he says:

"I have measured those coal ledges that you desired I should examine in the British possessions. I brought some samples as far as St. Michel's, but they were mislaid. Two of the ledges measure 5 feet and one 7, and there are others much larger, but I did not have time to examine them."

That is all he says with reference to the coal seams. Although it is not as definite as one would wish, enough is stated to show that there is a large quantity of coal on the creek. He does not say what distance it is up the creek, but the reason for this is plain. When I asked him to make the search he demurred, on the ground that I would publish his reply, and that some one with capital and influence might benefit by his discovery. I told him that if I published his discovery I would give him credit for it, and that he need not be definite in his location, as all that I wished to ascertain was as to the quantity of coal; and on this understanding he consented to make the search.

No other indications of coal were seen in that part of the country. Some of the drift specimens I picked up at the mouth of the creek were sent out for examination; but when they reached Ottawa they were almost reduced to powder, and I have heard nothing of any attempt at assay being made.

#### METALS FOUND ON THE RIVER.

About two miles up Forty Mile River there are large exposures of a white and a grey limestone, containing many thin seams and pockets of galena. One of the seams as seen on the bank is of considerable extent, but as to its length there is no evidence, as it is all covered with drift. Two specimens were sent out and have been assayed by Mr. G. C. Hoffman, of the Geological Survey, with the following result: Specimen marked II, from Forty Mile, about two and a half miles up, contains: gold, a distinct trace; silver,  $38\frac{64}{100}$  ounces to the ton of 2,000 pounds.

Specimen marked III, from exposure on Forty Mile River, about three quarters of a mile up, contains neither gold nor silver.

Were these seams properly surveyed the former might be found of sufficient extent and value to warrant development.

Specimen marked I, from north bank of Pelly-Yukon River opposite the mouth of Tondac River, about five miles above Fort Reliance, contains: gold, a trace; silver,  $3\frac{64}{100}$  ounces to the ton.

Mr. Harper told me he had sent out specimens of the latter ore to San Francisco some years ago, for assay, and that it was pronounced good, but he could not give the value. I did not make an examination of the seam, but it appeared to be extensive. It is of bluish color on the surface, and earthy in appearance.

Specimen marked IIII, from near Station 634 of survey, or near Chan-din-du River, ten or twelve miles below Fort Reliance, contains : gold, a trace ; silver, 0.117 ounces to the ton. Nothing was observed at this point to indicate an extensive quantity of this ore.

It must be borne in mind that these specimens were found by accident. A closer examination of the localities might reveal valuable seams. I have described the specimens found in the order of their value. Though none of them are rich, they show that through an extensive district there are at least indications of wealth. The order in which they were picked up on the river is, I, IIII, and II and III together on Forty Mile River. From I to III is about forty miles in an air line. I was informed that gold and silver-bearing specimens of quartz had been found on Sixty Mile Creek, but I can give no details. I was also informed that a specimen of gold-bearing quartz was picked up some years ago, high up on the side of the bank of Lewes River, opposite the mouth of White River. It was sent to San Francisco and assayed, showing the enormous value of \$20,000 to the ton. This specimen was picked up above high water mark, so that it must have been found at or near its origin, or have been transported there by a glacier, the bank being about 1,200 feet high. No further details regarding this specimen could be learned.

An extensive ledge of gold-bearing quartz is reported on the westerly side of the river, about two miles above Stewart River, but regarding it I could learn nothing definite. It may be a continuation of the same ledge which yielded the foregoing specimen.

While on Lake Bennet building our boat I found an extensive ledge of quartz, and sent specimens of it out by Dr. Dawson. The assay showed that they contained only traces of gold. The ledge is 60 to 80 feet wide, and can be easily traced on the surface for three or four miles. A small creek cuts through it about a mile from the lake, and in this creek are found colors of gold.

While we were working at our boat an expert, employed by some California capitalists, came in with an old man who had made a descent of the river the previous summer. The old man and his party were storm-staid on what he called Lake Bennet, and while so delayed he found an enormous exposure of what he thought was gold-bearing rock. He took out specimens of it, and had them assayed at San Francisco. The result was so promising (\$8.80 of gold, and 92 cents of silver to the ton) that he enlisted the interest of some capitalists who sent him out with the expert to locate and test it thoroughly. The old man described the exposure so minutely and circumstantially that one could scarcely disbelieve his statement. They looked for the ledge for some days but could find nothing resembling what he described. They then called upon me and requested my aid. As I was making all possible haste to keep my appointment with Dr. Dawson at Pelly River I was loath to lose time in aiding the search, but, on account of the importance of the matter, and the old man's earnestness and importunity, and influenced further by a certificate of assay which he had, showing the specimens to have yielded the amounts stated (about equal to the celebrated Treadwell mine at Juneau, Alaska, the rock of which he said his mine much resembled), I at last consented.

I spent a day and night searching with him and his associates, but we failed to find anything like what he described. The old man told so many conflicting stories, and seemed to know so little of the lake, that I became convinced he was astray, and had been hoaxed by some one with a piece of the Treadwell rock. I then left them to shift for themselves. The expert took the same view of the matter, and, as he was in charge of the search, ended it there.

I afterward, on Tagish Lake, saw a place much resembling that described. It is on the south side of the lake and just east of its junction with the Takone arm. I was strongly of opinion that this is the place he referred to, and would have

examined it to verify my impression, but the wind was too strong and the lake too rough to allow of crossing over.

These are all the indications of ore *in situ* which I saw or heard of.

The gold heretofore found and worked in the district has been all placer gold. Search was made for it occasionally by us along the lakes and river as we descended, but, with the exception of the colors mentioned at the quartz ledge on Lake Bennet, none was found until after we had passed Lake Labarge, about six miles below which, at a sharp, short bend in the river, we found in a bar many colors to the pan. It may be said generally that colors are found anywhere on the river between that point and the Boundary, and also on all the tributaries which have been prospected.

It is probable that we have not less than 1,400 miles of stream in our part of the district, upon all of which gold can be found.

About eighteen miles below the Tes-lin-too I saw the first place that had been worked for gold. Here a hut had been erected, and there were indications that a party had wintered there. Between it and Big Salmon River six other locations were met with. One of them, named Cassiar Bar, was worked in the season of 1886 by a party of four, who took out \$6,000 in thirty days. They were working there when I passed in 1887, but stated that all they could get that season was about \$10 per day, and that it was then (3rd August) about worked out. At the time of my visit they were trying the bank, but found the ground frozen at a depth of about three feet, though there was no timber or moss on it. They had recourse to fire to thaw out the ground, but found this slow work.

Two of this party subsequently went down to Forty Mile River, where I met one of them. He was a Swede, and had been gold mining for upwards of twenty-five years in California and British Columbia. He gave me his opinion on the district in these words: "I never saw a country where there was so much gold, and so evenly distributed; no place is very rich, but no place is very poor; every man can make a grub stake (that is enough to feed and clothe him for a year), which is more than I can say of the other places I have been in."

In conversation with Mr. T. Boswell, who, as already stated, had prospected the Tes-lin-too, or Newberry River, in the summer of 1887, I learned that the whole length of that river yielded fine gold, generally at the rate of \$8 to \$10 per day; but as the miners' great desideratum is coarse gold, they do not remain long in a country in which fine gold only is found—generally no longer than is necessary to make a "grub stake," unless the gold is in unusually large quantities. Mr. Boswell therefore went to the lower part of the river, having heard the reports of rich finds.

Stewart River was the first in the district on which mining to any extent was done. In 1886 there were quite a number of miners on it engaged in washing gold, and they all appear to have done fairly well. Their exact number I could not ascertain.

I may say that it is generally very difficult to get any exact, or even approximately exact, statements of facts or values from miners. Many of them are inveterate jokers, and take delight in hoaxing; the higher the official or social position of the person they hoax the better they are pleased. I have several times found that after spending hours getting information from one of them it would be all contradicted by the next one I met. Another cause of difficulty in getting trustworthy information from them is that, in a certain sense, they consider every Government official or agent their enemy, and that he is in the country to spy upon their doings, and find out their earnings, which latter the great majority of them are very averse to have known.

So far as I could see or learn, they do not even disclose to each other their earnings for the season. I met one or two who told me that they had made a certain amount in the season, but on inquiry among the rest these statements were ridiculed and declared untrue. As a rule, they are very generous and honest in their dealings with their fellow men, but a desire for correct geographical or statistical know-

ledge does not actuate very many of them: hence the disagreement and often contradiction in their statements.

I have heard the amount of gold taken from off Stewart River in 1885 and 1886 estimated at various amounts. One estimate was \$300,000, but this must be excessive. The highest amount I heard as representing any one man's earnings was about \$6,000. This may be true, as many agree that \$30 per day, per man, was common on many of the bars on the river, and instances of as high as \$100 per day having been earned were spoken of.

The only mining done on Stewart River was on the bars in the river; the bench and bank bars were all timbered and frozen, so that to work them would entail a resort to hydraulic mining, for which there was no machinery in the country.

During the fall of 1886 three or four miners combined and got the owners of the "New Racket" steamboat to allow the use of her engines to work pumps for sluicing with. The boat was hauled up on a bar, her engines detached from the wheels and made to drive a set of pumps manufactured on the ground, which supplied water for a set of sluicing boxes. With this crude machinery in less than a month the miners cleared \$1,000 each, and paid an equal amount to the owners of the boat as their share.

Alexander McDonald, who has been mentioned before, reported to me that the gold on the upper river was somewhat coarser than that on the lower, but not enough so as to be called "coarse gold." He seemed to be satisfied with the result of his season's prospecting, and intended spending the next season there.

Many of the miners who had spent 1886 on Stewart River and 1887 on Forty Mile River seemed to think the former the better all round mining field, as there were no such failures there as on Forty Mile, and they declared their intention to make their way back to the Stewart for the season of 1888.

Forty Mile River is the only river in the district on which, up to the fall of 1888, coarse gold had been found, and it may be said that much of it can hardly claim that distinctive title. The largest nugget found was worth about \$39. It was lost on the body of a miner who was drowned at the cañon. Several other nuggets of much less value have been found, but the number of pieces which one could call "nugget" are few.

The miners term Forty Mile a "bed-rock" creek—that is, one in the bed of which there is little or no drift, or detrital matter, the bottom of the river being bed rock. In many places this rock has been scraped with knives by the miners, in order to gather the small amount of detritus and its accompanying gold.

Very little of the gold on this creek was found in Canadian territory, the coarsest gold being found well up the river. The river had been prospected in 1887 for upwards of one hundred miles, and gold found all the way up. The great point with a miner is to find where the gold comes from. To do this, he has to reach a point on the river where there is none; then he knows he has passed the source, and will search in side valleys and gulches. The theory seems to be that the gold is stored up somewhere and dribbled out along the river.

Pieces of gold-bearing quartz had frequently been picked up along the river in the shallow drift, but none had been found in place, nor did it appear to me that much search had been made for it. Near the mouth of the river there is an extensive flat of detrital matter through which a couple of small creeks flow. This is all said to be gold-bearing, and, it was thought, would pay well for sluicing. Accordingly, a couple of claimants had staked off claims at the mouth of the creeks, and intended to try sluicing in the season of 1888. I have not heard how the venture succeeded.

During the season of 1887 some miners prospected Pelly River, but I have no information as to their success. Dr. Dawson mentions the fact of their being there, but does not appear to have got any statistics from them.

Big and Little Salmon Rivers have also been prospected, with the usual result that more or less gold has been found everywhere.

I think it may, with confidence, be asserted that rich finds will yet be made of both coarse gold and gold-bearing quartz. It is not likely in the nature of things that such a vast extent of country should have all its fine gold deposited as sediment, brought from a distance, in past ages of the world's development. If this is not the case, the matrix, from which all the gold on these streams has come, must still exist, in part at least, and will no doubt be discovered, and thus enrich this otherwise gloomy and desolate region.

There are many bank and bench bars along the river which would pay well if sluiced, but there is no convenient or economical way of getting water on them, and there is no pumping machinery as yet in the country. One bank bar of large extent, called Rogers' Bar, just below Old Man Rock, attracted attention in the spring of 1888, and some miners were thinking of getting in an engine and pumps to work it. I made an estimate of the size of engine required for their needs, and computed the probable cost of the plant laid down, but it does not appear that they made any further move.

This bar is more than fifty feet above the water. It fronts on the river for more than two miles, and is in places nearly two miles deep. It is believed that in past ages the Old Man and Old Woman rocks were connected, and formed a barrier across the river over which there was a cataract. Below this the fine gold remained, while the sand and gravel were in part carried further down. So impressed were some persons with the prospect of rich finds on this bar that they thought of bringing water across from the high level of Forty Mile River, a distance of over thirty miles; but when I went up Forty Mile River to the Boundary I saw that it could not be done without the aid of force pumps, and I explained this drawback to them. This bar is said to yield four to six cents to the pan, which, with plenty of water for sluicing, would pay well, while its large extent would warrant considerable outlay. Doubtless there are many other bars as rich as this one, though not as large.

Platinum is generally found associated with gold. This is particularly the case on Forty Mile River.

As very few outside of mining communities understand anything of the nomenclature of the craft, or of the methods employed to separate the very small quantities of the precious metal from the baser material with which it is associated, a short description will not be out of place.

When a miner "strikes" a bar he "prospects" it by washing a few panfuls of the gravel or sand of which it is composed. According to the number of "colors" he finds to the pan, that is, the number of specks of gold he can see in his pan, after all the dirt has been washed out, he judges of its richness. Many of them have so much experience that they can tell in a few minutes, very nearly, how much a bar will yield per day to the man.

The process of "placer" mining is about as follows: After clearing all the coarse gravel and stones off a patch of ground, the miner lifts a little of the finer gravel or sand in his pan, which is a broad, shallow dish, made of strong sheet iron; he then puts in water enough to fill the pan, and gives it a few rapid whirls and shakes; this tends to bring the gold to the bottom on account of its greater specific gravity. The dish is then shaken and held in such a way that the gravel and sand are gradually washed out, care being taken as the process nears completion to avoid letting out the finer and heavier parts that have settled to the bottom. Finally all that is left in the pan is whatever gold may have been in the dish and some black sand which almost invariably accompanies it.

This black sand is nothing but pulverised magnetic iron ore. Should the gold thus found be fine, the contents of the pan are thrown into a barrel containing water and a pound or two of mercury. As soon as the gold comes in contact with the mercury it combines with it and forms an amalgam. The process is continued until enough amalgam has been formed to pay for "roasting" or "firing." It is then squeezed through a buckskin bag, all the mercury that comes through the bag being put back into the barrel to serve again, and what remains in the bag is placed in a retort, if the miner has one, or, if not, on a shovel, and heated until nearly all the

mercury is vaporized. The gold then remains in a lump with some mercury still held in combination with it.

This is called the "pan" or "hand" method, and is never, on account of its slowness and laboriousness, continued for any length of time, when it is possible to procure a "rocker," or to make and work sluices.

A "rocker" is simply a box about three feet long and two wide, made in two parts, the top part being shallow, with a heavy sheet iron bottom, which is punched full of quarter-inch holes. The other part of the box is fitted with an inclined shelf about midway in its depth, which is six or eight inches lower at its lower end than at its upper. Over this is placed a piece of heavy woollen blanket. The whole is then mounted on two rockers, much resembling those of an ordinary cradle, and when in use they are placed on two blocks of wood, so that the whole may be readily rocked. After the miner has selected his claim, he looks for the most convenient place to set up his "rocker," which must be near a good supply of water. Then he proceeds to clear away all the stones and coarse gravel, gathering the finer gravel and sand in a heap near the "rocker." The shallow box on top is filled with this, and with one hand the miner rocks it, while with the other he ladles in water. The finer matter with the gold falls through the holes on to the blanket, which checks its progress, and holds the fine particles of gold, while the sand and other matter pass over it to the bottom of the box, which is sloped so that what comes through is washed downwards and finally out of the box. Across the bottom of the box are fixed thin slats, behind which some mercury is placed to catch any particles of gold which may escape the blanket. If the gold is nuggety, the large nuggets are found in the upper box, their weight detaining them until all the lighter stuff has passed through, and the smaller ones are held by a deeper slat at the outward end of the bottom of the box. The piece of blanket is, at intervals, taken out and rinsed into a barrel; if the gold is fine, mercury is placed at the bottom of the barrel, as already mentioned.

Sluicing is always employed when possible. It requires a good supply of water with sufficient head or fall. The process is as follows: Planks are procured and formed into a box of suitable width and depth. Slats are fixed across the bottom of the box at suitable intervals, or shallow holes bored in the bottom in such order that no particle could run along the bottom in a straight line and escape without running over a hole. Several of these boxes are then set up with a considerable slope and are fitted into one another at the end like the joints of a stove-pipe. A stream of water is now directed into the upper end of the highest box. The gravel having been collected, as in the case of the rocker, it is shovelled into the upper box and is washed downwards by the strong current of water. The gold is detained by its weight, and is held by the slats or in the holes mentioned; if it is fine, mercury is placed behind the slats or in these holes to catch it. In this way about three times as much dirt can be washed as by the rocker, and consequently three times as much gold secured in a given time. After the boxes are done with they are burned, and the ashes washed for the gold held in the wood.

Unfortunately, on Lewes and Pelly Rivers there is no way of sluicing without the aid of pumps, there being no streams with fall enough to get the necessary current in the sluice boxes.

There is very little reliable information as to the amount of gold that has been taken out of the district since its discovery and development. The following is the best estimate which I can form on the subject:—

Stewart River was pretty well worked for two seasons, 1885-86, by about forty men, some of whom made at least \$5,000. Assuming that they averaged half that amount, we have \$100,000 as their earnings. Forty Mile River, the only other stream from which any large quantity has been taken, was worked in the summer of 1887 by about three hundred men, many of whom spent only a few weeks on the river, some only a few days. The statement made by those of whom I inquired was that all who worked on the river for any length of time made a "grub stake." Putting this at the lowest value I heard placed on it, \$450, and assuming that two hundred

and fifty men made each this sum, we have \$112,500 as the amount taken out on this stream. I have heard the sum placed as high as \$130,000.

All the gold taken from the other streams by prospectors would not amount to more than a few thousand dollars, so that it is probable the total amount taken out of the whole district is in the vicinity of a quarter of a million dollars, of which about half was taken out in our territory.

I learned that the prevailing high water interfered very much with the success of the miners in the season of 1888, and that many of them left the country in the fall. It is probable, however, that a few will remain prospecting until something rich is found.

As Dr. Dawson has reported on the geology of the region along the Lewes, and Mr. McConnell has made an examination of the river from Porcupine River, it is needless to do more than refer to their reports. I may briefly state, however, that the whole course of the river in Canada is through a mountainous country, the rocks of which, as far as seen, are principally granitic, schists, shales, and some limestone, the latter at Lake Labarge. There is also some basalt at the cañon and at the confluence with Pelly River.

Just below Coal Creek a range of high mountains comes in from the south-east, and continues down the river past the Boundary. These mountains are composed principally of limestone, with occasional exposure of shale and sandstone.

While going down the river with the survey I located some prominent peaks by triangulation, and determined their height. Unfortunately, I could not, owing to cloudy weather, get as many as I wished. Those located are shown on my map of the survey. I have named a few of them, as they have not, to my knowledge, been previously named.

One of them, seen from the south end of Lake Labarge, on the east side, I have named Mount Dawson, after Dr. Dawson of the Geological Survey. Its altitude above the lake was taken from two points on the east side, from which its distance was, respectively, 724.5 and 773 chains. The height as deduced from the observed angles of elevation of the top from each station was, respectively, 3,238 and 3,263 feet. Part of this difference is no doubt due to want of precision in the instrument used, and part to the fact that the same point may not have been sighted on from both stations. The latter height is probably the nearer to the truth. The altitude of the lake I have put at 1,959 feet, which would make the height of the mountain 5,222 feet above the sea.

Another peak near the Boundary I have named Mount Morison, after a member of my party; and another Mount Gladman, after another member. These two peaks are the highest seen from the river in the vicinity of the Boundary. Mount Morison was ascended and its height determined by aneroid barometer, the mean of the readings at starting from and returning to the river being compared with the reading at the top. The difference between the two readings at the river was about fifty feet. The height thus determined was 2,390 feet, which gives the altitude above sea 3,180 feet. Mount Gladman was apparently a little higher.

The only people doing business in the country outside of gold mining were Messrs. Harper, McQuestion & Co. They have been trading at several points on the river pretty constantly since 1873. They occupied Fort Reliance for some years, and in 1886 they established a post at Stewart River to meet the demands of the miners who were working there. They did not anticipate the rush to the country that took place in that year, and their supplies ran short, so that all were for some months on the verge of starvation. Unfortunately, too, scurvy broke out in the camp, and there was much suffering.

In 1887 they established a post at Forty Mile River, whither nearly all the miners had gone, coarse gold having been discovered there during the previous fall. During the winter of 1887-88 they did business at both these posts, Messrs. Harper and McQuestion being in charge at Forty Mile, and Mr. Mayhew at Stewart River. The latter post was kept open principally for the Indian trade, though had there been no miners there it is probable they would have abandoned it. I could not



learn definitely the amount of their sales to the miners in 1887, as it is a delicate question to ask a person who is selling foreign goods in Canadian territory to reveal to a Canadian employed by the Government the amount of his trade. Very likely, had I asked the question, I would have received a short answer, though in every other way I am under great obligation to Messrs. Harper & McQuestion for acts of kindness and attention, both sought and unsought.

A person who had a good idea of the amount of their business during the season estimated their sales at \$60,000, and from facts which came under my own observation I consider this not far from the truth.

Until the miners visited the country the trade done by this firm was confined to barter with the natives for furs. I understand that they do a sort of commission business for the Alaska Commercial and Fur Trading Company—that is, the company supply goods at a certain advance on San Francisco prices, and deliver them at the trading post at a certain rate per ton. In payment they take whatever pelts have been collected at a certain prearranged price, varying according to the state of the fur market. I understand, however, their freight charges remain constant, and are \$30 per ton for goods paid for in furs, and \$125 per ton for goods paid for in cash, the latter being the goods imported for the use of the miners.

Their prices for goods in 1887 were not exorbitant, although there must have been a fair profit. They were: flour, \$17.50, per hundred pounds; bacon \$40 per hundred; beans, \$18 per bushel; sugar, \$30 per hundred; and tea, \$1.25 per pound. Both of these gentlemen came into the country in the summer of 1872, Mr. Harper crossing the mountains from the Cariboo gold fields in British Columbia, and descending Liard River to the Mackenzie. He went down the latter river and up the Peel, whence he crossed to the waters of the Porcupine, which he descended to the Yukon; he then went up the latter to White River, where he wintered.

Mr. McQuestion came in at the same time by way of Peace River, trading for a short time around Lake Athabasca before he descended the Mackenzie.

The principal furs procured in the district are the silver-grey and black fox, the number of which bears a greater ratio to the number of red foxes than in any other part of the country. The red fox is very common, and a species called the blue is abundant near the coast. Marten, or sable, are also numerous, as are lynx; but otter are scarce, and beaver almost unknown.

It is probable that the value of the grey and black fox skins taken out of the country more than equals in value all the other furs. I could get no statistics concerning this trade for obvious reasons.

Game is not now as abundant as before mining began, and it is difficult, in fact impossible, to get any close to the river. The Indians have to ascend the tributary streams ten to twenty miles to get anything worth going after. Here on the uplands vast herds of cariboo still wander, and when the Indians encounter a herd they allow very few to escape, even though they do not require the meat. When they have plenty they are not at all provident, and consequently are often in want when game is scarce. They often kill animals which they know are so poor as to be useless for food, just for the love of slaughter.

An Indian who was with me one day saw two cariboo passing and wanted me to shoot them. I explained to him that we had plenty, and that I would not destroy them uselessly, but this did not accord with his ideas. He felt displeased because I did not kill them myself or lend him my rifle for the purpose, and remarked in as good English as he could command: "I like to kill whenever I see it."

Some years ago moose were very numerous along the river, but now they are very seldom seen, except at some distance back from it. Early in the winter of 1887-88 the Indians remained around the miners' camps, and subsisted by begging until all further charity was refused. Even this for some time did not stir them, and it was not until near Christmas that sheer hunger drove them off to hunt. One party went up the Tat-on-duc some fifteen or twenty miles, and in a short time was revelling in game, especially cariboo. The other party did not succeed for some time in getting anything, although a large district was searched over, but

finally went up Coal Creek about twenty miles, and there killed eighteen moose in one day. They brought in two thousand pounds of the meat to the post, and sold it for ten cents per pound to the miners, with whom it was in great demand on account of the prevalence of scurvy in the camp.

A boom in mining would soon exterminate the game in the district along the river.

There are two species of cariboo in the country; one, the ordinary kind, found in most parts of the North West, and said to much resemble the reindeer; the other, called the "wood cariboo," a much larger and more beautiful animal. Except that the antlers are much smaller, it appears to me to resemble the elk or wapiti.

The ordinary cariboo runs in herds, often numbering hundreds. It is easily approached, and, when fired at, jumps around a while as though undecided what to do; it then runs a short distance, but just as likely towards the hunter as from him, stops again, and so on for a number of times. At last, after many of them have been killed, the remainder start on a continuous run, and probably do not stop until they have covered twenty or thirty miles. When the Indians find a herd they surround it, gradually contracting the circle thus formed, when the animals, being too timid to escape by a sudden rush, are slaughtered wholesale.

There are four species of bears found in the district—the grizzly, brown, black, and a small kind, locally known as the "silver-tip," the latter being grey in color, with a white throat and beard, whence its name. It is said to be fierce, and not to wait to be attacked, but to attack on sight. I had not the pleasure of seeing any, but heard many "yarns" about them, some of which, I think, were "hunters' tales." It appears, however, that miners and Indians, unless travelling in numbers, or specially well armed, give them as wide a berth as they conveniently can.

Wolves are not plentiful. A few of the common grey species only are killed, the black being very scarce.

The arctic rabbit or hare is sometimes found, but they are not numerous. There is a curious fact in connection with the ordinary hare or rabbit which I have observed, but of which I have never yet seen any satisfactory explanation. Their numbers vary from a very few to myriads, in periods of seven years. For about three years one may travel for days without seeing more than a sign of them; then for two years they are numerous, and increase for two years more, until finally the country is alive with them, when they begin to disappear, and in a few months there are none to be seen. If it is an epidemic that carries them off, it is strange that their carcasses are never observed in any number.

It appears the martens are also subject to a periodical increase and decrease, and in this case a satisfactory explanation of the cause is also wanting.

The mountain sheep (Big-horn), and mountain goats exist everywhere in the territory; but, as they generally frequent the sides of the highest mountains, they are seldom seen from the river.

Birds are scarce. A few ravens were seen along the river, and three or four remained in the vicinity of the Boundary all winter. They were generally more active and noisy on stormy days than at other times, and their hoarse croak had a dismal sound amid the roar of the elements.

A few magpies were seen near Nordenskiöld River, and a few white-headed eagles were also noticed.

During the winter, near the Boundary, numbers of small birds, somewhat resembling the "chick-adee," were seen, but they were much larger and had not the same note. Of owls, not a specimen was met with anywhere. Partridges were very scarce, only half a dozen or so of the ordinary kind being noticed; but at the head of the Tat-on-duc and Porcupine ptarmigan were abundant. Wild geese and ducks are plentiful in their season, and of ducks there are many more species than I have seen in any other part of the territory. Most of these were observed on the head of the Porcupine; but, having no means of preserving the skins, I had to come away without specimens. A very beautiful species of loon or diver was met with on the Porcupine. It is smaller than the great northern diver, but marked much the same

on the body, the difference being principally in the head and neck—the bill is sharper and finer and the head smaller; but its chief distinguishing feature is the neck, which is covered with long, beautiful dun-colored down for more than half its length from the head downwards. I tried to kill one so as to get the skin as a specimen, but after I had fired three times at close range with heavy shot it seemed as lively as if I had not fired at all. I then killed it with my rifle, but the bullet so tore and mangled the skin that it was useless.

With the exception of a small species, locally called the arctic trout, fish are not numerous in the district. Schwatka calls this trout the grayling, but from the descriptions and drawings of that fish which I have seen this is a different fish. It seldom exceeds ten inches in length, and has fins very large for its size, which give it, when in motion, the appearance of having wings. Its dorsal fin is very large, being fully half the length of the body, and very high. The fish is of a brownish grey color on the back and sides, and lighter on the belly. It is found in large numbers in the upper part of the river, especially where the current is swift, and takes any kind of bait greedily. The flesh is somewhat soft and not very palatable. Lake trout are caught in the lakes, but as far as I saw, are not numerous nor of large size. They take a troll bait readily, and a few were caught in that way coming down the lakes, but the largest did not weigh more than six or seven pounds. Salmon come up, I was assured by several Indians, natives of the district, as far as Lake Labarge, and are never found above it, but Dr. Dawson reports their dead bodies along the river for some miles above the cañon. I mention this to show the unreliability of information received from the natives, who frequently neither understand nor are understood.

On the way down, salmon were first seen twenty or twenty-five miles above Five Finger Rapids. One can easily trace their passage through the water by the slight ripple they make on the surface and, with care, they can be taken by gently placing a scoop net in their way and lifting them out when they enter it. After coming up the river two thousand miles they are poor, and would not realise much in the market. At the Boundary, in the early winter months, the Indians caught some that were frozen in on small streams, and fed them to their dogs. Some of these I saw; they were poor and spent.

I had very little opportunity to learn anything of the language, manners, customs, or religion of the natives on my way through their country, my time with them being so short, and none of the whites whom I met in the district seemed to possess any information upon which I could draw. I got a few items, but as they may or may not be facts, I shall not report them. The statements of every one I met, however, pretty well establish that by one of their laws inheritance is through the mother.

As far as possible, I have obtained the numbers of the various bands along the river. Beginning at the coast the number of the Chilkoots, as stated by Commander Newell, was 138 souls, of whom about 40 were full grown men.

As far as I could gather from G. Carmack, who lives with the Tagish Indians, and has one of them for a wife, there are of them about 112 souls all told, but many of these are almost permanently located with the Chilkoots, some of the latter having Tagish wives.

The Tagish complained bitterly to me, as well as they could, having only a few words of Chinook and English with which to convey their meaning, of the tyranny and robbery of the Chilkoots. Klohk-shun, the Chief of the Tagish, said "Chilkoot all same dog," imitating the snapping action of a dog as he said so. Those who have had any experience with Indian dogs can appreciate the comparison. These people are scattered along the river from the Tes-lin-too up. The only market they have at present for the few furs they collect is on the coast at the head of the Inlet, and they say they are robbed of half their goods on the way there by the Chilkoots. On my way to the summit I met three or four Tagish coming in with two packs of furs, to trade. Meeting me afterwards at the summit, one of them informed me that they were met a short distance outside the village, and one of the packs was taken from

them by force, and the other paid for at forced prices. Much of this talk I have no doubt was intended to create sympathy, and induce charity, as they, like many other Indians, are inveterate beggars; but I have no doubt that they are little more than slaves to the Chilkoots, and are both robbed and swindled most barefacedly.

Below Five Finger Rapids I saw two families of Indians, consisting of ten or twelve souls, very poor looking, and the most stupid I have ever met. Wanting to buy some tea and other stuff from me, they tendered in payment the tin stamps that are put by some manufacturers on plugs of tobacco. These, they signified to us, had been given to them in exchange for furs by the coast Indians. It is possible that they had got them from the Indians on the tobacco, and were trying to swindle me, but I am inclined to think not.

At Stewart River there were two Indian men, two women, and two children. One of the men had picked up a few words of English from the miners and traders the winter before, and, as far as he could be, was very communicative. He informed me that there were about thirty families of Indians up the river twenty or thirty miles, "one day," as he expressed it. They were living on salmon, and had no trouble in catching all they required.

Between Stewart River and Forty Mile River three families were met with, but, as they knew neither English nor Chinook, no information as to their headquarters could be got from them. It is probable they were a part of the band located at Fort Reliance. Mr. Harper informed me that the band at the latter place numbered about twelve families, or, say, 70 souls. At Belle Isle, fifteen miles below the Boundary, David's band is located. It numbers 65 to 70 souls. About one hundred miles below the Boundary, Charley's band has its headquarters. It numbers some twelve families, in all about 66 souls. I came more in contact with the last two bands than with any of the others, as David's band was only twelve miles from my winter quarters for some months, and many of them were frequently in the house with me for a night or two on their way to and from Forty Mile River. A missionary sent over by the Right Rev. Bishop Bompas, who is in charge of the diocese of Mackenzie River for the Church Missionary Society of England, was stationed with David's band all winter.

Some years ago, when Archdeacon McDonald, now in charge of the mission work at Fort McPherson, on Peel River, was stationed at Fort Yukon, and afterwards at Rampart House, Charley's band used to resort to those posts for their trade, and that gentleman taught them to read, and instructed them in the principles of the Christian religion. It is pleasant to be able to testify that they have profited by this instruction, and still retain a loving memory of those times. They hold every Sunday a service among themselves, reading from their books the prayers and lessons for the day, and singing in their own language to some old tune a simple hymn. They never go on a journey of any length without these books, and always read a portion before they go to sleep. I do not pretend that these men are faultless, or that they do not need watching, but I do believe that most of them are sincere in their professions and strive to do what they have been taught is right. They are greedy and selfish in their transactions with whites, but I think much of that is because they have probably never had the sin of undue greed put forcibly before them by their pastor. Their chief, Charley, is a fine specimen of a level-headed, thoughtful Indian, who, up to the time of my departure, at least, did not fail to point out to his people the baneful effect of immoral intercourse with the whites. The majority of the miners, though honorable and generous to a fault in their dealings with the Indians, as far as ordinary dealing goes, have, I am sorry to say, little or no conscientious scruples concerning the moral relations of the sexes, and would not hesitate to take advantage of any weakness in that direction which they might find.

David's and Charley's bands manifested to me a much stronger sympathy for Canada than for the United States. Some of this feeling might be due to policy, for aught I know, but hitherto most of their dealings and all their education have been Canadian. The total number on the river is 482, of whom 136 are below the

Boundary, leaving 346 domiciled in Canada. It does not appear that any live permanently on the upper Pelly or Stewart.

I shall now give a table of distances from Haines Mission on the coast at the head of Chilkoot Inlet to the Boundary. Some distances were given in my interim report published in the Departmental report of 1887, but as they were uncorrected for errors in the survey, I now submit a revised table. The error of the survey is found from the difference of latitude, as deduced from the survey, by measuring on the plan the northing made in each day's work, and applying this northing converted into arc to the latitude of the previous day's last station deduced in the same way, and so on from the starting point, Pyramid Island, to the observed latitudes at Fort Selkirk, and at the Boundary—the former taken by Dr. Dawson, the latter by myself. The error is cumulative, and distributed pretty uniformly, taking both latitude and longitude into account.

## DISTANCES FROM HAINES MISSION

	Miles.
Haines Mission to entrance of Taiya Inlet.....	4·79
Head of Taiya Inlet.....	20·12
Head of canoe navigation, Taiya River.....	26·02
Forks of Taiya River.....	28·50
Summit of Taiya Pass .....	34·88
Landing at Lake Lyndeman.....	43·18
Foot of Lake Lyndeman.....	47·61
Head of Lake Bennet.....	48·21
Boundary line B. C. and N. W. T. (Lat. 60°).....	58·21
Foot of Lake Bennet.....	73·97
Foot of Cariboo Crossing (Lake Nares of Schwatka).....	76·56
Foot of Tagish Lake.....	93·37
Head of Marsh Lake.....	98·27
Foot of Marsh Lake.....	117·33
Head of Cañon .....	143·06
Foot of Cañon.....	143·68
Head of White Horse Rapids .....	145·07
Foot of White Horse Rapids.....	145·45
Tahk-heena River.....	160·04
Head of Lake Labarge.....	173·19
Foot of Lake Labarge.....	204·34
Tes-lin-too River (Newberry of Schwatka).....	236·00
Big Salmon River of miners (D'Abbadie of Schwatka).....	269·45
Little Salmon River of miners (Daly of Schwatka).....	305·66
Five Finger Rapids (Rink Rapids of Schwatka).....	364·95
Pelly River.....	423·41
White River.....	519·23
Stewart River.....	529·03
Fort Reliance.....	602·32
Forty-Mile River.....	647·20
Boundary Line.....	687·55

In the appendix will be found my meteorological observations, which I began to keep regularly on the 1st of August, 1887, and carried on till the 1st of November, 1888, but I will here give some extracts from them. First snow of the season on the mountain tops, 10th September. First snow in the valley, 23rd September. Temperature of river water on 1st October, 38·0°. First ice drifting in river, 21st October. Ice set in river, 15th November. Thickness of ice, 1st December, 14½ inches; 3rd January, 40½ inches; 3rd February, 48 inches; 2nd March, 48½ inches.

A small collection of plants was made along the river, and those obtained above the Pelly were taken home by Dr. Dawson. They have been classified by Prof. J. Macoun, F.L.S. A list of them, as well as of those collected by himself, Dr. Dawson

gives in an appendix to his report. I take the liberty of extracting from the list, and inserting here those collected by me. Others, not included in this list, from the lower river and the Mackenzie were much damaged by rain. The scarcity of time at my disposal must be accepted as an excuse for my not attending to their preservation.

(1.) *Anemone multifida*, D.C. (cut-leaved Anemone)—Lake Bennet. Common throughout Canada.

(2.) *Caltha palustris*, Linn. (Marsh Marigold)—Chilcoot Inlet. Marshes throughout Canada.

(3.) *Silene acaulis*, Linn. (Moss Campion)—Lake Lyndeman. On mountains and Arctic regions.

(4.) *Oxytropis campestris*, D.C. (Field Oxytropis)—Lewes River, river gravels, and rocky banks northward.

(5.) *Hedysarum boreale*, Nutt. (Northern Hedysarum)—Tagish Lake. Common on the prairies and in Quebec.

(6.) *Dryas Drummondii*, Hook. (Drummond's Dryas)—Lewes River. River gravels in the Rocky Mountains. Lake Superior and Quebec.

(7.) *Potentilla fruticosa*, Linn. (Shrubby Cinquefoil)—Lake Bennet. Common throughout Canada.

(8.) *Saxifraga tricuspidata*, Retz. (Three-toothed Saxifrage)—Lake Bennet. Cold rocky banks, the whole forest region.

(9.) *Ribes rubrum*, Linn. (Wild Red Currant)—Chilcoot Inlet. Common in swamps throughout Ontario.

(10.) *Sedum stenopetalum*, Pursh. (Mountain Stone-crop)—Tagish Lake. Rocky and other mountains; common.

(11.) *Epilobium angustifolium*, Linn. (Fire-weed)—Lake Bennet. Common throughout Canada.

(12.) *Epilobium latifolium*, Linn. (Broad-leaved willow herb)—Lake Bennet. River gravels in the mountains northward and eastward to Labrador.

(13.) *Selinum Dawsoni*, C. & R. (Dawsoni Selinum)—Lake Labarge. New to science. Only found by Dawson and Ogilvie. Described in Coulter's Botanical Gazette, Vol. XIII, p. 144, June, 1888.

(14.) *Archangelica Gmelini*, D. C. (Sea-coast Archangelica)—Chilcoot Inlet. Common on both Pacific and Atlantic coasts.

(15.) *Galium boreale*, Linn. (Northern Bed-straw)—Lake Labarge. Common throughout Canada.

(16.) *Solidago multiradiata*, Ait. (Many-rayed Solidago)—Tagish Lake. High mountains, and northeastward to Labrador.

(17.) *Solidago Virga-aurea*, Linn., Var. *Alpina*, Bigel. (Alpine Solidago)—Lewes River. Crevices of rocks, Lake Superior and northeastward.

(18.) *Aster Sibiricus*, Linn. (Siberian Stav-wert)—Lewes River. River gravels, in mountains.

(19.) *Achillaea Millefolium*, Linn. (Yarrow)—Tagish Lake. Common throughout Canada.

(20.) *Arnica latifolia*, Bong. (Broad-leaved Arnica)—Lake Bennet. Common in mountains.

(21.) *Loiseleuria procumbens*, Desv. (Alpine Azalea)—Chilcoot Pass. Northern mountains and whole Arctic coast.

(22.) *Gentiana Amarella*, Var. *Acuta*, Hook. (Annual Gentian)—Lewes River. Common in woods and prairies throughout Canada.

(23.) *Mertensia paniculata*, Don. (Paneled Lungwort)—Lake Bennet. Common in cool woods eastward to Lake Superior.

(24.) *Pentstemon confertus*, Var. *caeruleo-purpureus*, Gray (Prairie Pentstemon)—Tagish Lake. Common on the prairie and northward.

(25.) *Chenopodium capitatum*, Wat. (Strawberry Blite)—Lake Labarge. Common throughout Canada.

(28.) *Alnus rubra*, Bong. (Red Alder)—Chilkoot Inlet. A fine tree on the Pacific coast.

(27.) *Cypripedium montanum*, Dougl. (Mountain Cypripedium)—Lewes River. South in the mountains through British Columbia.

(28.) *Allium Schoenoprasum*, Linn. (Wild Chives)—Lake Labarge. River and lake shores throughout Canada.

(29.) *Zygadenus elegans*, Pursh. (Beautiful Zygadene)—Cañon of Lewes River. Common on the prairies.

A small zoological collection was also made and sent out by Dr. Dawson. Those specimens collected on the lower river after he left, and on the Mackenzie, I brought out myself. They were all handed to Mr. James Fletcher, F.R.S.C., F.L.S. One of the specimens was given me by Mr. James McDougall, Chief Factor in the Hudson's Bay Company's service, who obtained it near the summit of the Taiya Pass. These specimens are classified as follows by Mr. Fletcher:—

(1.) *Papilio Machaon*, L., var. *Alaska*, Scud.—Three miles below summit of Chilkoot (Taiya) Pass (from Mr. McDougall), 15th July, 1886.

(2.) *Colias Christina*, Edw.—Site of Fort Selkirk, 17th August, 1887.

Those collected on the Mackenzie were:—

(1.) *Papilio Machaon*, L., var. *Alaska*, Scud.—Fort McPherson (Latitude 67° 26'), 21st June, 1888.

(2.) *Pieris Napi*, Esper.; Arctic from *Byroniae*. Oschs., var. *Huld.*—Fort McPherson (Latitude 67° 26'), 21st June, 1888.

(3.) *Anthocaris Ausonides*, Bd.—Mackenzie River, 8th July, 1888.

(4.) *Colias Christina*. Edw.—Fort Good Hope (Latitude 66° 16'), 11th August, 1888.

(5.) *Vanessa Antiopa*. Edw.—Ninety miles above Fort Good Hope (Latitude 65° 20'), 19th July; Fort Smith (Latitude 60°).

This collection is small, I confess, but it must be remembered that a person cannot very well do two things at once, and at the times when insects generally are most about—clear, pleasant weather—a surveyor is busiest, and generally all the members of his party are busy too. Often have I seen butterflies and moths that I would have liked to catch, but have been occupied at the time with something which I could not leave, and so have lost the opportunity. Many specimens also of plants that I would have been pleased to collect, had to be passed, because at the time the canoes were in such a position that we could not stop without much trouble. Very few small animals of any description were seen. Of those which were strange to me a specimen of what I think is a shrew-mouse was brought out, and handed over to Mr. Fletcher for classification. I have not heard yet what it is.

### SECTION 3.

#### EXPLORATORY SURVEY FROM THE PELLY-YUKON TO MACKENZIE RIVER BY WAY OF TAT-ON-DUC, PORCUPINE, BELL, TROUT AND PEEL RIVERS.

Having got nearly all my supplies down to Belle Isle, on the 3rd of March I left my winter quarters and started therefor with four of the party. Unfortunately, two of my men were unable to accompany me, having fallen ill. From Belle Isle we proceeded to take the supplies already there down the river to the mouth of the Tat-on-duc, using a miner's camp about five miles above it as a halting place on the way. All winter I had availed myself of every opportunity to induce the Indians to meet me at Belle Isle about the 1st of March, and assist me over to the head of the Porcupine, or farther if possible, but I could get no definite promise from them, and when the appointed time came I did not even know where they were, but supposed them to be up the Tat-on-duc. Meanwhile, I kept on hauling the stuff ahead as fast as circumstances would permit. On the 13th I had all the stuff down to the miner's

camp mentioned, a distance of twenty-two miles by the river, but a winter track, which I followed, by cutting off a large bend, shortened this to about fourteen. This track, however, was so rough and wooded that it is doubtful if it much lessened the labor.

The evening of the 13th an Indian came down to the miner's camp to feel around and see what could be made out of my necessities. As I was anxious to cross to the Mackenzie by this route I made him and his associates an offer of \$2.50 a day for each team of dogs with driver, if they would come and transport me, at least to the head of Porcupine, or, as they called it, Salmon River. This amount, though it would be considered low in the more southerly part of our territory, was about twice the amount heretofore paid in that section. He left for home to carry my offer to his companions, promising on his own behalf his support of it. Meanwhile, as there was no certainty that anything would come of this offer, I kept on with the party hauling down to the mouth of the Tat-on-duc, and had got nearly half the stuff down there when, on the morning of the 16th, I met nine men and thirty-six dogs on their way to take me, as I understood, to the head of the Porcupine. The rest of that day was spent in cooking for the trip, and fixing things so as to take as little space as possible as the loads would be somewhat bulky. On the morning of the 17th I bade good-bye to the miners with regret, and yet with a thrill of satisfaction that I was now fairly started on the home stretch of my long journey, though over 2,500 miles yet lay between me and the nearest railway, nearly all of which had to be got over by foot or paddle.

Going up the Tat-on-duc I made a compass and track survey as I went along, taking the azimuth of points in the valley, and estimating distances by time and rate of travel. As no member of the Geological Survey staff was likely to pass here for generations, I paid more attention to the geology as I went along than I had heretofore done, and collected specimens of the different rocks I saw. These have been handed over to Dr. Dawson.

As there are no features of special interest on Tat-on-duc and Porcupine Rivers a detailed description of them will not be necessary. When we were at the mouth of the Tat-on-duc the Indians, as I understood them, spoke of some place on the river where warm water comes out of the ground, and keeps the ice over it very thin. I tried to get them to point it out to me, but they either could not or would not understand me, for I saw nothing corresponding to their description anywhere along the river. For three or four miles from the mouth the valley of this stream is about half a mile wide at the bottom, with some fair timber in places. Then it narrows, and up as far as the forks it partakes more of the nature of a cañon than of a valley. While the valley continues wide the ascent in the river is not very steep, yet steep enough to prevent anything larger than a very small boat ever being taken up it. When the valley narrows the ascent becomes much steeper and gives one the impression of going up a hill. The water evidently freezes to the bottom in many places, as it is continually bursting up at the sides and overflowing the surface of the ice, where it is soon frozen. Hence in the spring the ice in places must be of enormous thickness. About eleven miles up, a creek flows in from the north. If I understood the Indians aright, it comes out of the side of the mountain some distance up; they described the water as being warm where it emerges, this being, perhaps, the place to which they had referred as mentioned above. Whether this is true or not, the water where it enters the river is not frozen, nor is it frozen for some distance below this point. This is the point from which the river takes its name of Tat-on-duc, or in English, Broken Stone River, for here it appears the river is always open, and there are many large masses of rock in the channel. Except on the theory of warm water coming into the river, I cannot account for its being open here at the time I saw it, when almost everywhere else it was frozen, even in places where the current is much swifter and rougher than here, where it is quite tranquil.

The river up to this point averages about two hundred feet in width, but just above the open water described it turns suddenly to the south from an easterly



direction, and enters a cañon. This is one of the grandest sights I have ever seen; the cañon is forty or fifty feet wide, and the sides rise perpendicularly, on one side to a height of fully seven hundred feet, and on the other probably five hundred, and then slope off to the sides of high mountains. It is nearly a half mile long, and there is a slight bend near the middle, but not enough to prevent one seeing through it from end to end.

After passing through the cañon the river turns sharply to the east again, and continues in this direction till it reaches the forks, about fourteen miles above the mouth. One of the branches comes from the south-east and the other, the one I went up, from the north-east. The Indians often go up the south branch to hunt. As I understood them, it rises in a high plateau distant two or three days' travel, probably forty miles, and in the same plateau a stream rises which flows to the north, probably into one of the head streams of the Peel. At the forks the precipitous sides of the valley change into easily sloping wooded uplands, with here and there a high peak in the distance. The timber is all small, there being none larger than eight or ten inches in diameter.

The Boundary will cross the river a short distance below the forks. I pointed out to the Indians its approximate position, and made them understand its significance, as I also did on the main river.

The Indians' camp was about nineteen miles up the river, and, as I arrived there on Saturday, they wished to remain until Monday. I agreed, and had the pleasure on Sunday of witnessing their religious service, of which I have already spoken. These Indians build their tents differently from any I have seen elsewhere in the Territories. The tent is made of deer skins dressed with the hair on, which are sewed into the proper shape, elliptical on the ground plan, and dome shaped in vertical section. Willows are fixed in the ground, then bent into the proper curves, and fastened together at the top; the deer skin cover is then placed over this framework, and the tent is banked around with snow. There is quite a large opening left in the top for an escape for the smoke; but, notwithstanding this, a small fire keeps it warm. On the ground it is about eighteen or twenty feet long and ten to fourteen wide. The thick coat of hair on the inside hinders the heat reaching the skin so that snow lies on the outside of the tent quite a while before it melts. Generally two or more families dwell in one tent.

The winter clothing of these people is made of deer skins dressed with the hair on, and worn with the hair inside. The pants and boots are made in one piece, and the coat is made in the manner of a shirt. In putting it on it is simply pulled over the head, and the arms passed down the sleeves, so that, when it is on, there is no opening for any wind to pass through, and no part of the body, except the face, is exposed to the atmosphere. In the case of children, sometimes the end of the sleeve is sewed up, so that the hand cannot get out, but this is done only when the child is going out. These people had killed a great many cariboo and moose in the vicinity, but they would not tell me how many.

About twenty-five miles up the river we reach a small cañon; the water way is rough, but the sides, though perpendicular, are not high. About four miles above this the Indians report a small lake in a deep valley, which never freezes. They appear to have a superstitious dread of it, saying something about a strong wind always blowing into it, which makes approach dangerous. Around it, they say, many sheep and goats are to be seen, which I suppose can be accounted for by the fact that no one ever hunts there. They pointed out to me the position of the lake as well as they could from the river. It lies in a deep valley at the foot of a very high mountain, which they call Sheep Mountain, the height of which above the river I would estimate at least three thousand five hundred to four thousand feet. From the barometer readings along here, the river is not less than one thousand four hundred feet above the sea, so that this peak is upwards of five thousand feet above sea level. About three miles above this peak another small but very rough cañon is passed on the river. Three and a half miles above this there is, on the east bank of the river, a low swampy place, from which

there is an effusion of sulphuretted hydrogen gas. The odor is quite strong for some distance along the river. An Indian gave me to understand that there was much of the same gas escaping at the lake already referred to. If I understood him aright the danger of the lake is due to violent rushes of the gas, which makes men sick, so that they fall down and roll into the lake.

A short distance further there enters from the east side a creek up which we had to go to avoid an impassable cañon on the main river. According to the Indians this cañon contains a high waterfall, which it is impossible to pass, and they describe it as the largest and worst cañon on the river. We have to ascend this creek about four and a half miles, when we turn off it to the left, going up a narrow valley which lies between two high bald mountains, on the bare sides of which we saw many wild sheep feeding. The mountain on the west side of the pass I have named Mt. Deville; that on the east side, Mt. King. The bed of the creek by which we leave the river is wide and shallow, and the water runs on the top of the ice, thus continually adding to its thickness, till in many places it has the appearance of a small glacier. I am quite sure there are places on this creek where the ice remains all summer. The valley extends eastward several miles, and is surrounded by high mountains. On the south side a curiously formed range skirts the edge of the valley for many miles. It rises sharply from the bottom upwards of two thousand feet to the west, and ends in a table land which seems level southward as far as the eye can reach. On the eastern edge of this table land there stands an immense wall, rising from seven hundred to one thousand feet above it. This wall has the appearance, from where I saw it, of rising perpendicularly on both sides, and its thickness I would judge to be about one third of its height. It is weathered into queer shapes, resembling in places the views of old ruins one often sees. In one or two places there are large holes in it, which are covered with several hundred feet of rock. One of the holes is so large that through it can be seen the plateau beyond. In the bottom of the valley there are many mounds of gravel which seem to have been placed there by glacial action. There probably was a small glacier in this valley at one time, but it does not appear to have extended any farther down than the river.

At the summit of the pass through the range between this valley and the valley of the main river a magnificent view of the valley is obtained. From this point up the valley is wide, with low sloping sides which end some twelve or fourteen miles up in a large plateau, and beyond this, some twenty miles, the peaks of the Na-hone range break the view to the north. This is one of the grandest views I have ever seen, and the profound stillness and vast solitude impress one as perhaps few other scenes in the world would. The descent from the summit to the river is two and three quarter miles, in which the fall is about five hundred feet, the barometer at the summit standing at 26.80, and at the river at 27.32 inches. This would place the summit of the pass roughly about three thousand feet above the sea. Around it are peaks which rise at least two thousand feet above it. Some six or eight miles down the river the Indians pointed out the cañon. The valley appears to end there, the mountains are so high and bold.

From the pass upwards the river is shallow, and there are places which look like small lakes, where the water overflows and forms large fields of ice, as in other places described above, but on a larger scale. Eight miles above the pass the river turns sharp to the north, and apparently comes from between two high, sharp peaks, the northerly one of which I have named Mt. Klotz. As far as can be seen, it is a field of ice fully one hundred yards wide, and of great thickness. In some places there are hillocks on the ice formed by the water bursting through, and freezing as it overflows. I have no doubt that much of the ice remains through the summer, and may not be wholly melted before the new ice begins to form in the fall, if indeed there is not ice forming during most of the summer months.

Leaving the river, and continuing about a mile up the valley of a small stream coming from the east, we reach the top of a low ridge which forms the water-shed between the waters of the Tat-on-duc and those of a stream which the Indians assured me flows into the Peel. I had much difficulty in understanding this, as I

could hardly believe that the water-shed was so near the Lewes, or Yukon; and it was not until they had drawn many maps of the district in the snow, and after much argument with them, that I gave credit to their statements. I then proposed to go down this stream to the Peel, and to reach the Mackenzie in that way, but at this they were horrified, assuring me as well as they could by word and sign that we would all be killed if we attempted it, as there were terrible cañons on it, which would destroy us and every thing we had; in fact, we would never be heard of again, and they might be blamed for our disappearance. Their statements, in connection with the fact that the barometer stood about 26.50 inches, showing an altitude of over three thousand feet which would have to be descended between there and the Peel, a distance of about one hundred and eighty miles, and probably most of it in the lower part, caused me to decide not to try it. This river has been named by Mr. J. Johnston, Geographer to the Department of the Interior, "Ogilvie River."

It seems improbable that this river runs as the Indians said, but I afterwards procured other evidence, which proves that it does. I may as well present the evidence here. None of the Indians who were with me at its head were ever down the river. What they knew of it they had learned from the Indians they had met at the Hudson's Bay Company's posts on Porcupine and Peel Rivers, where they formerly used to trade. They told me that they learned more about it at Peel River than anywhere else. Afterwards, in the month of June, when going up Eagle River, I met several families of Indians on the way down to La Pierre's House. One of them could speak a little English, and I got from him all the geographical information I could about the country he had just left. I asked him particularly about this river. He confirmed all that the others had said about it, told me he had seen it several times, and that there were some very bad places on it, places where, as he described it, trees passing down would be all smashed to pieces. He stated that the river we were then on—Eagle River—headed in a small lake, from which they floated down in six days. Hence I would judge the distance to be about two hundred miles by the river, but as the part of it I saw—about twenty-seven miles—was very crooked, and they assured me all the river was just as crooked, the distance in an air line would probably not be more than half the river distance, or one hundred miles. This lake was situated in a large swamp in which a small stream formed which flowed southward to the river in question. From the lake to the river, from their statements, I would judge to be twelve or fourteen miles. Afterwards, in conversation with Mr. McDougall, of the Hudson's Bay Company, I learned that he had often heard the Indians at Fort McPherson speak of a river rising near the Yukon and emptying into the Peel, and so impressed was he by their statements that he thought of utilizing it as a route from the Mackenzie to the Yukon or Lewes. Accordingly, in 1872, he got some Indians who knew the locality to accompany him to its confluence with the Peel, about sixty miles above Fort McPherson, but he found the country so rough, and the river so swift and so unsuited to his purpose, that he abandoned all thought of crossing in that way. The Indians had always assured him that he could not get through, but he wanted personal proof, which he got in abundance in less than two days. All this I think shows that the river runs as stated by the Indians. I thought it might be one of the branches of the Porcupine, and at La Pierre's House made inquiries of the Indians, many of whom had been up both branches of that river, but they assured me it was not.

From the plateau at the head waters of the river the valley can be seen running nearly due east for a distance of not less than thirty miles. It is wide and deep. The Indians told me that they sometimes go south-eastward from this point, or, from the head of the valley to the south of this, to the head of the south branch of the Tat-on-duc, and that, after passing the mountains close to the river, the country is undulating, not rocky, and more or less wooded.

At this point the Indians turned back. Nothing that I could say or offer to them would induce them to go any farther with their dogs, and it was with much difficulty that I persuaded two of them to go ahead with one of my men, and make a track as far as the head of the Porcupine. I paid off the men with the dog teams

on the morning of the 22nd of March, when they returned to their families. The other two, with my man, started for the head of the Porcupine, a distance of about fifteen miles. They returned on the 25th, and took their departure for home.

These people have a great dread of a tribe who, they suppose, dwelt at one time in the hills at the head of these streams and still exist somewhere in the vicinity, though exactly where they do not know. While on this plateau they spoke of them in a low tone, as though fearful that they would be heard and be punished for their remarks, which were not at all complimentary. They called this tribe Na-hone; I have generally heard the word pronounced Na-haune by the whites. It appears that they inhabited the head waters of the Liard and Pelly, and were much fiercer than the neighboring Indians. Probably rumors of their aggressiveness have reached these simple and peaceful people, and created this dread, for they do not appear to have ever seen anything to justify their fears, and when questioned they could not tell anything more definite than that some old man among them had seen some indescribable thing on the mountains when he was a boy, or at some other remote date. They described them as cannibals, and living altogether outside, without shelter from the cold, and believed them to be such terrible creatures that they required no cover, but could lie down anywhere to rest, and did not need a fire to cook their food, but ate it raw. They seemed to ascribe to them supernatural powers, for, when I was trying to induce them to go on farther with me, and showed them my rifle, and told them I would shoot any Na-hone who attempted to molest me, they gave their heads an incredulous shake, as if that was too much to expect them to believe. To whatever it is due, this dread appears to be lively, so much so, that I believe only some pressing necessity, such as hunger, would induce them to remain in this locality for any length of time, and then only if they were in strong force.

From the Tat-on-due to the Porcupine by the track I followed is sixteen and a half miles. Of this distance thirteen is drained by the river flowing into the Peel. Distributed over this thirteen miles are ten small creeks, which unite eight or ten miles down the valley. I did not go down to the junction, but could from some places see the stream formed by their union, and although so near its head, it appeared to be as large as the Tat-on-due is about midway of its course. This plateau, except for the ravines in which the creeks run, is tolerably flat. It slopes to the east down the river, and is, as far as can be seen, undulating and wooded. The timber is scattered, and stunted in size; but considering the latitude and altitude it is a wonder there is any at all, the former being  $65^{\circ} 25'$ , and the latter more than three thousand feet above the sea. Where the woods are open there is much fine short grass. On the creeks the willows attain a large size, as large as generally seen in much lower and more southern countries.

From the watershed between this stream and the Porcupine down to the Porcupine there is a descent of four hundred and fifty feet in a distance of a mile and a half. Where the Porcupine is first crossed on this route it is a large creek flowing northward from between two mountains. The valley can be seen for about six miles up, when it turns to the west and goes out of sight. The stream flows in a bed of fine gravel, and the volume of water was large for the time of the year. About half a mile below this it enters a lake three or four miles long and upwards of a mile wide. At the lower end of the lake, which lies close under the foot of a lofty range of mountains, the river turns sharp from a northerly to a westerly direction, and in about a mile enters another lake of about the same size as the first one. About two and a half miles below this it enters another lake about two miles long and three quarters of a mile wide. These three lakes I have called the Upper, Middle, and Lower, Na-hone Lakes. Below these the river is twice the size that it is above. It flows in a valley about a mile wide well timbered on the bottom, much of the timber being of a fair size. On some of the flats are found many trees over a foot in diameter, long, clean-trunked, and well suited for making lumber.

About five miles below the lower lake a large branch comes in from the west. Perhaps this should be called the river, as it is much larger than the branch I came down, both in width and volume of water. It comes from the south-west, and

has quite a large valley which can be seen from the junction of the two streams for a distance of eight or ten miles. The Indians had told me of a large creek down Porcupine River, heading near another creek which flows into the Lewes. They used to go up the latter creek, cross over to the Porcupine, and go down it to fish. From their description and the distance they said it was below the lakes, I first thought this creek to be the one referred to, but afterwards I saw another branch of the Porcupine further down, which is probably the one they spoke of.

Between the upper end of the upper lake and the lower end of the middle one there is a fall of two hundred and fifty feet, and between that point and the lower end of the lower lake a fall of one hundred and forty feet. Thence to the forks the fall is very rapid, as much as two hundred feet to the mile in some places. About a mile below the forks I found the fall in the river so slight that our canoes could be used with safety. As the labor of hauling my stuff was very severe, I decided to remain here until the ice broke up and go down in the canoes. Accordingly, on the 10th of April, after having got all the stuff and the canoes down to this point, I had a small hut built with a cotton roof, and here we remained until the 21st of May.

I will now refer briefly to the different kinds of rocks seen along the Tat-on-duc and Porcupine to this point. For the first two or three miles on the Tat-on-duc the rock is a very coarse-grained sandstone; in places it might be called conglomerate. At a place four miles up I saw a small exposure of clay shale, colored with oxide of iron where exposed to the air.

Ten miles up the rock at the river level changes to limestone, but high up on the hills the sandstone can still be seen, appearing to be the principal constituent of all the mountains in sight. The limestone continues to the head of the river with occasional exposures of clay shale, in some places of carboniferous appearance. At one point, twenty miles up, occurred an exposure of it so closely resembling coal that at first sight I thought it was a large coal bed. I tried some of it in a fire. It gave off fumes of burning coal for a few minutes, and then became soft and formed a dark grey mass, somewhat resembling scoria, but soft.

Much of the limestone was stratified, but generally it was very massive, with thin veins of what appeared to be calcite, distributed irregularly, but exhibiting usually the cleavage forms of crystals of that substance. Sheep Mountain for about three thousand feet of its height appears to consist of this rock, while the upper part seems to be a sandstone like that seen further down the river. The curiously weathered wall-shaped rock I have described above also greatly resembled this sandstone, although at the distance from which I viewed it it was impossible to tell with certainty.

On the Porcupine River the same limestone predominates. It might almost be said that it is the only rock, there being nothing else but one or two exposures of a bright red-colored close-grained rock, with some small rounded fragments of a bluish-colored stone imbedded in it. There is an exposure of this rock on a creek on the east side of the river a mile and a half below the forks. It underlies the limestone, and is not more than two hundred feet above the river at this place. It apparently continues westward under the drift in the valley, for a ledge of it can be seen under water in the river not far from this exposure. Eleven miles below the forks, about a mile up the valley of a creek on the east side of the river, another large exposure of this rock was seen, but not visited, and no more of it was seen below this.

The mountains about the head of the river rise to an average height of about 2,500 feet, with an occasional peak probably 1,000 feet higher. Between the valley of the Porcupine and that of Ogilvie River the mountains are high and serrated, possessing much more the character of a range of mountains than those on the west side of the Porcupine, where the surface has more the nature of a plateau with peaks rising out of it. The range between Porcupine and Ogilvie Rivers I have named the Nahone Mountains, as the Indians considered them the home of that people, as I have already mentioned.

Looking down the river from my spring camp, on clear days, a lofty peak was visible about twenty or twenty-five miles away. It towered at least one thousand

feet above any peak seen near it. I have named this Mount Burgess after the Deputy Minister of the Interior. The top part seemed in the distance to be of different rock from the base. It rose perpendicularly from the *débris* on the slope, and was weathered into castellated shapes. It may be that a portion of the sandstone seen on the Tat-on-duc has been left on this high peak by denudation. I hoped to be able to get a closer view of it on my way down the river, but when I got down to its vicinity it was hidden by intervening peaks.

While waiting in camp on this river for the ice to break up I employed myself in plotting my survey from the Lewes to this point, and, when the weather permitted, in taking observations for magnetic declination, inclination, and total force. I also took transits of stars over the prime vertical, from which I found the latitude of the place to be  $65^{\circ} 43' 00''$ . I tried on several evenings to observe the meridian transit of the moon for longitude, but could get nothing satisfactory, as at that time of year (May) there was twilight all night, and small stars could not be seen, so that I was restricted to first and second magnitude stars, which, unfortunately, on the nights when I could observe the moon, were few and far between. The mean of three transits is  $139^{\circ} 43' 00''$  west of Greenwich, but this may be in error several minutes.

The mean height of the barometer here during May was 27.60 inches, indicating an elevation of about two thousand feet above the sea level.

Notwithstanding the high altitude and latitude, the timber and shrubbery in the bottom of the valley grew as large and strong as on the upper Lewes, in five degrees lower latitude. Surrounding my camp was a timber-covered flat about two square miles in area, on which grew many nice trees upwards of a foot in diameter. Nearly all of these were spruce, but there were also some clumps of cottonwood, the trees in which averaged nearly as large as is the same species along the Athabasca and Peace Rivers. Willows are abundant along the streams, and grow as large as they generally do in other parts of the territory, being not unusually four or five inches thick. A few white birch were seen. No timber was noticed out of the immediate bottom of the river valley.

Owing to the isolation of this district animal life is abundant. Here, for the first time since we entered the Yukon basin, appeared indications of beaver, several of which we saw when spring came, and one we killed. Otter, too, were numerous, and a few marten were seen, but the latter were not plentiful in this vicinity. No rabbits were noticed, and the only indications of beasts of prey were a few tracks of fox and lynx. Ptarmigan were numerous. These are very pretty birds in the spring when they are exchanging their winter coat of snowy feathers for their summer garb, their color turning on the neck first from a pure white to a reddish brown. Numberless cariboo wander over the mossy slopes. These animals live on a moss which they find high up on the hill sides in the winter, and lower down in summer. I have seen hill sides on which the snow had been pawed over for upwards of a mile in length and a quarter of a mile in breadth, hardly a square rod of it being missed. The animals stand facing upwards, and pull the snow down towards them, uncovering a patch of their food, which cropped, they pull the snow above into its place, and so on to the top. I killed one of these animals, intending to use it for food, but found it so infested with parasitic larvæ underneath the skin (in every way resembling those found on cattle) that the thought of eating it was revolting. In the spring they are also very poor. Their numbers could not be estimated, as they abound throughout the district.

It does not appear that any Indians have hunted here for many years. Apparently their only visits to the district were in going to the Hudson's Bay Company's posts on the lower part of Porcupine River, and on Peel River, before trading posts were established on the Lewes by Harper, McQuestion & Co.; they used at that time to cross by a creek which I identify as one below this point, to be mentioned in its place, build rafts or skin boats, and float down to Bell River, up which they went to LaPierre's House, sometimes crossing to Fort McPherson. As nearly as I

could learn from them, it is seventeen or eighteen years since last they made this journey.

Moose are very numerous, and seem to be much less fearful of man than in any other place I have seen or heard of. I had been told that in the winter the Indians pursue them on snowshoes, and run them down. This they actually do, but not until the snow is deep. One day I started after a moose intending to run it until I was close enough to shoot, but this I could not accomplish. It could not get away from me, but I could not gain on it. Had my snowshoes been large enough to support me on top of the loose snow I could doubtless have captured it; but often, when gaining fast, I sank above the knee in the deep, soft snow, and fell headlong. Before I could get under way again the animal had a fresh start. At last, having run fully five miles after the brute, I got tired of the unequal contest, and gave up the chase; but not before the moose showed signs of much distress, his tongue hanging out, and being so winded that he stopped whenever I did. I afterwards found that the snowshoes used for the purpose are made specially large, the rule being that the shoe is made the length of the man who is to use it, and about fifteen inches wide; while my shoes, though of that width, were only about two feet long. Had I used a pair of the proper size I have no doubt as to the result, as often, in deep soft snow, the moose have hard work to get along at all. Of course in shallow snow a man would have no chance in the race. In the winter months these animals live on the buds and young twigs of the willows, and such numbers of them had been near where we were camped that all the willows for miles above and below were cropped almost bare.

On 21st May the river near camp was so clear of ice that I thought it must be open all the way. I therefore started, but when I got three miles down I found the river solidly blocked with ice for miles. Here I was compelled to stay until the 28th.

Before continuing the passage down the river I will mention a few facts bearing on the climate. The lowest temperature in the month of April was on the 4th—37° below zero, and for six days afterwards all the minimum temperatures were below 30° below zero. The last time the thermometer registered a minus reading was the 5th May, minus 1°-8. The highest temperature in April was on the 30th—40° above zero. The highest temperature in May was on the 17th, 55°. The first time the snow showed signs of melting was 29th April. The first appearance of insect life was 30th April, when a small fly came out of the river in great numbers, flying about and crawling over the snow. The water in the river began to rise on 6th May. The first geese were heard flying overhead on 8th May; they were flying in a south-westerly direction, as though they had come from the Mackenzie. The common house fly made its appearance the same day. The first swans were heard 11th May. First mosquitoes seen 14th May. First cranes heard 15th May.

On the morning of 28th May we again started in our canoes for the Mackenzie. The river was not yet clear of ice, but sufficiently so to enable us to work along, waiting occasionally for it to move. Ten miles down a very large ice jam was reached, the river being full of ice for about a mile. This had raised the water up into the woods on both sides, so that we could not pack past it, nor could we find camping ground until we went back some distance. Here we were forced to remain the rest of that day. The following morning the jam had moved down so far that, with some difficulty, the dry land could be reached on the east side; so I decided to bring the canoes and equipage to that point and pack everything down to the foot of the jam, about three quarters of a mile. Just when we had finished this the jam burst, and cleared the river, leaving us no better off than if we had waited. The journey was then resumed.

About six miles below this, or seventeen below the forks, a large creek comes in from the west. This is, I believe, the creek by which the Indians used to come over from the Lewes. Here are many old racks for drying fish, from which I call this creek the "Fishing Branch" of the Porcupine. The waters of this stream are

black in color, and clear, while the waters of the main stream are usually blue, though at that time turbid.

While descending the river I determined roughly its fall by reading my barometer every half hour or so, and calculating the descent from the difference of readings. In this way atmospheric changes would affect the result but little, as the change could be but small in such short intervals of time, while the descent was quite rapid. There are no dangerous rapids on this river, but it is all swift, running over a bed of lime gravel. The fall barometrically determined, between the forks and the tributary last mentioned, was three hundred and ninety-five feet, but the greater portion of this was in the upper half of the distance.

Just below the Fishing Branch another extensive jam stopped any further progress for the day. Next day the journey was resumed, but through and over ice for about eight miles, when another impassable jam was encountered. It was piled up until the water filled the whole valley, but by wading, packing and canoeing through the woods it was safely passed. Here I made an ascent of one of the hills bordering the river, and found it to consist of the limestone already mentioned as constituting the bulk of the mountains further up. The timber was much the same, with the addition of some small tamarac. The journey was resumed in the evening. At one point there is a sudden turn in the river, and just below it a rapid which is very rough, but has no rocks in it. This was entered before there was any time to stop, and it had to be run, with no other mishap, fortunately, than one of the canoes filling with water and nearly sinking before we got through.

Twenty miles below the Fishing Branch the river leaves the mountains, the last peak near it being on the west side, and so close that the river runs under its base. This I have called "Mount Dewdney" after the Hon. the Minister of the Interior. It is of the same limestone formation as all the others. No sign of stratification was observed along the Porcupine, nor were traces of organic remains anywhere seen. Mt. Dewdney rises about two thousand five hundred feet above the river, or nearly four thousand feet above the sea, the river here being about one thousand three hundred feet above sea level. The fall from Fishing Creek to the base of this mountain is three hundred feet. As far as can be seen from this point the mountains trend east and west. Those on the east side of the river were apparently not so high, and they gradually sloped off as if another deep valley pierced them at no very great distance to the east.

From here down the river winds through an undulating and wooded country, the banks being nowhere more than eighty to a hundred feet high, and generally consisting of clay, with occasional exposures of a black shale, which decomposes into a rich black clay. The timber on the uplands, though thick, is not large enough for any other purpose than fuel. This description answers generally for the whole valley down to the mouth of Bell River. In the bottom, close to the river, there are scattered clumps of spruce that would make fair lumber, but not sufficient to induce any one to think of it as an article of trade. About thirteen miles below the mountains a large rock exposure occurs on the east side of the river. It extends for about half a mile, rising three or four hundred feet above the level of the river, and is weathered into fantastic resemblances of old buildings. I have called it Cathedral Rock from its resemblance to some old churches I have seen pictured. The rock appeared to be limestone, but I am not sure. It may have been sandstone, but as it was some distance from the river I did not take the trouble to go to it.

About twenty-five miles below the mountains, and three or four miles to the west of the river, a high, wooded, terraced ridge rises out of the plateau; another one, much the same in appearance, can be seen further west. They appear to be the result of denudation. A smaller one is seen below this about three miles.

About thirty-eight or forty miles below the mountains a large tributary comes in from the south-west, but I noticed no valley in the mountain range out of which it appeared to come. It is probable that it skirts the northern edge of the hills for some distance west, and is fed by small streams issuing from them. Above this tributary the current, though not rough, is generally so swift as to prevent steam-



boat navigation. Below the junction no difficulty would be found in running steamers of moderate power. What draught the summer stage of water would allow I had no means of determining, but I think a flat-bottomed boat drawing two to two and a half feet could always find water enough. I used to try with my paddle where I had reason to think it shallow, but never found bottom, and, as the banks are flat and low, it seems likely that there is not much variation in the height of the water in this part of the river.

About a mile and a half below this stream the river is joined by another from the south-east, apparently as large as the one I came down. The average width below the mountains of the river I had followed was from one hundred to one hundred and fifty yards. The width of the other branch is about the same. I afterwards learned that the Indians in the vicinity of LaPierre's House go up this branch to the mountains to hunt. The band that most frequents it was up at its head when I passed, so that I could learn nothing definite about it. The fall from the mountains down to the mouth of this branch is four hundred and sixty feet, one thousand and fifty-five feet in all from the forks above my spring camp, the distance being about seventy-eight miles, and from the Lower Na-hone Lake the fall is about one thousand three hundred and fifty feet in a distance of about eighty-two miles. From this we get the altitude of the confluence of these two large branches as approximately nine hundred and fifty-five feet.

From this point down the fall is not noticeable by barometer, and the current is very slow—so slow that a head wind of twenty miles an hour would almost drive the bare canoe up stream. Below this to Bell River the river runs through an undulating country, covered with small spruce, white birch, and some cottonwood. The soil is all clay, and if the climate would permit, it would rank well as an agricultural country. There are some exposures of much weathered clay shale along the river. Below the junction of the two branches the river averages from two to three hundred yards in width, with banks twenty to forty feet high. From the junction to Bell River the distance by the survey is about sixty-seven miles; but it must be borne in mind that this measurement does not follow the windings of the river, which would about double it. Sights were taken from point to point in the valley, and the distances estimated. The river is in general very crooked, and there are some large islands in it. The barometer readings were noted at frequent intervals to get the fall in the river; but as the fall was very gradual, not much reliance can be placed on the result obtained in that way. However, I give it for what it is worth. In the last stretch it was one hundred and thirty feet, thus making the altitude of the mouth of Bell River eight hundred and twenty-five feet above the sea. I have a check on this result, which will be given further on.

Bell River enters the Porcupine from the east. At its mouth and as far up as its confluence with Eagle River it is about one hundred yards wide, with low banks thinly wooded. To the north at some distance are high hills, wooded well up the slopes. The Rocky Mountains can now plainly be seen to the east twenty to twenty-five miles away. I got a poor observation for latitude at the mouth, and found it to be  $67^{\circ} 19'$ .

For about ten and a half miles the general direction of the river is north-east, it then takes a general south-east direction for nine and a half miles to where Eagle River enters from the south. By mistake I went up this river one day's journey, about twenty-seven miles. Here I met some Indians who had been hunting at its head waters, and were now on their way down to LaPierre's House. The country along it, as far as I went, is flat, and near the river timbered with spruce and cottonwood of the same general character as that on the Porcupine. The soil is generally clay, but occasional sand banks overlie the clay to a depth of fifty to one hundred feet. These banks are few and isolated from each other, and appear as if deposited by a sea, the intervening tracts being afterwards washed away. About six miles from Bell River an exposure of coarse-grained sandstone, much resembling that on the Tat-on-duc was seen, but it is stratified. The strata, however, are thin, not more than a foot in thickness, and much bent. This exposure could be seen

along a bend of the river for two hundred yards only, and rose but ten to fifteen feet above the water. As far as I followed it, this river is very crooked, with a moderate current. Just above the sandstone exposure there was a slight ripple, while another just below it showed shallow water—only three feet. I understood from the Indians that this spot is very shoal in low water, there often being not enough water to float a canoe over it. They described the whole river as much the same in character as the part I saw, and the country along it as generally flat, and all timbered. They say game is plentiful along it. They had gone up in March and hunted until June, when, some of them having made rafts and others skin boats, they came down to dispose of the furs they had captured. To make a skin boat they sew together the necessary number of deer or moose skins, raw, with the hair taken off. A keel is laid down, and willow ribs and frame work of the proper dimensions attached to it. The skin cover is then softened in water, and stretched over it; then, when dry, the skin is well rubbed with melted fat. When the trip for which it was built is over the skins are taken off and used for other purposes.

When I learned from these Indians that I was on the wrong river I at once turned back and reached Bell River at one o'clock a.m., having started at nine. The sun could occasionally be seen down the valley of the river to the north, well above the horizon. The people in this district, in the summer months, do nearly all their travelling and labor during what, in our latitudes, would be the night, of which, at this season of the year, they have none. Their reason is that it is cooler to labor then, and warmer in the day hours to sleep.

I induced one of the Indians who could speak a little English to accompany me to LaPierre's House. After resting a few hours at Bell River after our long day's labor, we started. On the way we had to break through three ice jams. It surprised the Indians much to see us dash our canoes on a sheet of ice, and often break it in that way. If the ice proved strong enough to carry us we got on it, hauled the canoe across, and embarked again, to repeat the operation on another mass. The ice by this time was generally pretty rotten, but often masses of sound ice upwards of five feet thick were encountered. When one gets into a jam of this kind he has to keep a sharp lookout, lest his canoe be crushed, and often, to save it, he has to jump upon the ice, and haul out his canoe as quickly as he can. We labored hard in this way all day, and reached the House about nine in the night, or rather afternoon, of 6th June. There were many natives here, and our canoes and outfit generally were a great novelty to them. Our Indian's account of how we worked with them through the ice astonished them greatly, and they thought the white man's canoe almost a creature of life and spirit.

June 7, I spent at the House. I intended to determine the latitude, but just before noon the sky clouded, and all I could get was a very poor meridian altitude of the sun, through clouds. This gave me  $67^{\circ} 23' 41''$ . I observed for magnetic dip and total force, but not for declination, as I had no means of determining the meridian reading of the instrument.

A mile above Eagle River, Rock River flows into Bell River from the south-east. It is about fifty yards wide, shallow, and in its bed are many large rocks—hence its name. The Indian with me told me it rose far up in the Rocky Mountains, and that it took many days to reach the head of it. He pointed out from its mouth its general direction, which is about south-east.

About three miles above Rock River there is a slight rapid, which, however, would not prevent navigation. At this point on the east side of the river is a high rock cliff, consisting, as I supposed, of clay shale; but as Mr. R. G. McConnell, of the Geological Survey staff, passed through here on his way down the Porcupine, he no doubt has examined it, and reported upon it, as well as upon all other rocks in the vicinity.

A short distance below the House, Waters River enters from the north-west. It is a stream about forty yards wide, and appears to have a considerable volume of water. It is said to be forty to sixty miles long, rising in a range of mountains which can be seen from its mouth.

About five miles above the House in an air line, but much more than that by the river, which is very crooked, Rat River joins from the east. It is a small river—in fact is hardly worthy of the name. On it LaPierre's House was first built, but wood getting scarce it was moved to its present site. Only a short time must elapse before it will have to be moved again, as wood is getting scarce near its present position and has to be hauled some distance. The post here is kept up mainly for the meat it furnishes, the country around it abounding with game. The tongue of the deer or the moose is considered a delicacy, and the Indian generally brings it to the post, as he gets more for it than he would for an equal weight of other meat. The clerk in charge informed me that he had sent away that year thirteen hundred tongues to other posts, so that probably about two thousand animals were killed in this vicinity.

Bell River is named after Mr. J. Bell, of the Hudson's Bay Company, who crossed to it and descended it to the Porcupine in 1842. He also followed the Porcupine below the junction for three days. Porcupine River, I understand, was called so on account of the numbers of that animal that existed in its valley. Why Eagle and Rat Rivers were so called I did not learn.

The route always travelled from this post to Fort McPherson crosses the mountains in a pretty direct line. There are two routes, one for winter travel and one for summer. The distance between the two points is called about eighty miles, and it generally takes three days to make the trip.

All the trading outfit for LaPierre's and Rampart Houses has to be brought this way in the winter months on dog sleighs, and the furs and meat received for it have to be taken to Fort McPherson in the same way. From there the furs are sent out by the Mackenzie. This is so costly and slow that in 1872 Mr. James McDougall, (now Chief Factor), then a clerk in the Hudson's Bay Company's service, thought of trying some more convenient and expeditious way. Accordingly he made an exploration and survey of a pass through the mountains to the north of this route, with a view to building a waggon road through it, and using oxen to transport the goods from one waterway to the other. I went through this pass on my way to Fort McPherson, and will describe it in its proper place.

Mr. McDougall, also, in July, 1873, when the water was unusually low, made soundings in Bell and Porcupine Rivers to determine the practicability of steamboat navigation, carefully examining both rivers in places suspected of being shallow. Between LaPierre's House and Yukon River he found five shoal places, where the depth was less than four feet. The depths and localities of these he has kindly furnished me. The first is at Sinclair's Rock—in the rapids I have mentioned as being below LaPierre's House. Here the shallowest place was three feet six inches deep. Next, a short distance below Bell River, in the Porcupine, he found only two feet eight inches. This place he considers could be easily improved. Approaching it, for one hundred yards the water is three feet deep; then occurs rock (sandstone, he thinks), with a depth of water two feet eight inches for ten yards, when it suddenly drops to four feet. The other three places are between Rampart House and the Yukon, and consequently in Alaska. Their depths in the order of descent were, respectively, three feet ten inches, three feet six inches, and three feet four inches. At one of these places there was an island close to one shore and Mr. McDougall naturally took the wider channel to be the deeper, but he afterwards learned that the narrow channel was quite deep.

On the morning of 8th June I started from LaPierre's House to go up Bell River to the pass above mentioned as having been explored and surveyed by Mr. McDougall, having as a guide the Indian I had brought from Eagle River, who had been through the pass once or twice and was supposed to know all about it. I carried on the survey, as on the lower part of the river, by taking compass bearings of prominent points on the river and estimating the distances to them. In this way I made the distance to the point at which we leave Bell River to go through the pass to be about twenty-one miles; yet, owing to the many and long sinuosities of the river and detentions from ice jams, one of which delayed us half a day, it was three days

before we arrived there. The current is nowhere strong, but there are some shoal places where the heavy ice, fully five feet thick, grounds and piles up until the accumulated water behind pushes it over.

On the morning of the 12th my guide told me that most likely we would reach the mouth of the creek, which flows from the pass, about dinner time. Judge my surprise, therefore, when a few minutes after starting he pointed to the mouth of a stream almost hidden by willows and alders, and asked if I thought that was the creek in question, and when I said "No," he assured me it was. I could not believe him until I went ashore and found the preparations that had been made by Mr. McDougall to build a storehouse in which to deposit the goods brought through the pass. I may here call attention to the length of time hewn timber in this country will preserve a fresh appearance. Here were trees cut, and sticks hewn in 1872, yet had I been asked what length of time they had been cut I would have answered "A year or so." I noticed the same thing on the upper Porcupine—cuttings there seeming to me to be only a few months old; yet I knew from what the Indians told me that they were quite as many years as I thought months.

The canoes were put into the creek, which is only thirty to forty feet wide. For the first two or three hundred yards the water was deep, and smooth enough to paddle along with ease, but then came the end of our pleasure. The creek for about a mile and a half was one continuous rapid, not dangerous, because there was not enough water to hurt anyone, but so shallow that it would hardly float the canoes when all the men were out of them; so we had to wade in the ice water, while snow was falling, and drag our canoes, with our outfit in them, over the bars and stones in the creek, until at last even that comfort was denied us, for we reached a part of the stream where the ice was still solid, and at least ten feet thick, so that everything had to be packed for nearly a mile, to where the creek was again clear of ice, when we re-embarked and floated up about three miles in a straight line, but certainly twice that distance by the stream. Here everything had to be carried about four miles across the watershed of the pass to a creek which flows into Trout River, a tributary of Peel River. On the summit of the pass are several lakes, which, had they been open, would have reduced our packing to less than half a mile; but the ice was still solid, with only a few pools of open water around the edges.

On the morning of the 15th everything was got across to waters flowing to the Arctic Ocean, but the creek was so full of snow and ice that it did not help us much, and, although it was only three and a half miles to Trout River, the whole day was consumed in getting there. This pass, which I propose to name McDougall's Pass, after the man who first explored and surveyed it, is wide and level, the valley being nearly a mile wide at the bottom, and very flat. It is almost treeless, only a few stunted spruce being found near the lakes, and a few willows on the creeks. Some coarse grass grows in the valley, but when I was there, there was no sign of growth. The distance from Bell River to Trout River I estimate to be fourteen and a-half miles. On the north side of the pass I have named two prominent peaks "Mt. Dennis" and "Mt. Russell."

I may say here that I compared notes of survey with Mr. McDougall, who measured his distance with an error probably not greater than one in a thousand. His survey followed the valley of the pass from bend to bend and cut off many turns in the river, while mine followed the course of the river more closely, and is consequently somewhat longer, the actual difference on the whole distance being about five miles; but when I take off my plot a length corresponding as nearly as possible with a line of Mr. McDougall's survey, I find the difference very slight. Many of his pickets were still standing, with a piece of sod on top of them, as fresh-looking as though they had been planted but one year, instead of sixteen.

Returning now to the question of altitude, I will calculate the height of the summit of the pass from that of the mouth of Bell River, and compare it, found in that way, with the altitude deduced from the descent of Peel River.

I have put the altitude of the mouth of Bell River at eight hundred and twenty five feet; allowing a rise of a foot to the mile in that river we get eight hundred and

fifty feet for the altitude of LaPierre's House. Continuing the same rate to the west end of the pass we got about nine hundred and twenty, the distance by the river being about seventy miles. By barometer readings the difference of elevation between Bell River and the summit of the pass is about two hundred and fifty feet, but this determination is unreliable on account of the length of the time elapsed between the readings at the two places. From the appearance of the slope I would estimate the rise to be not more than two hundred feet, if indeed as much; but, assuming the barometric height as correct, we have eleven hundred and seventy feet as the altitude of the summit. While going from the summit down to Peel River I determined the rate of fall by half-hourly readings of the barometer, as I did on the Porcupine. This gave the fall from the summit to slack water on Trout River as eleven hundred and thirty feet. The last point is seventy or eighty miles from the Arctic Ocean, and probably as many feet above it, thus making the height of the pass about twelve hundred feet, or only thirty feet more than the determination by way of the Porcupine. It cannot be claimed that either determination is correct, or that this close agreement is anything more than chance; yet, it is much more satisfactory to have them so than with a large difference.

From where we enter Trout River by this route to the head of slack water is about twenty-four miles by the river. In this distance the fall is one thousand and ninety feet, but to determine what the grade of a road built on this, by far the steeper side of the pass, would be, we have to assume a nearly straight line, instead of following the bottom of the river valley. This would reduce the distance to about twenty miles, thus giving an average grade of fifty-five feet to the mile on this side of the pass. This is not too great for any kind of roadway which may be built here.

The Indian with me said that both Bell River and Trout River rise far up in the mountains; that he had been several days' journey up both, and that there they were still quite large. He also said that Bell River, a short distance above the pass, is rough, with a generally swift current and many small rapids. Trout River, where we strike it on this route, is about fifty yards wide, shallow, and very swift. The mountains on both sides rise two or three thousand feet above the pass, with many isolated, high, sharp peaks. Most of the rock I saw was granitic; some quartzite is found on the south side of the pass at the summit. Mr. McDougall, who appears to have travelled all through the mountains in this vicinity, told me of an immense dyke which he saw in the hills on the south side of the pass. He described it as bridging a deep and wide ravine, presenting the appearance of an immense wall across it. Three or four miles down Trout River from the pass a small specimen of asbestos was picked up in the drift in the river. In a conversation with Mr. McDougall I mentioned this and asked him if he ever came across any of it in his ramblings through that district. He informed me that not far from the place where I found the specimen there were several veins of it at the foot of the slope on the south side of the river. The rocks seen along the river here are not the rocks usually associated with asbestos, but Mr. McDougall's evidence is that of an eye-witness.

Ten and a half miles down the river we reach the cañon. Here we are out of the mountains, and the character of the rock along the river changes completely, being here sedimentary. The walls of the cañon are a stratified sandstone, the top strata appearing to be harder than those lower down. There are exposures of this rock all the way down to the foot of the swift water. I never could stop when near an exposure to examine it, as there was always a rapid alongside it, but it resembled in appearance the friable sandstone seen throughout the North-West.

At one place, while I was running past a cliff in a rapid, I saw what seemed to be a coal seam in the face of the cliff. It was three feet or more thick, and extended the whole length of the cliff—about a quarter of a mile. I told Mr. McDougall of this, and he informed me that he had found the same seam, and had taken some of the coal to Fort Simpson, to be tried in the blacksmith's forge there, and it was pronounced a fair quality of coal. The last rock exposure seen in descending the river is just at the foot of the swift water. On the north bank there is a low cliff of

soft red sandstone, much weathered, as well as worn by the water of the river, which shows its softness.

The walls of the cañon, in which the river takes a sharp turn, are about eighty feet high. On the outside of the curve the walls are perpendicular, but on the inside they are not so steep nor so high. It appears as if there had been at one time a fall over this sandstone barrier, since it extends completely across the river valley, and is not more than a hundred and fifty yards thick. Above the cañon the river is generally wide and shallow. In many places it is spread over gravelly flats, so that in very low water one could easily conceive the river flowing through without any water being visible. The fall in the ten and a half miles is three hundred and sixty feet. The current is always swift and rough, but there is no danger in navigating it in canoes, excepting a liability to rub the bottom once in a while. The fall is uniform to the cañon, but below it there is a succession of rapids with short intervening stretches of easy water. The fall between the cañon and the head of easy water is seven hundred and thirty feet, which, in a distance of fourteen miles, gives fifty-two feet descent to the mile. This would not be at all dangerous over a uniform slope and a smooth bottom, but divide it into two or three rapids, and throw a lot of large rocks into them, and it makes running through them in a small boat exciting, to say the least. Fortunately for us, we got everything through safely, the only inconvenience being that the canoes had to be bailed out at every rapid. It is often said that "it is the unexpected that always happens." This, my experience on this trip verifies in a small way. My canoe had come through all the various vicissitudes and dangers of a thousand miles, and had safely run over this the last rough water it would have to encounter, but in the last yard it struck on the end of an unseen stick, which fractured the side so that the canoe would have filled in a short time. It was unloaded, the fracture filled with white lead, the side pressed back to its original shape and fixed there by a piece fitted to the inside, and rivetted with wrought nails, and the canoe was again to all intents as good as before.

Mountain goats and big-horn sheep abound in the hills around the pass. While going through I saw how the Indians, by stratagem, sometimes secure cariboo and moose, when the snow is not deep and they are consequently hard to approach. A ravine which is full of snow is selected, and round it, on the lower side, is built a brush fence, which is extended outwards and backwards to the uplands on each side, diverging until the ends are some miles apart. The fence consists merely of crotched sticks stuck into the snow at suitable distances, with poles laid horizontally in the crotches, due care being taken to cut and mark it so that the agency of man in its erection is made very evident. A party then scours the country around the mouth of the trap, all the time gradually approaching it, driving any animals in the vicinity, by noises and other means, between the arms, which the brutes avoid as soon as they see. They are thus gradually driven to the snow pit at the end where they are easily despatched. Had the brutes sense enough they could easily dash through the fence, but they will not approach it.

From the foot of the rapids to Peel River the current is very slow, and about four miles down the river branches, the southern branch spreading out into numerous lakes, in which we were a day paddling around trying to find our way out. In most of them the ice was still floating. Had the Indian taken the north channel we would have saved nearly a whole day in time, but he thought the south channel was the right one until we were lost in it, and then recollected that we should have taken the other one. These channels join again below the lakes and continue on to Peel River.

The surface here is flat and swampy with much good timber. Although this was the most northerly point reached (about 67° 45') the trees on this flat were as large on the average as those seen anywhere else on the survey. The Indian told me they called this part of the river Poplar River, from the fact that much of that wood grows along its banks near the mouth. That poplar grows on it is no very distinguishing feature, so I propose to name it Trout River, from the abundance of trout

that are caught in it up in the mountains. According to the Indian's story they are very abundant.

Two streams join Trout River, one a mile below the cañon, and the other just at the foot of the rapids. The first is about as large as Trout River above the confluence. The Indian gave me its name in his language, but it was almost unpronounceable. When translated it was in English "The river that is filled with snow." This name is given because up in the mountains the valley is drifted full of snow in winter, some often remaining until the next winter. He said if we went up the valley we would see the water running under snow arches for long distances. I had seen a similar phenomenon on a small scale for two miles on a creek in McDougall Pass. The river comes from the south, and the trail from LaPierre's House to Fort McPherson crosses it. The other river, called Long Stick River, comes from the north-west, and is not more than eighty feet wide at its mouth.

Peel River was reached on the evening of the 19th June, and on the morning of the 20th, at eleven o'clock, we arrived at Fort McPherson.

#### SECTION 4.

##### *Exploratory Survey from Fort McPherson to Fort Chipewyan by way of Peel and Mackenzie Rivers, Great Slave Lake and River, and Lake Athabasca.*

Fort McPherson is built on the east bank of Peel River, some fourteen miles above the point where it divides and joins the Mackenzie delta, which is common to both rivers.

The fort stands on a high bank, consisting of gravel, under which some shale can be seen close to the water. About a mile down the height of the bank decreases from fifty feet or thereabouts to ten or twelve, and consists wholly of alluvial deposits. The river at the fort is about half a mile wide, with moderate current.

The country surrounding the delta of the Mackenzie has evidently been a part of the Arctic Ocean which has been filled up with deposits brought down by the river.

On this soil the growth of timber is, for the latitude, very large and thick, many spruce of from twelve to fifteen inches diameter occurring along Peel River, as well as along the Mackenzie for some miles up.

At Fort McPherson I at once set about making preparations to resume the micrometer survey and carry it from this point to Fort Chipewyan, on Lake Athabasca, there to connect with my micrometer survey of Athabasca and Peace Rivers. The 21st and part of the 22nd of June were spent in this way.

On the 21st I tried to make some observations for latitude; but as the sun never set I could get only one or two meridian altitudes of first magnitude stars in addition to that of the sun. The instrument used was faulty, so that the result,  $67^{\circ} 26'$ , cannot be accepted with much confidence, as it may be in error a minute or more.

I observed on the sun, east and west, for azimuth, and that night did what no other Dominion Land Surveyor has, I think, ever done, viz., took the sun's lower or midnight transit across the meridian for time.

On the 22nd I took a set of magnetic observations, and all the necessary preparations for the survey being completed, started the work at six o'clock that evening, completing about seven miles.

I could find no one around McPherson who knew much about Peel River, and as my own observations were confined to that part of it below the fort, I am not able to say much about it. The distance from the fort to where the river branches into the Mackenzie delta is thirteen miles, and through the delta to Mackenzie River proper, thirty-one and a half miles.

Between Peel River and the Mackenzie about two thirds of the channel in the delta averages more than a quarter of a mile wide; the remainder about one hundred yards. All of it was deep when I passed through, and the Hudson's Bay Company's steamer "Wrigley," drawing five feet of water, finds no difficulty in navigating it.

The banks do not rise more than ten or fifteen feet above the water, and the current is continually wearing away the soft deposit and carrying it down to the lower part of the delta and the Arctic Ocean.

Where we enter the Mackenzie proper the channel is three fourths of a mile wide, but it is only one of four, there being four large islands there. The whole width of the river cannot be less than three or four miles.

Looking northward down the westerly channel the view is bounded by the sky, and widens in the distance so that one can fancy he is looking out to sea. This can hardly be so; but, from the altitude of the bank where I stood, added to my own height, the horizon must have been six miles away; and a bank in the channel of equal height to that on which I stood would have been visible twice that distance. Now, if the supposed bank was timbered, as was that on which I stood, it would be visible ten or twelve miles farther, but none was in sight.

From the entrance of the small channel of Peel River to the head of the upper island in the Mackenzie is nine miles. From the west shore to the southerly point of this island is a mile and a quarter; from the island to the east shore the distance is nearly as great, showing the river to be more than two miles wide at this point. However, it gradually narrows, and five miles above this is little over a mile wide, which it averages up to the narrows, about sixty miles from Fort McPherson, or twenty-eight from where we entered it.

A north wind raises quite a swell here, and the salty odor of the sea air is quite perceptible above the delta.

The banks continue low and the country flat on both sides of the river for some nine miles above the islands.

The shore on the east side is sloping, while that on the west is generally perpendicular, showing the action of the current, which is wearing into and carrying away portions of it. This form of bank changes into steep shale rock, that on the east being about fifty feet high and that on the west apparently sixty to eighty. Both banks are perpendicular, and gradually increase in height as far as the Narrows, where they are probably one hundred and fifty feet above the water. The easterly bank through the Narrows is almost a sheer precipice to the water, but that on the westerly side is not quite so abrupt.

Red River enters the Mackenzie on its west side just at the foot of the Narrows. It is about two hundred yards wide at its mouth and appears to be shallow. As far as I could learn from persons acquainted with the river, it comes from a flat, swampy country.

A winter trail crosses from Fort McPherson to the Mackenzie near the confluence of Red River, and the surface of the country along it is said to be covered with woods, marshes, and ponds.

In the Narrows the Mackenzie is nearly three-fourths of a mile wide for a distance of five or six miles, when it expands to its normal width of a mile or more. In one part of the Narrows there was not more than five feet of water on the west side of the river for some distance out from shore. In low water this becomes bare, and reduces the width of the river to half a mile for a short distance. Hence, this place is called the Narrows. The current here is swift, being not less than four and a half miles per hour. Coming up the river, we turn sharply at this point from south-east to north-east, but after passing the Narrows we resume the former course.

A few miles above the Narrows the banks change from rock to clay and gravel, and continue generally steep and high as far as Fort Good Hope. In a few places the bank recedes from the river for a short distance, forming a low flat, on which generally grows some fair spruce timber. I noticed that these flats are being eaten away by the action of the current and waves. The greatest extent of level ground I saw is at the site of old Fort Good Hope, on the west side of the river; but, as I came up the east side, I cannot say exactly what the timber there is like, but judging from its appearance at the distance of a mile it is large and long.

From the delta up the river is clear of bars and islands during the stage of water at which I saw it, for a distance of about eighty miles. It then widens to



two miles or more, and there are some scattered bars and small islands. The current is uniform, as one would expect in such an immense volume of water, and never exceeds four miles an hour. There are many places where, looking up and down the valley, the view is bounded by a water horizon, and it has more the appearance of a lake than a river.

Wherever possible the width of the river was determined by triangulation. Between the Narrows and Fort Good Hope it is never less than a mile wide and is often more than two, even reaching three miles at some points.

Since I followed the shore, I cannot speak of the depth of water from personal observation. Capt. Bell, of the Hudson's Bay Company's steamer "Wrigley," informed me that the shallowest water found by him in any part of the river, in what he considered the channel, was eleven feet. But as, when I saw him, he had made only two trips on the lower river, he could not speak very definitely as to its depth. Sir Alexander Mackenzie, who discovered the river and descended to its mouth in July, 1789, had a lead line with which to make soundings; but, in the swift current a short distance above Fort Simpson his lead caught in the bottom, the line broke, and the lead was lost. I have the depths according to him, and will give them in their proper place. One would expect, in such an expanse of water as this, to find some of it shallow, but it appears from all the evidence I could gather that vessels drawing from eight to ten feet of water would find no difficulty in navigation as far as Great Slave Lake. Although the river is reported to be shallow where it leaves this lake, doubtless a channel could be found affording the draught above mentioned.

No rivers of importance flow into the Mackenzie between Red and Hare Indian Rivers. Sixty miles above Red River a stream one hundred yards wide enters from the north-east. I think this is a river which an old man at Fort Good Hope described to me as one up which a Hudson's Bay Company's officer went many years ago to its source, which he found to be not far from the head waters of Anderson River, which flows into the Arctic Ocean. It would appear from the old man's statement that several trips up it have been made since; but his information was vague, and I afterwards met no one who could give me a reliable account of this river.

One hundred and thirty miles farther on Loon River enters from the east. This river is from eighty to one hundred yards wide. The person from whom I received my information concerning the last mentioned stream had also explored this one for some distance and gave me the following notes: For eight miles there is good canoe navigation, then a rapid half a mile long occurs, at the head of which is a lake about three miles long and one broad, in which the Indians catch many fish. This is called "Rorrie Lake," and some distance above it is another some two miles in diameter, and called "Round Lake" from its shape. Above this again there is a succession of lakes for many days' travel.

Twenty miles above the mouth of the last mentioned stream, Hare Indian River flows into the Mackenzie on its east side. It is about two hundred yards wide at its mouth, and is said to preserve this width for a long distance. The Indians report that this stream rises in a range of hills on the north-west side of Great Bear Lake, but about its navigability I could learn nothing. There was an old Indian at Fort Good Hope who had been up to the head waters of this river several times; but, because he saw me taking an observation in daylight, and learned that I could see the stars at that time, he would give no information, saying: "A man who could see stars in daylight could just as easily see the whole river."

Fort Good Hope is built on the east side of the Mackenzie, two miles and a quarter above Hare Indian River, and two below the ramparts. It was originally about one hundred and twenty miles down the river from this point, but was subsequently moved up to Upper Manitou Island, whence it was swept by a flood in 1836. It was then built on its present site. The Hudson's Bay Company has quite a large establishment at this point, consisting of half a dozen houses and some stables. The Roman Catholic Church has a mission here, and their church is said to possess one of the best finished interiors in the country.

Two miles above the fort we enter what is known in the vicinity as the "Ramparts;" though in the more south-westerly part of the country it would be called the "Cañon." Here, for a distance of seven miles, the river runs between perpendicular and occasionally overhanging walls of rock. At the lower end they rise one hundred and fifty feet above the water, but their height decreases as we near the upper end, at which point they are not more than fifty or sixty feet. At the lower end the cañon is nearly a mile wide, but its walls gradually converge until, about three miles up, the width is not more than half a mile, and this continues to the upper end. Sir Alexander Mackenzie when passing through sounded at its upper end, and found three hundred feet of water, which accounts for the fact that, although the cañon is so narrow, the current is not perceptibly increased.

About a mile above the Ramparts there is a rapid when the water is low, but when I passed there was no sign of it. We paddled right over where the worst part is said to be, and noticed nothing but a current somewhat quickened, but not sufficiently so to prevent our ascent with ease. On the east side of the river the rapid is unsafe for small boats during low water, but about two thirds of the way across to the west shore the water is deep and safe. I was told that several travellers, while passing in boats, have tried without success to find bottom with long poles. The rapid is caused by a ledge of rock extending across the river, apparently the upper edge of the rock, through which the Ramparts have been worn. Over this ledge the river simply drops. The Hudson's Bay Company's steamer has not yet encountered any difficulty in passing up and down.

When on his way down the river, Sir Alexander Mackenzie met some Indians some distance above this place. After confidence had been established by means of presents, he prepared to start onward; and, although his newly made friends told him there was great danger ahead in the form of a rapid or cataract which would swallow him and his party without fail, he continued, they following and warning him of his danger. He advanced cautiously into the Ramparts but could hear or see nothing to verify their statements. At last, when through, they admitted that the only bad water to be encountered was now passed, but that behind the island, just below, was a bad spirit or monster, which would devour the whole party. Failing there, the next island below would surely reveal him. From these statements the two islands have received the names of Upper and Lower Manitou, respectively.

In the fall of 1887 a whale made its way up the river to the Ramparts, remaining there the whole season, and before the river froze over it was often seen blowing. At first the Indians were afraid, but they soon became accustomed to the sight, and shot at the whale whenever it approached the shore. In the spring its dead body was beached by the ice on the west shore seven or eight miles below Fort Good Hope, and the Indians used part of it for dog food. I enquired its dimensions of several who had seen it. They described it as about twice as long as one of their canoes and thicker through than their own height. This would mean a length of from twenty-five to twenty-eight feet. I have often heard it stated that all the channels of the Mackenzie delta are shallow, but the presence of this whale assures us that one of them at least is over six feet deep.

A short distance above the Ramparts a river flows into the Mackenzie on its west side. I saw it only across the river, but it appeared to be about two hundred yards wide at its mouth. All I could learn about it at the fort was that it came from far up in the mountains.

Above the Ramparts the Mackenzie suddenly expands to over a mile in width. The banks, as a rule, are much lower than they are below, while in some places swamps occur close to the stream, something never noticed below the Ramparts.

Twenty-one miles above Fort Good Hope, Beaver River joins on the west, but as I continued on the east side, I saw only its mouth, which appeared to be one hundred yards wide. An Indian with me said that it took its name from the number of beavers formerly found on it. This stream rises in the mountains, but does not seem to be of any importance.

Forty-eight miles from Fort Good Hope, Sans Sault Rapid is reached. This, like the rapid at the head of the Ramparts, is all on one side of the river, which is here a mile and a quarter wide. As I went up the west side, and the rapid was on the other, extending but little more than a third of the way across, I cannot say that I saw anything of it. I heard the roar plainly enough, but saw nothing except a swift current. It is caused by a ledge of rocks extending partially across the river. Capt. Bell reports deep water in the channel at the end of the ledge, and the steamer has no serious trouble in ascending. In very low water it is said that this rock is scarcely covered.

A ridge of hills here extends beyond the river from the Rocky Mountains, occasional glimpses of which can be caught from the water. Just east of the rapids above mentioned a ridge extends eastward from the river for some miles. The highest point in the end nearer the river was triangulated, and the height determined as one hundred and fifty-five feet above the water. To the north and east of this are several peaks, but they are scattered and isolated from each other. On the west side of the river the hills are some distance away. The rock of which these hills are composed is limestone, as far as I observed. I saw some specimens of clay iron stone, but not in place.

A mile above the rapids a river called Mountain River flows in from the west. It is from one hundred to one hundred and fifty yards wide, and shallow.

A mile above this again the Mackenzie turns sharply to the east from its southerly direction, and skirts the base of the mountains for six miles. Its course then curves a little to the south, when what might be termed a cañon is entered, in which the river flows for nine or ten miles. The river here averages a mile in width, and is walled on both sides by perpendicular limestone cliffs, rising from one to two hundred feet above the water. On the south side this wall terminates in what is locally known as Wolverine Rock, rising perpendicularly from the water to a height of about three hundred feet. The formation is limestone, the strata of which stand almost on edge, and the water has worn through them in several places, so that one can sail underneath. Above this point the mountains again approach the river for two or three miles, when they suddenly drop almost to the level of the plain. The banks are there clay and gravel, with an average height of from one hundred to one hundred and fifty feet.

Six and one half miles above Sans Sault Rapids Carcajou River empties its waters into the Mackenzie from the west. It is a large river, being not less than four hundred yards wide at its mouth. An Indian with me stated that this stream was very large and very long, the Indians having ascended it for great distances through the mountains. He pointed out the direction of the valley for some distance above the mouth, and it appeared to run parallel to the Mackenzie for a considerable space; then, turning sharply to the west, to enter the mountains. This river seems to be the largest tributary of the Mackenzie below the Liard.

On the evening of Saturday, 21st July, I met the Hudson's Bay Company's steamer "Wrigler" on her way down to Fort McPherson. She had already been down as far as Fort Good Hope, and had returned with the season's furs. Here I got the first news from the outside world since May in the previous year.

Opposite where I met the steamer is a large island in the river, which the officers of the boat and Mr. Camill, in charge of the district for the Hudson's Bay Company, named "Ogilvie's Island," requesting me to so mark it on my map, as henceforth it would be known by that name throughout the district.

Ten miles below Great Bear River a stream about one hundred yards wide comes in on the westerly side. I saw it only across the Mackenzie, and got no information concerning it.

Four hundred and forty-four miles from Fort McPherson brought us to Fort Norman, which is situated on the east bank of the Mackenzie just above the entrance of Great Bear River. This river is from two to three hundred yards wide at the mouth, with a moderate current, but a short distance up becomes shallow and the current increases. The color of the water is a beautiful greenish-blue, although,

when I passed, it was somewhat turbid. It is said by those who have been up on the lake that the water there is very clear.

Between Forts Good Hope and Norman the Mackenzie averages much over a mile in width, and islands are so numerous that there are few reaches of the river without them. Hence, the average breadth of actual waterway is probably not over a mile. I never measured the velocity of the current; but it is nowhere strong, and I estimate that it is never swifter than four miles per hour, except at a few points which will be noticed later on.

On the east side of the river, two miles below Fort Norman, a limestone ridge, known as "Bear Rock," rises one thousand five hundred feet above the water, and maintains this height for some distance northward from the Mackenzie.

After we had passed a point some miles below Sans Sault Rapid, we could occasionally see the main range of the Rocky Mountains. I tried to locate the most prominent peaks in sight by triangulation, but on account of continuous wet weather during the whole summer, I did not succeed as well as I wished, although I continued this work all the way up the river to within a few miles of Fort Simpson. The data thus collected, when placed on my map, will permit an approximate location of the main range for the future maps of the district. In most cases the angular altitudes of the peaks were noted, so that their heights and positions can both be given. At Fort Norman the mountains are not more than twenty miles distant, but just south of that point they turn away from the river, and are not visible for some distance up.

Above Fort Norman the eastern bank of the Mackenzie is generally high, and composed of clay. The current has undermined these banks in many places to such an extent that they are continually falling into the river. This is markedly the case from twenty to forty-five miles above the point named. The current here is very swift, running in many places as much as eight miles an hour for short distances in passing points.

In 1844 Fort Norman stood twenty-three miles above its present site on the west bank, but when that fort was built I could not learn. During the occupation of this site, one evening the occupants of the fort observed that the water in the river was falling very rapidly, yet retired to sleep, not suspecting any danger. Early in the morning they were roused by finding the water in their houses floating them out of bed. They escaped by means of boats, but all their cattle and other property were carried away. It was afterwards discovered that the fall in the water had been caused by an immense land slide damming the waters of the south branch of the Liard River; and the flood, by its release. The fort was then removed to its present site.

Just above the point where this incident occurred the river expands into what might be called a lake, only that it is filled with islands, and all the water-ways together probably do not amount to much more than a mile in breadth. This expansion is six miles long and four wide. Above this for six miles the current is very swift, the last mile and a half of it running fully eight miles per hour. In this portion the current washes the base of a high clay bank on the west side of the river and is continually undermining it, so that it is unsafe to either walk along the bank or sail close to it in a small boat.

Sixty-five miles, by the survey, above Fort Norman, a large river enters from the west. It is shallow at its mouth, as it is throughout its course, according to the reports of the Indians. The current, they say, is swift. They ascend it a long way in the winter to hunt, and descend in the spring on rafts. How far they go up I could not learn, their unit of distance being the unknown quantity of a day's travel, but they go much farther than on any other tributary of the lower river. This is marked on my manuscript map as "Daha-dined River." It was so called by Sir John Franklin, or, rather, the Indians in the vicinity gave him that as the name. I also obtained the name from some Indians who had travelled it, and they called it "Pecat-ah-zah." This translated means Gravel River, by which name it is known to all the white men in the vicinity, on account of its shallowness and numerous gravel bars.

Nine or ten miles above, on the same side of the river, another stream enters, apparently not more than a hundred yards wide at its mouth. I saw it from the opposite side of the river only, and heard nothing concerning it. A small stream enters the Mackenzie opposite this place, and up its valley, about two miles from the river, was seen a sharp peak rising one thousand five hundred feet above the water.

About thirty miles farther up on the west side a river discharges a large volume of clear, black water, which rushes bodily half way across the Mackenzie, and preserves its distinctive character for several miles before it mingles with the main stream. The name applied to this river by the people at Fort Wrigley was "La Rivière le Vieux Grand Lac." It is said to flow out of a lake of considerable extent, lying not far from the Mackenzie. Many peaks can be seen up its valley.

Fifteen miles above Gravel River the Mackenzie changes from over a mile in width, with numerous islands, to a stream often not more than half a mile wide, and without islands. This continues up to Fort Wrigley, except that four miles below the fort it is only three eighths of a mile wide for a distance of half a mile. The current here is swift, but not as rapid as at some points farther down stream.

Six hundred and twenty-four and a half miles from Fort McPherson brings us to Fort Wrigley. This post was formerly known as The Little Rapid, but has received the name it now bears in honor of the present Chief Commissioner of the Hudson's Bay Company. Just above the fort there is a swift rush of water over some limestone rock, which appears to extend across the river. On the west side two small islands confine a part of the stream in a funnel-like channel, which, being shallow, causes a slight rapid, and gives rise to the former name of the post. It is said that this channel is sometimes dry during low water in the winter months.

From La Rivière le Vieux Grand Lac to the fort a range of mountains runs parallel to the river on its east side. They are in many places so close to it that the foothills come down to the water, especially near Fort Wrigley, but just above this point they turn away eastward from the river. Above Little Rapid the river again widens to much over a mile, with numerous islands, and retains this width almost to Fort Simpson. The east bank is generally low and often swampy, but the west, although low for a short distance from the river, gradually rises to a height of seven or eight hundred feet. Fifty-eight miles above Fort Wrigley this hill terminates in a bold, high point, and the ridge turns off to the south-west, enclosing a deep, wide valley between it and the mountains, which here approach the river. This range continues south-eastward out of sight. The positions and heights of some of the peaks were determined by triangulation. One of them was found to rise two thousand eight hundred feet and another four thousand six hundred and seventy-five feet above the river.

Three miles and a half from Fort Wrigley, a stream known to the Indians as the "River Between Two Mountains" discharges into the Mackenzie from the east. Although one hundred and fifty yards wide, it is shallow.

Thirty-nine miles above this, on the same side, Willow Lake River enters. It is a quarter of a mile wide, deep, with a slack current. It is said to flow out of a lake of considerable extent not far from the Mackenzie.

Sixteen miles above this again, on the west side, a river flows in from the south west. I have seen its name spelled Na-hone, but it is spelled by the Rev. Father Petitot, Na-hauner. This stream, as seen from the opposite side of the river, seems about two hundred yards wide; but it is shallow and rough at the mouth, as was ascertained by the noise of its waters being plainly heard across the Mackenzie, here a mile wide. I could get no information as to what it was like for any distance above its mouth; but it pierces the range of mountains to the west, which here come close to the river. The valley thus formed can be seen extending south-westerly through the mountains for many miles.

No streams of any size enter the Mackenzie between this point and the confluence with the Liard. The banks in this stretch are alternately low and swampy, and moderately high, consisting of gravel and sand.

By the survey it is seven hundred and fifty-eight and one half miles from Fort McPherson to Fort Simpson. The latter fort is situate on an island just below the junction of the Mackenzie and Liard Rivers. Above the confluence both streams are apparently of the same size, each being a little under a mile wide. I have no data to calculate the discharge of either; but, if the discharge is in proportion to the area of the drainage basin, the discharge of the Mackenzie would be more than three times that of the Liard. From numerous reports, both verbal and written, it would appear that the Liard may be navigable for light draught stern-wheel steamers up to Fort Liard, which is one hundred and eighty miles above Fort Simpson in an air line. There are places which, in low water, would perhaps be difficult to get over; but they are probably not more frequent than on many other rivers which have been successfully navigated, as soon as the necessity for it has become apparent. Mr. McConnell, of the Geological Survey, came down this river in the autumn of 1887, when the water was probably low, and will be competent to speak conclusively on this subject.

A short distance above the confluence the Mackenzie narrows to an average width of little over half a mile, with a generally swift current. This continues for seventy-five and a half miles above Fort Simpson, and causes this part of the river to be called the "Line," from the fact that large boats cannot be rowed against the current, but have to be hauled by a line attached to them, and pulled by men on shore. This is the common mode of navigation on all the northern rivers where there are no steamers, as it is less laborious than rowing against a current.

On his way down the river, Sir Alexander Mackenzie sounded near the head of the Line, suspecting from the rate of the current that the water was shallow. On 1st July, 1789, he found fifty-four feet of water here; in a second trial some distance below his lead caught in the bottom; and the united efforts of eight men could not pull the canoe against the current far enough to liberate it. In the struggle the line parted and the lead was lost.

The banks of this part of the river are generally somewhat low, consisting of gravel and sand. A couple of small rivers flow in, but are of no importance. Four miles above the Line a stream called "Rivière la Pêche" joins from the south-west, and is from one hundred to a hundred and fifty yards wide. Some Indians I met near its mouth reported it as shallow and rapid a short distance up.

At the head of the Line the river widens from a little over half a mile to a mile and a half, and the banks become lower, rising but a few feet above low water. The current is slow, with almost dead water in the bays. The season of 1888 was unusually wet, and the water in the river and lakes correspondingly high; so much so, that the oldest residents in the district remember nothing like it. The following facts may be cited to corroborate this statement. A short distance above Rivière la Pêche there are large meadows where formerly great quantities of hay were cut for the cattle at Fort Simpson. Having looked for, but failed to find these meadows, I inquired as to their whereabouts of some Indians whom I met paddling around shooting along the west shore. They told me that I was then sailing over them. I sounded and found ten feet of water, on 4th September, a season of the year when it might be expected to be almost at its lowest summer level. At Lake Athabasca, a man born in the country and now sixty years of age, built himself a house near the Quatre Fourche, some years ago, at a spot where his past experience justified him in expecting never to be troubled by high water in the lake. But 1888 upset all his calculations, for the water in the lake rose so high that it occupied the lower flat of his house, and he had to camp out part of the season.

With the water at this height the flat shores above the Line were all submerged, sometimes for several hundred yards into the woods, so that I found it impossible to carry on the survey in the ordinary manner. I spent two days experimenting to find if I could not continue the accurate instrumental survey by some other method than that heretofore used, but failed. There are no hills in the vicinity of the river, so that a triangulation was impossible, nor could I find any spots on the shore where cutting trees would enable me to continue the micrometer survey, taking longer

sights than usual, and using of course a longer base rod. I was compelled above this point to abandon the instrumental survey and carry on a mere track survey, taking compass courses, and obtaining the distances from point to point by time and estimated rate of travel. I intended to resume the micrometer survey as soon as the height of the water permitted, expecting to find suitable conditions a short distance up. I had been led to expect that I would soon come to higher banks, but I found no dry bank outside the woods until I reached Little Lake, and there only for a short distance. I found the general state of the shores the same all the way to Great Slave Lake, and along it to the mouth of Great Slave River. I was compelled to continue the compass survey to that river, and up it several miles, before the banks were high enough to permit a continuous micrometer survey. Even then much of the instrumental survey was made in mud so soft that frequently one could not stand without sticks under his feet to prevent his sinking.

Before starting the compass survey I determined the latitude of the last micrometer station, and the error of my chronometer on local time, as well as I could with my instruments, intending to check my work as I went along by frequent latitude and time observations. But the cloudy weather prohibited this, and I got on the lake but one partial observation for time and none for latitude. I took some star transits for time while at Fort Resolution, but was unable to determine the chronometer rate during the interval; so that the observations are not of much value as a check on the distances estimated. There is therefore a break of two hundred and eighty-two miles in my instrumental survey between Forts McPherson and Chipewyan. If the longitudes assigned to Forts Simpson and Resolution on the maps are correct, the error of my compass survey can be discovered by comparing the difference of the longitudes given on the maps with that deduced from the survey.

The banks for the whole of this stretch are very low and swampy, the soil mostly sandy, and covered thickly with willows along the shore.

Twenty-six miles above the head of the Line Yellow Knife River enters the Mackenzie from the south, but as the country was all flooded it was impossible to form an idea of its size without ascending it some distance, which I had not time to do. It would appear, however, from the statements of the native with me, that this is the largest tributary of the Mackenzie between the Liard and Fort Providence.

Sixty-two miles from the head of the Line brings us to Little Lake, which is about twelve miles long, and ten or twelve miles wide, being merely an expansion of the river. The southern shores are flat and sandy; but, notwithstanding this, the water when I passed was deep a short distance out. What it is in an ordinary stage of water, I did not learn. Sir Alexander Mackenzie reports making frequent soundings in the lake during the last days of June, 1789. In the lake he found eighteen to thirty-six feet of water, and in the river below the lake, to the head of the Line, from twenty-four to thirty-six feet.

Above Little Lake, as far as Fort Providence, the river is wide and islands are numerous. Until I passed this point I followed the north shore, and could nowhere see across, so I can only guess at the width; but it cannot be less than two miles, and is probably three, or more.

Fort Providence is on the north bank of the river, twenty-four miles above Little Lake. At the fort is the usual collection of buildings found at a Hudson's Bay Company's post. The Roman Catholic Church has a mission here. For a few miles above and below the country on the north bank is less swampy than that just passed, the banks being gravelly and rising fifteen to twenty-five feet above the water. Above the post is a slight rapid, which on the Lewes or most other rivers in our territory would not be noticed, being nothing more than a slight acceleration of the current over a gravel bar. When passing down, Sir Alexander Mackenzie sounded there, and found twenty-one feet of water. Opposite the fort is an island a mile or more long, and distant about half a mile from the north shore. Between it and the north shore the river is shallow, the main channel being on the south side of the island. South of this island is another, quite as far from the first as that is

from the north shore, but how far this island is from the south shore I have no idea, nor could anyone at the post tell me definitely.

A little over four miles above the fort the channel is free from islands for some distance, the average width being about a mile and a half. Seventeen miles above Fort Providence the river expands into a small lake, named Beaver Lake, which is from two to four miles wide and eight long. I was informed that quite a large stream, called Beaver River, flows into this lake on its south side. Above this the channel, although continuing nearly as wide as Beaver Lake, is pretty well filled with islands.

Forty-six miles from Fort Providence we enter Great Slave Lake.

*Exploratory Survey from Mackenzie River through Great Slave Lake and River to Fort Chipewyan, on Lake Athabasca.*

The shore of Great Slave Lake, between Mackenzie and Great Slave Rivers, is low and flat, nowhere in that distance rising more than twenty or twenty-five feet above the water. Most of it is so low that it was submerged when I passed. The soil seen was all more or less sandy, until we reached the vicinity of the delta of Great Slave River, at which point it is a rich, black, alluvial deposit.

About eighty-one miles from Fort Providence, Hay River enters the lake. Around the mouth of this stream the soil is sandy, and the vegetation not so abundant as in many other places, but some Indians have located here, and built themselves houses. They generally remain at this point all winter, subsisting on fish and a few potatoes which they raise. One old man seemed more provident than the majority of Indians. Some years ago he got a cow from some of the Hudson's Bay Company's people, and has since so managed that he is now the owner of seven or eight head, evincing a great anxiety to increase the number. His example will go far to encourage others to do likewise. There is no reason why the Indians in this district should not sustain themselves, partially at least, by cattle-raising, as there is fair pasturage along the lake, and meadows must be numerous in the flats away from the shore.

Hay River is from one hundred to one hundred and fifty yards wide, but just at the mouth is a large island, which makes it nearly half a mile across. Some eighty or one hundred miles from the mouth is a fall about eighty feet high. Mr. McConnell visited this point, and can give a fuller and more correct description of it than I can, as my information was derived from a few Indians whom I imperfectly understood. Hay River is only forty or fifty miles from the Peace at Vermilion, and the Indians at the mouth told me that they often ascend it and cross over to that point. They say that between the falls and the "Portage," as it is called, there are three bad rapids; but above them, for a long distance, there is comparatively good water.

One hundred and eight miles from Fort Providence we reach Buffalo River. This stream is about one hundred yards wide at its mouth, with an easy current, indicating a comparatively small volume of water. Around its mouth is a prairie, some forty or fifty acres in extent, on which the Indians have built a house, and erected racks for fish drying.

Nine miles beyond Buffalo River the shore line is much indented by shallow bays of small area, bordered by low banks of limestone. In ordinary seasons it is probable that there is little, if any, water in these bays, as there were only a few feet in most of them when we sailed through. The limestone formation is exposed at frequent intervals along the shore for eighteen or twenty miles. At one point it was observed to be so strongly bituminous that a fire built on the rock caused it to emit strong fumes of petroleum.

About twelve miles before reaching Fort Resolution we pass Buffalo Creek, a small river which flows parallel to the Great Slave for more than fifty miles. Travellers to Fort Smith with canoes often follow this stream, as it is much shorter than the crooked and winding Great Slave River.



One hundred and sixty-seven miles from Fort Providence, or one thousand and eighty-three from Fort McPherson, brings us to Fort Resolution, on the south shore of Great Slave Lake, near the mouth of Great Slave River. Here the Hudson's Bay Company has the usual trading-station buildings, and the Anglican Church Missionary Society has a small mission. The Roman Catholic Church also has a mission on an island in the lake about two miles from the fort.

At the fort I took magnetic observations as well as star transits to determine the error of my chronometer. I then resumed the micrometer survey, hoping to carry it on without interruption to Fort Chipewyan, connecting there with my survey of the Athabasca River. But, after working seven miles from the fort, I found the shore around the delta of Great Slave River so low and muddy that I was forced to desist, and I had to go up the stream some miles before I found ground dry enough to land on. In this piece I was unable to get even compass bearings, as the channels of the delta are very narrow and crooked. When I reached a point probably seven or eight miles from the lake I resumed the micrometer survey, this time to carry it through without a break to my survey station at Fort Chipewyan.

From the lake, for more than one hundred and sixty miles, the country along Great Slave River is low, flat, and somewhat swampy, the banks seldom rising more than a few feet above the water. The river throughout this stretch is very crooked; so that the first one hundred and fifty miles from the lake is nearly three times the air-line distance. Its average width is about half a mile, with a current of from three and a half to four miles per hour, and the river everywhere seemed deep. Afterwards the banks become higher and the soil lighter, and many scarped banks of gravel from thirty to fifty feet high were seen.

A few miles below Fort Smith the banks rise, and the soil is gravelly, with some poplar timber on it. Seven miles below the fort occurs the only rock seen between here and the lake—a very small exposure of limestone. As we approach the fort the banks continue to rise, until at that point a height of one hundred and sixty feet is reached. At the fort the drift, composed of clay, gravel, and sand, lies on top of granite rock, which, for sixteen miles up, causes many rapids in the river. This is the head of the run of the steamer "Wrigley," the distance from Fort McPherson being twelve hundred and seventy three miles.

Fort Smith is at the lower end of a cart road, along the west side of the river, over which the outfits for the posts in the Mackenzie are hauled from the head to the foot of the rapids mentioned above. The Hudson's Bay Company have a few small buildings, and the Roman Catholic Church has a small mission. The surrounding country is sandy and knolly with small and poor timber.

The survey could not be carried up the river on account of the numerous bad rapids, and was therefore made along the top of the bank from point to point. At every station the angles of elevation or depression of the back and fore sights were noted, and from these the differences in elevation were calculated, and the fall of the rapids determined. The distance from Fort Smith to the landing, about a mile above the head of the rapids, is fourteen and one half miles by the survey line; but as this cuts off two large bends in the river, it is probably two or three miles shorter than the course of the stream. This fourteen and a half miles follows the main windings of the valley, and is probably slightly longer than the cart road, which cuts across country from one landing to the other. From where my survey left the river to where it reached it again, the rise is two hundred and forty-seven feet, of which about two hundred and forty is in the rapids. This seems large, but when we consider the fact that this portion of the river for more than sixteen miles is nearly all rapids, and that the fall is only fifteen feet to the mile, the descent does not appear so great.

All the rock seen in the rapids was granite, with the exception of a small exposure, close to the water's edge, about half way up the rapids, which seemed to be calcareous sandstone, containing many small masses of gypsum.

From the rapids up to Lake Athabasca, east of the river, the surface is much broken by granite knolls, between which lie small swampy flats. No streams of

importance enter. On the west side, the country is not so much broken, nor are there so many rock exposures. There are a few small outcrops of limestone, much resembling those seen on Peace River at Peace Point, of which they are probably an extension. It appears to me that the river, from the junction with the Peace to the rapids, follows the line of demarcation between the older granitic and newer sedimentary rocks, as nearly all the rock seen on the west side is sedimentary, while on the east no sedimentary rock is noticed. As we approached Peace River some exposures of granitic rock were seen on the west side. But it is low, and covered with drift, nowhere standing more than a few feet above the water, while on the east side the same rock often rises upwards of eighty feet.

Seventy miles above the head of the portage we leave the main river, which above this point is known as the Peace, and follow a small channel locally known as the River de Rocher. Many people call the main river the Peace all the way down to the lake. Often, when speaking of Great Slave River, I was not understood, and had to explain what river I meant. From above the rapids to where we left the main river, it is from a quarter to half a mile wide. There are one or two slight rapids, which, however, are not sufficient to interfere with its navigation by the steamer which the Hudson's Bay Company have on it. The rate of the current is not more than three and a half miles per hour.

River de Rocher does not average more than one hundred and fifty yards wide, and the current is easy. There is one small rapid ten miles above Peace River; but it is not bad enough to prevent the descent of canoes or seriously hinder the ascent of the steamer. Thirty-eight miles on this channel, after leaving Peace River, brings us to Lake Athabasca, and a little over three miles more to Fort Chipewyan.

On the evening of 19th October, I had completed the survey almost to Lake Athabasca, and was confident of reaching the fort with it during the next day, when the ice which had formed along the shores of the lake was blown out of the bays and carried down the river by the current in such quantities that evening that I became alarmed at the prospect of being closed in before morning, and therefore at once started for the lake. When I arrived there about nine o'clock there was a furious snow storm raging, so I had to remain on the shore until the next morning, when I proceeded to the fort. The weather moderated in a day or two, and I completed the survey on 24th October.

In connection with my survey of the Athabasca and Peace Rivers in 1884 I have already reported on the country around Fort Chipewyan and that end of the lake. As it has been visited by so many others, I need not here say more than that the principal features of the surface are granite knolls and swamps, with some ponds. The timber is pine, spruce, tamarac, and poplar.

#### NAVIGABILITY OF THE VARIOUS STREAMS AND LAKES.

The Hudson's Bay Company's steamer "Grahame" traverses the waters of Peace and Athabasca Rivers, the former from the falls to the rapid at Fort Smith, and the latter up to Fort McMurray. The distance from Fort Chipewyan to the post at the falls on Peace River is two hundred and twenty-two miles. Mr. McDougall, in charge of the Athabasca district for the Hudson's Bay Company, gave me the following notes from the log of the steamer "Grahame" which is capable of steaming about ten miles per hour in still water. In 1888, during the first trip up, the water was very high, the current strong, and much drift wood floating in the river; the sailing time from Chipewyan to the falls on Peace River was sixty-five hours and five minutes; return, twenty-two hours. In 1887, with much lower water, the time going up was forty-nine hours and twenty minutes.

The distance from Fort Chipewyan to the head of Fort Smith portage is one hundred and two and one half miles. In 1887 the steamer's time from Fort Chipewyan to the landing at the head of the rapids was eight hours and thirty-five minutes; return, eighteen hours and forty minutes. In 1888 the time down was nine hours and thirty minutes, and the return fifteen hours and fifty-five minutes. Mr. McDougall

has thoroughly sounded this part of the river and assigns it an average depth of twenty-seven feet. At the landing at the head of the rapids the depth in midstream is one hundred and fourteen feet.

The distance across the lake and up Athabasca River from Fort Chipewyan to Fort McMurray is one hundred and ninety-four miles. In 1887 the steamer's time for this distance was thirty-two hours and twenty minutes going up, and nineteen hours and forty-four minutes returning. In 1888 the time was thirty-three hours and twenty-five minutes up, and seventeen hours down.

I asked Captain Bell, of the steamer "Wrigley," for a statement of the time his vessel took between the various points along the Mackenzie. Just then he had not leisure to take the information from his log, and I had no opportunity afterwards of getting it from him, both of us being too busy to attend to the matter during the short time we were together at Fort Simpson. He told me that the steamer could make ten miles per hour in still water, and that her average speed up stream was six. But it must be borne in mind that in ascending they take advantage of all the easy water possible by keeping close to the shore.

Excepting a short distance at the head of Mackenzie River, where it is doubtful, it is certain that vessels drawing at least seven or eight feet of water can navigate from the delta of the Mackenzie to the rapids on Great Slave River, a distance of one thousand two hundred and seventy-three miles. If the Mackenzie delta also allows that draught, we have about one thousand three hundred and forty miles of navigable water from the rapids to the Arctic Ocean.

Some notes as to the time during which this great stretch is open to navigation will serve both commercial and meteorological purposes. At all the Hudson's Bay Company's posts a journal is kept of all proceedings at the post, and of every event of note in the vicinity. From these journals can be ascertained the dates of the opening and closing of the river at the respective posts ever since they were built. From the officers at Forts Norman, Simpson, and McMurray, I obtained data which I here submit. The date on which the ice broke up is given in each case, but, as a rule, the river was not clear of running ice until nearly a week later.

#### FORT NORMAN—LATITUDE ABOUT 65°.

Year.	Ice Broke Up.	First Snow.	First Ice Formed.	River Closed.
1872.....	Not given.	September 28th.	October 7th.	November 8th.
1873.....	May 17th.	do 28th.	do 21st.	do 12th.
1874.....	do 25th.	October 15th.	November 2nd.	do 18th.
1875.....	do 24th.	Not given.	October 23rd.	do 9th.
1876.....	do 19th.	October 10th.	do 13th.	do 9th.
1877.....	do 12th.	September 25th.	do 18th.	Not given.
1878.....	Not given.	do 28th.	do 22nd.	November 7th.
1879.....	May 9th.	October 3rd.	do 20th.	do 2nd.
1880.....	do 22nd.	do 7th.	do 22nd.	do 12th.
1881.....	Not given.	do 2nd.	do 7th.	do 12th.
1882.....	May 14th.	do 9th.	do 14th.	do 14th.
1883.....	do 11th.*	do 9th.	do 24th.	do 10th.
1884.....	do 28th.	Rest of record lost.		
1885.....	No record.	No record.	No record.	No record.
1886.....	do	do	October 18th.	November 13th.
1887.....	May 24th.	September 23rd.	do 5th.	do 8th.
1888.....	do 19th.			

\* River was not clear of ice this year until May 28th.

In the record given below—for that part of the Mackenzie below the mouth of the Liard—it must be borne in mind that the Liard, being a mountain stream and rising in a somewhat warmer climate, opens before the Mackenzie River, which has also the disadvantage of having a large body of still water near at hand in Great Slave Lake.

## FORT SIMPSON—LATITUDE 61° 52' N.

Year.	Ice Broke Up.	First Drift Ice.	River Closed.
1876.....	May 14th.	November 4th.	November 17th.
1877.....	do 8th.	do 1st.	do 28th.
1878.....	do 8th.	October 16th.	do 26th.
1879.....	do 3rd.	November 12th.	do 20th.
1880.....	do 7th.	do 2nd.	do 26th.
1881.....	do 13th.	October 12th.	do 18th.
1882.....	do 7th.	November 1st.	do 30th.
1883.....	do 1st.	October 28th.*	do 20th.
1884.....	do 12th.	do 11th.	do 18th.
1885.....	do 2nd.	do 28th.	do 20th.
1886.....	do 13th.	do 30th.	do 25th.

\* The first drift ice in the Mackenzie this year was seen November 1st.

The dates of the breaking up of the ice in the Mackenzie above the Liard for the same years are as follows:—

1876.....	Not given.	1882.....	May 20th.
1877.....	May 19th.	1883.....	do 5th.
1878.....	do 17th.	1884.....	do 14th.
1879.....	do 19th.	1885.....	do 7th.
1880.....	do 19th.	1886.....	do 27th.
1881.....	do 19th.		

The river is always open some time before the lake. In the latter the ice floats around for some weeks before it is sufficiently broken up to pass down the river. In 1888 it was well on in July before the lake was clear enough to enable the steamer to proceed to Fort Smith, but that was an unusually late season. As a rule, I believe, navigation on the lake opens in the last days of June. At Fort McPherson on Peel River, the ice does not generally leave until the 1st of June. On Lake Athabasca the ice goes a little earlier than on Great Slave Lake; but this does not affect the question of the navigability of the Mackenzie, which cannot be reached until Great Slave Lake is clear.

At Fort McMurray, situated at the foot of a long series of rapids on the Athabasca River, I obtained the following notes of the breaking up, drifting, and setting of the ice. This point is in about latitude 56° 40'.

Year.	Ice Broke Up.	First Drifting Ice.	Ice Set, River Closed.
1878.....	April 18th.	October 27th.	No record.
1879.....	No record.	do 26th.	November 1st.
1880.....	May 2nd.	November 14th.	No record.
1881.....	April 21st.	October 14th.*	November 12th.
1882.....	do 24th.	November 1st.	do 8th.
1883.....	do 25th.	October 30th.	do 10th.
1884.....	do 27th.	do 18th.	October 28th.
1885.....	do 9th.	do 23rd.*	November 13th.
1886.....	do 16th.	November 4th.	do 14th.
1887.....	do 27th.	October 22nd.	October 24th.
1888.....	May 4th.	November 3rd.	November 9th.

\* In these years the river became clear of ice for some time, after which drift ice again appeared, until finally the ice set and closed the river.

During the last two years the Hudson's Bay Company has had another steamer, the "Athabasca," plying on the Upper Athabasca River, between Little Slave River

and Grand Rapids. Both this steamer and the "Grahame," on the lower river, are flat bottomed stern-wheelers, drawing, when loaded, not more than two and a half to three feet of water. They can each carry about one hundred and forty tons.

I subjoin a table of distances between Fort McPherson, on Peel River, and Fort Chipewyan. The figures given are corrected for all known errors; but that part of the survey which was made by compass and estimated distances, I have no means of correcting at present.

TABLE OF DISTANCES FROM FORT MCPHERSON.

	Miles.
Mackenzie River proper.....	32·1
Red River.....	60·1
A large river entering on the east side, name unknown....	120·5
Loon River.....	250·8
Hare Indian River.....	272·4
Fort Good Hope.....	274·7
Ramparts.....	283·6
Beaver River.....	295·7
Sans Sault Rapids.....	322·7
Mountain River.....	323·3
Carcajou River.....	328·0
Great Bear River.....	444·0
Fort Norman.....	444·2
Gravel River.....	509·3
Riv. le Vieux Grand Lac.....	550·5
Fort Wrigley.....	624·5
River between Two Mountains.....	628·0
Willow Lake River.....	667·0
Ne-hauner River.....	683·3
Fort Simpson.....	758·5
Head of Line.....	829·5
Yellow Knife River.....	855·6
Little Lake.....	892·0
Fort Providence.....	916·0
Great Slave Lake.....	962·0
Hay River.....	997·0
Buffalo River.....	1,024·0
Buffalo Creek.....	1,071·0
Fort Resolution.....	1,083·0
Fort Smith.....	1,273·5
Head of Rapids.....	1,287·5
Peace River.....	1,358·9
Fort Chipewyan.....	1,390·0

The upper Peace River is navigable for steamers drawing three or four feet of water; and, with a little improvement at two points, a draught of five to six feet could be utilized. This upper Peace River affords a navigable stretch of five hundred and fifty-seven miles, which, with two hundred and twenty-two miles on lower Peace River, and two hundred on Lake Athabasca, and, say, two hundred on the lower Athabasca, together with the distance given in the above table, gives us two thousand five hundred and sixty-nine miles of navigable water.

From our present knowledge, meagre as it is, I think we may assume that Great Slave Lake affords us at least five hundred miles more, considering its length and its many deep bays. To this we may add two hundred and forty miles on the Liard, and at least sixty on Peel River, thus making a grand total of three thousand three hundred and sixty-nine miles of water in the Mackenzie basin, all navigable, except for eighteen miles, at but two points, one a rapid two miles long on Peace River,

and the other, the Sixteen Mile Rapid on Great Slave River. A thorough knowledge of the two great lakes with all their tributary streams would probably increase this vast length of navigable water by several hundred miles. This does not take into account the Mackenzie delta and the sea near its mouth, of the navigability of which nothing very definite is known at present.

During July, August, and part of September, I kept a record of the rise and fall of the water in the river, during the hours when I was not travelling. In the evening, when camp was made, a mark was set at the level of the water, and in the morning, the rise or fall was noted. Of course I could not observe the change during the day hours when I was moving. My object was to find approximately when the water fell to its lowest stage, as well as the rate of fall. But, owing to the very wet season, the rate thus determined does not indicate the variation of the water in ordinary seasons. On the lake I kept no record of the rise or fall as the observation would have been difficult, owing to the surf continually beating on the shore. Such a record would be of very little utility, as the depth changes with the direction of the wind, the water being often several feet higher on the shore upon which the wind is blowing than on the other. I found the high water not only a great hindrance to the progress of the work, but also the cause of much additional hardship.

#### TIMBER RESOURCES.

On the lower Mackenzie, as on the Lewes, the timber large enough for commercial or manufacturing purposes is all in the river valley. On the plains above, the trees are small and unfit for anything except for fuel or the few uses to which trees six or eight inches in diameter can be applied. There is some fine material for lumber on some of the islands in the river, but many are bare with the exception of a few willows. It may, in short, be said that, away from the immediate vicinity of the river, there is no timber of value in the sense in which the term is used in the east, until we get above Fort Wrigley, and then in some places the banks are low, flat, and swampy, with trees much larger than those on the higher lands, many of them being fit to make fairly good lumber. On the flats between Fort Simpson and Great Slave Lake as well as on those adjoining the lake there is also much forest that would yield a large amount of good sized spruce and poplar.

The level country surrounding the lower half of Great Slave River is all well timbered with fine large spruce, equalling in this the lower Athabasca and Peace Rivers, and I think, when the time comes, that here will be found this district's principal supply of lumber. On the high, light soil around Fort Smith, the trees are small and generally of no value except for fuel. Along the river, between the rapids and Lake Athabasca, there are many small areas of flat, swampy ground which would supply some very fair timber.

It may be said generally of the lower Mackenzie that the timber along it is only sufficient to supply the needs of the immediate vicinity. On the upper river the surplus is not sufficient, and the market not convenient enough to justify manufacturing, until existing conditions are greatly altered.

The varieties of trees along the lower part of the river are few, spruce, with a few small tamarac, some small birch, and a few poplar, constituting the bulk of the forest. The spruce far outnumber all the rest. On some of the islands there is much shrubbery, willows and alders growing in profusion in the swampy places; but, in general, the undergrowth is stunted and thin, especially on the uplands.

#### AGRICULTURAL CAPABILITIES.

Everywhere the Mackenzie basin is quite as capable, so far as quality of soil is concerned, of supporting an agricultural population, as the greater part of the Provinces of Ontario and Quebec. The soil as seen from the river is generally good; and the probability is that it continues so at least as far back from the stream as the woods extend. This extent is said to vary from twenty to forty miles on the east side, where no stream flows in, but, where there are streams, the distance is much greater as the timber follows the valleys. Beyond the fringe of timber we come to

the so-called barren lands, on which nothing but mosses and lichens grow, and which, except as the pasturage of the musk ox and a few other animals, are practically useless, so far as known at present. On the west side of the river the woods extend to the timber line on the mountains.

Assuming the limits to be as above, the area of the fertile soil can readily be found. Speaking only of that portion of the Mackenzie basin extending from Athabasca Lake to the Arctic Ocean, we have a strip of land nine hundred and forty miles long and something over sixty wide. This gives in round numbers sixty thousand square miles of land, the agricultural capabilities of which we may reasonably discuss. I think the above area is less than that actually wooded, but on the west side much of the surface is probably at such an elevation, being near the mountains, as to be outside the limits of our discussion. Theoretically the points involved are the prevalent temperatures during the growing months, the period of vegetation, and the duration of sunshine.

I do not know of any regular record of temperature having been kept at Fort McPherson, the most northerly point at which any one is permanently settled in the district. The only information on this point which I have is my own record for the last ten days of June while I was camped in the valley near the fort. The lowest temperature during that period was  $37^{\circ} \cdot 3$  F. on the 20th, and the mean minimum from the 20th to the 30th was  $43^{\circ} \cdot 3$  F. The highest observed temperature during the same period was  $74^{\circ}$  F. at 1.30 P.M. on June 21st, and the mean temperature at that hour for the ten days was  $62^{\circ}$  F. The lowest of these temperatures would not injure vegetation. The mean minimum for the whole month would be below this, probably two or three degrees, but even that would not arrest vegetable growth. When, in connection with the temperature, we consider the number of hours of sunshine during June and July, it seems evident that Fort McPherson has all the essentials for the successful cultivation of most cereals and vegetables. At this northern point refraction extends the time during which the sun does not set, so that there are twenty-four hours sunshine each day from about June 1st to July 15th. On May 1st the sun is up for seventeen and one half hours, and during August the hours of sunlight vary from nineteen on the 1st to fifteen on the 31st. The total hours of sun are seven hundred and six in May; seven hundred and twenty in June; six hundred and eighty-four in July; and five hundred and twenty-seven in August; in all two thousand six hundred and thirty-seven hours of sun out of the total, day and night, of two thousand nine hundred and fifty-two in the four months. As twilight continues while the sun is less than eighteen degrees below the horizon there is actually no darkness during this period. When the temperature is suitable, vegetation under these conditions thrives to an almost incredible degree, as the following shows. When I arrived at Fort McPherson on June 20th the new buds on the trees were just perceptible, and on the evening of the 22nd the trees were almost fully in leaf.

The mean minimum temperature for the month of July was  $45^{\circ} \cdot 4$  F. The mean temperature for 1.30 p.m. was  $64^{\circ} \cdot 7$  F., but on two occasions the thermometer went to  $78^{\circ}$  in the shade, and ten times to  $70^{\circ}$ . These temperatures were noted along the river, at different points of course, although during the greater part of the month my latitude did not change very much.

This combination of favorable temperature and long hours of sunlight promises well for vegetable growth, but there are interfering causes. Unfortunately, snow storms are apt to occur at any time in the year at Fort McPherson. On July 2nd, five inches of snow fell and the thermometer went down to  $25^{\circ}$  ( $7^{\circ}$  below freezing point), yet, strange to say, the frost did not appear to hurt anything. A north-east wind, continuing for a day or more, lowers the temperature in a few hours from pleasant summer heat to what reminds one of the approach of winter.

As far as I could learn, no attempt at cultivating cereals or roots has been made at Fort McPherson. But at Fort Good Hope some of the people grow potatoes and other garden produce; and, as the difference of latitude is not much over a degree, the same things ought to grow nearly as well at Fort McPherson. The potatoes grown at Fort Good Hope are small, averaging about the size of large hens' eggs.

Those which I tasted were bad, as if they had been frozen; but they were of the previous season's growth, and it was then the middle of July. Even in Ontario potatoes of that age are not very palatable. This tuber appears to have always vitality enough to increase, as at Fort Good Hope they have had no change of seed for several years. This tends to show that the frosts are not very severe during the time the potatoes are growing and ripening. When I passed, the onions, lettuce, and other things planted in the gardens were pretty well advanced, the onion stalks being about as large as pencils. No cereals had been sown, but I think barley would succeed fairly well. I am not aware of any continuous record of temperature at Fort Good Hope; so I cannot say whether the climate at that place is suitable for the growth of plants during June, July, and August. While I was there the days were pleasant and warm and the nights not unpleasantly cool. Nor, if we omit the 2nd of July, when snow fell, did I note anywhere any temperature below freezing during July and August.

It may be said that my observations extended over too great a range of latitude to be of any value in indicating the temperature at any period or any place, as, while they were being taken, we were constantly moving south. This is true. But it must be remembered that in moving south we were leaving the area of constant sunlight and getting to where night has a cooling effect, so that the objection has not the same weight it would otherwise have.

The statement given below of the duration of sunlight in the months of May, June, July, and August, serves to show that a difference in latitude has not the same effect in changing the summer temperatures of places in high latitudes as it has in more southerly localities. Unfortunately, the records at posts in the district are too few and meagre to either confirm or disprove this theory, and to use the records of such places as Fort Franklin, on Great Bear Lake, and Fort Rae, on Great Slave Lake, is hardly fair. These points are over three hundred miles apart in an air line, and the temperature at either or both may be influenced by the local conformation of the ground, or other unknown causes. However, taking the records at these places, we have the following comparison:—

Mean Temperature during	Fort Franklin, lat. 65° 12'	Fort Rae, lat. 62° 40'
May.....	35° ·2 Fah.	27° ·7 Fah.
June.....	51° ·4	51° ·4
July.....	52° ·0	61° ·2
August.....	50° ·6	56° ·5

The Fort Franklin data are given in Professor Loomis' *Meteorology*, published in 1875. He gives as his authority Dove's tables in the report of the British Association for 1847. Who the observer was is not stated, but it was probably Franklin. The Fort Rae statistics were furnished by Mr. Carpmael to the Senate Committee appointed to inquire into the resources of the Mackenzie basin, and cover the same months as those given for Fort Franklin. These statistics, as far as they go, confirm the theory, for the extremes at Fort Franklin differ 16° ·8, while at Fort Rae the difference is 33° ·5, and the monthly differences at the former place are much less than at the latter.



I have computed the following table which shows comprehensively the different durations of sunlight for the latitudes of Ottawa and Forts Chipewyan, Simpson, Good Hope, and McPherson:—

	Ottawa.	Chipewyan.	Simpson.	Good Hope.	McPherson.
Latitude.....	45° 26'	58° 43'	61° 52'	66° 16'	67° 26'
	H. M.	H. M.	H. M.	H. M.	H. M.
Hours sunlight, May 1.....	14 08	15 34	16 05	17 06	17 30
do June 1.....	15 16	17 36	18 39	21 04	24 00
do do 21.....	15 30	18 44	19 14	22 48	24 00
do July 1.....	15 24	18 36	19 02	22 04	24 00
do August 1.....	14 32	16 16	16 56	18 16	19 24
do do 31.....	13 08	13 52	14 08	14 36	14 44
	HOURS.	HOURS.	HOURS.	HOURS.	HOURS.
Hours sunlight in May.....	456	514	538	592	706
do June.....	462	549	570	662	720
do July.....	464	530	558	625	684
do August.....	423	467	481	519	527
Totals.....	1,805	2,060	2,147	2,398	2,637

The number of hours of sunlight in each month has been obtained from the mean of the numbers at the beginning and ending of the month. This does not give a strictly correct result, as the sun's declination, on which the length of the day depends, does not change uniformly, the daily change in June, when the sun has attained its greatest declination, being small as compared with that in September when the sun is near the equator. Were the light of each day in the period separately computed, the totals would show even more difference in favor of the north. In computing the above table, refraction has not been taken into account, except in the case of Fort McPherson. Allowance for refraction would increase the duration of sunlight at all the other places; but much more in the north than in the south. As the table now stands it assigns to Fort McPherson eight hundred and thirty-two hours, or thirty-four and two thirds days, more sunlight than Ottawa during a total period of two thousand five hundred and fifty-two hours. A better mode of comparison is to reduce the number of hours of sunlight at each place to days. It stands thus: Ottawa, seventy-five days, five hours; Fort Chipewyan, eighty-five days, twenty hours; Fort Simpson, eighty-nine days, eleven hours; Fort Good Hope, ninety-nine days, twenty-two hours; Fort McPherson, one hundred and nine days, twenty-one hours, and this out of a total of one hundred and twenty-three days.

At Fort Norman the Hudson's Bay Company had a garden planted with turnips, potatoes, and other garden produce. I was at that point during the last days of July, at which time potato vines were from six to ten inches long, and did not promise a good yield. The Roman Catholic Mission had two patches, together about an acre in extent, planted with potatoes. The soil here was much better than in the first patch, being a warm clay loam, while in the other it was nearly all decaying vegetable matter, commonly called "muck." The mission potatoes were much stronger in the vines than the Hudson's Bay Company's, and, at that time, nearly covered the ground. The Anglican missionary had planted a small piece of ground near the river on a sheltered bench below the top of the bank and facing the south. Here the growth was much stronger than at either of the other places. Some barley had been sown in it and was well grown, the stalks averaging from two to two and a half feet high, and the heads being long and just beginning to fill. The growth of grass on this flat is luxuriant, and nettles grow as strong and large as any I have seen elsewhere. Near the

edge of the woods wild vetches grow as long and vigorous as they do near Edmonton. Everyone complained of the cold, wet weather which prevailed during the summer and much retarded vegetation. The Roman Catholic missionary, in charge of the mission here, told me that in twenty years' residence at the place he did not recollect such a cool, damp, cloudy summer.

At Fort Wrigley some slight attempts had been made at cultivation, but I do not consider them a fair test of the capabilities of the place. When I was there, on 15th August, the people were gathering blueberries, then fully ripe and as large and well flavoured as they are in Ontario. Ripe strawberries were found on 9th August ninety miles below this, and a few raspberries soon afterwards. Above Fort Wrigley wild gooseberries and both red and black currants were found in abundance, some of the small islands being literally covered with the bushes. The gooseberries were large and well flavored, and the currants would compare favourably with the same fruit as cultivated in the vicinity of Ottawa, the black currants being especially large and mellow. This was in the middle of August, in latitude 63°.

At Fort Simpson the Hudson's Bay Company has a large plot of ground planted with potatoes, turnips, onions, and other garden produce, such as is generally grown without artificial means in Ontario. On August 24th when I visited this place the growing vegetables looked almost as good as the same kinds seen on the Ottawa market at the same date. Lettuce particularly was very large and fine. There was also a large area of barley which looked well and promised an abundant return if allowed to ripen. The grain was then full and plump and just beginning to harden; but fears were entertained that a frost might come and spoil it. The people there claimed that the prevailing cool, cloudy weather had retarded its growth, as otherwise it would then be out of danger from frost. This cereal has been grown with success at Fort Simpson for many years. I understood that wheat had been tried, but with indifferent success. The garden altogether presented an appearance hardly to be expected at a point eleven hundred and fifty miles farther north than Ottawa. It is situated on an island in the river, and the presence of the large body of water may moderate the climate and account for the fine appearance of the garden. Whether the same favourable result can be attained a mile or more away from the river can only be decided by trial. I am strongly of the opinion that it cannot.

On the high river bank below Fort Providence wild gooseberries and currants were very plentiful, though on the 8th of September they were somewhat over ripe.

At Fort Providence the usual garden produce is grown every year and generally turns out well. Barley is also grown with success; but in 1888 it was, as everywhere else in the valley, much retarded by cool weather. Up to my departure from the post, the lowest temperature, exclusive of 2nd July, was 31°·8 on August 29th. The mean minimum for the month of August was 43°. When I was at Fort Providence the barley was beginning to change color, and, unless a very severe frost came soon after, would ripen. Wheat has been grown here for many years by the Hudson's Bay Company, generally being fairly ripe before it is touched by frost, and sometimes escaping altogether. The wheat is ground in a small hand mill, and the flour used in the ordinary way by the people of the fort. While there I ground a few pounds of the crop of 1887 and had the flour made into a cake, which, though not quite so good as that made from XXXX flour, was palatable, and would probably sustain life as effectually as any other, those using it appearing as well and strong as could be desired. I brought home a sample of this wheat for your inspection.

At Fort Resolution the Hudson's Bay Company were growing potatoes, turnips, and barley. The first two were of good quality and size; but there would be no yield of the last. The Anglican missionary also had a garden in which were potatoes, cabbage, cauliflowers, turnips, onions, and peas, the latter still green on 21st September. The potatoes and cauliflowers were both good in size and flavor. I was informed that small potatoes were grown in a garden at Fort Rae, situated on a long arm of Great Slave Lake; but, according to report, there is not much land around the lake available for farming, even were the climate suitable, as it is nearly all

rock. At Fort Smith nothing of importance from an agricultural point of view had been done and the autumn frosts were very severe.

Samples of seeds from the Central Experimental Farm were received at all the posts, but too late for planting in 1888. If proper attention is given to them, as I believe it will be at most points, the results will be very interesting and instructive as a practical test of the capabilities of the country.

In conclusion, I may say that I do not wish to be understood as representing this country as suitable for agricultural operations, as I do not think it is. I have merely presented the results of the attempts which have been made. These results are doubtless much more favorable than might be expected; but how far they would hold good elsewhere than in the immediate vicinity of the river is not known. It is probable that the presence of such a large volume of water, with a temperature of about 55°, has a beneficial influence on vegetation.

Before that part of our territory will be required for settlement, there will be ample time to determine by experiment exactly what it is worth for agriculture. In looking over the world for countries lying in the same latitude to compare with it, we find Norway extending from latitude 58° to 70° 30', with an area of one hundred and twenty-three thousand two hundred and six square miles, and a population of one million eight hundred and six thousand, nine hundred. Of her territory only about one thirtieth is under cultivation, one fourth being covered with forest, and the rest barren mountain land. But as Norway is exposed throughout its whole length to the Atlantic Ocean, the comparison is hardly apposite. Better suited for comparison is that division of Russia known as Finland, lying between 60° and 70° north latitude, with an area of one hundred and forty-four thousand two hundred and fifty-four square miles, and a population of two million one hundred and forty-two thousand and ninety-three. This shows us that we must not regard the district as altogether useless nor despair of its ultimate occupation to at least the same extent as the countries named. When we take into consideration also the adaptability to settlement of the Athabasca and Peace River valleys, which are parts of the same great drainage basin, we may look forward with confidence to its ultimate occupation by several millions of inhabitants. As I reported on the Athabasca and Peace country in 1884, I will content myself here with quoting from that report an extract relating to the agricultural capabilities of the district drained by these two rivers.

"All the way down the Athabasca to the lake, the country is (with the exception of a few meadows) thickly wooded, and a great deal of it is swamp and marsh, interspersed with lakes and ponds.

"A great deal of the soil along the bank is of very fair quality. At Fort McMurray are a couple of small prairies or meadows; the soil is good, and the root crops and garden produce raised there are generally very good.

"To convert this into an agricultural country, the forest would first have to be cleared, and considerable drainage would be required for a large portion of it, which would render the question of its settlement a problem for the future to determine.

"From Lac La Biche to McMurray is a pack trail, which is occasionally used. It follows the course of Athabasca River, at a distance of from two to twenty miles. Those who have passed over it inform me the country is much the same as that seen along the river—woods and swamps, with a large percentage of marsh or bog; also quite a number of lakes.

"The country on the west side of the river, as far as I could learn from Indians and the few white men with whom I came in contact who had been over it, was much the same, at least for fifteen or twenty miles back. I could learn nothing definite about anything much farther back than that. The only approach to prairie along the Athabasca is where House River flows into it (a few miles above Grand Rapids), at which point an extensive fire has almost cleared away the forest for a mile or two. It is now covered with a good growth of grass and shrubbery. The soil appears to be very fair—a loamy clay—and were there any inducements to settlers, a few fine farms might be established. A meadow near McMurray is about sixty

acres in extent, from which the Hudson's Bay Company procure their hay. The soil is said to be good.

"At a point called 'Point Brule,' about ninety-six miles below McMurray, fire has partially cleared off the forest for some little distance from the river. A couple of families of Chipewyan Indians have taken possession of a small portion of it, and done a little cultivation in the way of planting potatoes. Their efforts were necessarily very crude, and the appearance of the crop bore witness of it.

"It is a pity such attempts do not succeed, as one failure does more to dishearten the natives with agriculture than ten successes would do to encourage them.

"The soil at this point was gravelly clay, and, with ordinary cultivation, should yield pretty fair crops.

"On the flats near the lake the soil is wholly alluvial; it is rich, but too low and damp for agricultural purposes.

"On the north side of the lake, around Chipewyan, there is little or no soil of any description, the country being all bare Laurentian rock.

"The Hudson's Bay Company have a garden at the fort of upwards of an acre in extent, and the Episcopal Mission one of smaller area, but the soil is very sandy. The Roman Catholic Mission have a garden also, most of which they obtained by draining a bog.

"In the season of 1883 (which was a favorable one in that district, being free from summer frosts) the Hudson's Bay Company raised about four hundred bushels of potatoes, the Episcopal Mission thirty bushels on a small patch, and the Roman Catholic Mission about five hundred bushels.

"Many of the retired Hudson's Bay Company's servants also have small patches which they cultivate; potatoes and fish being the principal articles of food used during the winter.

"I am sorry to say that, owing to the prevalence of summer frosts, nothing like the above returns were expected by any of the parties above named last summer.

"I believe one or two of the patches owned by Hudson's Bay Company's retired servants escaped the frost, but the general effects were ruinous.

"Ascending Peace River until Peace Point is reached, the country is mostly low and flat, with many lakes and ponds, like that on the Athabasca. Occasionally a sandy or gravelly ridge is seen, which must have formed a bar in the shallow waters of the great lake which once covered this district. The soil on the flats is good, but, like that on the flats of the Athabasca, it is too low and damp for agricultural purposes. On the north side of the river at Peace Point the country is prairie, with poplar bluffs; and the same extends, I was informed by Indians, through to Salt River, in the Great Slave Lake district. The soil along Peace River at this point is a black, gravelly clay, with a coarse gravel subsoil; and, as nearly as could be learned from Indians, it is pretty much the same all the way through to Salt River, where there is quite an extensive prairie. This prairie was described to me by those who have seen it, as one of the prettiest and best pieces of country in all the northern district. The country along the north side of the river, from Peace Point up to Vermilion, is generally heavily timbered, with occasional parts of open scrubby woods and small patches of prairie. On the south side the open woods and prairie are less frequent, until we reach a piece of scrubby prairie, which begins seven or eight miles below Red River, and reaches to it, and runs back about two and a half or three miles where it merges into the forest. The soil in it is good black, loamy clay, about one foot deep, with a subsoil of fine sandy clay. The Hudson's Bay Company here cultivate two or three acres, and when the summer frosts are not too severe the returns are splendid. This year the crop consisted of potatoes, turnips, and garden stuff, which, notwithstanding the successive and severe frosts of the season, looked very well when I was there (the 22nd August), but Mr. McKenzie feared the yield of potatoes would be small compared with that of last year, which was enormous. Usually a little barley and wheat has been grown there; this year none was sown.

"At Vermilion, along the river on the south side, there are about twelve to fourteen miles of prairie, with small poplar and scrub, which runs back from the river about three miles. The soil is good black loamy clay, loose and deep, with a gravelly clay subsoil. The Episcopal Mission school at Vermilion, for the teaching of the young in the district, has a farm attached with about twenty acres under cultivation, under the management of Mr. E. J. Lawrence. Last year his crops of potatoes, barley and wheat were splendid; this year the frosts almost destroyed everything.

"Mr. Garrioch, in charge of the mission, also cultivates quite a large piece, from twenty-five to thirty acres in connection with the mission. The Hudson's Bay Company has an extensive field growing both roots and grain, (wheat and barley); and the Roman Catholic Mission also cultivates some ground. Besides the above farms several others were located last summer by private parties, all of whom seem hopeful for the future. Many of them had been in the country for several years. Here, as at other places mentioned, no one expected to harvest much more than the seed sown, owing to the very unusual season, which was in the early part dry and warm, so that grain sown in April did not germinate until June for want of moisture. In June the weather became very wet, and continued so all the summer, with frosts at frequent intervals. That this summer was unusually severe all were agreed, but all admitted that there was an uncertainty every year. Mr. Moberly, in charge of the Hudson's Bay Company's post here, who had lived in the country for several years, told me his experience for seven years stood as follows: Two years an unequalled success, two years failure such as the present, and three years a fair return.

"Opposite Vermilion, on the north side of the river, there is an extensive tract of prairie and poplar bluff country, which extends from the Peace to the watershed between Peace and Mackenzie Rivers south-westward along Peace River for about forty miles or more, and north-eastward along the river a few miles, until it merges into the country already described. This is said to be a first class country in every way, well wooded and watered, with a rich, deep, black, loamy soil; and if the life of flowers and berries be any indication of freedom from frost this district is favored in this respect, as the berries ripen here when they are killed in the surrounding parts.

"The country south-westward from the end of this tract to Battle River is described as woods and swamps, alternating with patches of prairie and open woods, and from Battle River to the prairie near Dunvegan is generally drier with more prairie.

"It appears, therefore, that from Dunvegan, on the north side of Peace River, down the river to Peace Point, and thence to Salt River, on the Great Slave, there is a tract of country about six hundred miles in length and forty miles wide of which a large percentage is fit for immediate settlement, and a great deal more could be very easily cleared.

"Of the country south-east of the Peace, between it and the Athabasca, very little is known. It was described by all whom I met, who had seen any portion of it, as a rolling surface, the ridges heavily wooded with fair timber, and many of the basins containing swamps and lakes of considerable size. Out of one of the latter, Lake Wapisca, Loon River flows into the Peace, and another stream called by the same name into the Athabasca at Grand Rapids. Some of the ridges rise into high hills, and in some of these rock exposures are said to be visible. Whenever the needs of the country make it worth the trouble, timber can be easily floated into Athabasca and Peace Rivers by the numerous streams which enter them from this tract.

"A little north-east of Vermilion, and between twenty and thirty miles from the river, is the west end of Cariboo Mountains. They extend from this point eastward about sixty or seventy miles, and then appear to turn to the north. From a station a little below Vermilion I took the angle of elevation of the highest point I could see in them, and found it to be  $0^{\circ} 55'$ , so that they must rise between one thousand five hundred and two thousand feet above the river. I saw no white man who had been in these mountains, except on a flying visit in the winter for trading.

and then, of course, the most rugged parts would be avoided, and consequently very little observed of the rocks composing them. The Indians speak of beautiful many-colored stones seen in them. Judging from what they say, I think the rocks are Laurentian, and the 'beautiful stones' may be crystals. I was told they also speak of places on the north side of the mountains which smoke in the winter; but I have noticed that the Indians call all sorts of vapours 'smoke,' and what they call smoke may only be the vapour rising from springs.

"At Dunvegan, notwithstanding the severity of the frosts, the crops are very good both in quality and quantity. When I was there the Roman Catholic missionaries had threshed their grain, samples of which I brought back. The yield was as follows:—fifty pounds of wheat were sown on the 16th April and reaped on the 20th August, and twenty-seven bushels threshed of good clean grain; fifteen pounds of Egyptian barley sown on the 18th April and reaped 20th August, and fifteen bushels threshed, weighing fully sixty pounds to the bushel. The Hudson's Bay Company and Episcopal Mission had not threshed, and could not give their returns; but they were well satisfied with their crops of all kinds. The Rev. Mr. Brick, of the Episcopal Mission, was already using bread when I was there made from wheat of the present year's growth.

"The only settler in all the Peace River country who lives beyond the immediate valley of the river (Mr. Milton, about eleven miles from Dunvegan), lost all his crop by the frosts; fortunately for him, his operations were not very extensive. A company was formed last season, by people interested in that part of the country, to erect a small grist mill in order to encourage settlement there; but the unusual severity of the season caused them to recall the order they had already sent out for the mill. It is much to be hoped that next season will prove more favorable; should it not, it will divert a good deal of attention that is now directed to that part of the country, and of which (aside from the climatic conditions) it is in every way worthy."

#### FISH.

Fish are numerous in the Mackenzie, the principal species being that known as the "Inconnu." Those caught in the lower river are very good eating, much resembling salmon in taste, being also firm and juicy. The flesh is a light pink in color, but as they ascend the river and become poor, this tint turns white and the flesh gets soft and unpalatable. They average ten or twelve pounds in weight, but have often been caught weighing thirty or forty. They ascend as far as the rapids on Great Slave River, where they are taken in the fall in great numbers for dog-feed, being then so thin that they are considered unfit for human food, if anything else is obtainable. This fish is not fed to working dogs, unless scarcity of other fish compels it. There is a small fish known locally as the "herring," somewhat resembling the Inconnu in appearance, and which does not grow larger than a pound or two in weight. The staple fish of the district, and, for that matter, of the whole North West, is the whitefish. They abound in many parts of the river, but especially in all the lakes discharging into it, and form the principal article of diet during the greater part of the time, as very little food is brought into the country. This fish is caught in large numbers everywhere. At Fort Chipewyan, the Hudson's Bay Company, in the fall of 1888, required thirty-six thousand for the use of the post; the Roman Catholic Mission, twelve thousand; and the rest of the population, at least thirty thousand more. Most of these were caught within three weeks, while I was there. Sometimes they are numerous in one place, and sometimes in another, so that long journeys are often necessary from the place where they are caught to where they are to be used. This necessitates a large number of dogs to haul them home, which is a very poor method, though the only one in use. To overcome this inconvenience Mr. McDougall, at Chipewyan, has built an ice-boat, but has so far met with indifferent success, as the ice has been unusually rough during both of the last two falls.

## FURS.

As the trade in furs is pretty well known and understood throughout the country, it is not necessary to say very much about it here. I have no statistics to offer in connection with it other than can be derived from published reports on that section of the country. The pelts obtained in the district are essentially the same as those obtained in the rest of the territory, with the addition of the musk ox, the Arctic or white fox, and the blue fox, the first being found only on the barren grounds east of the river and north of Great Slave Lake, and the two last down near the Ocean.

The labor attendant on bringing the skin of the musk ox from the barren grounds where it is killed, is great compared with that connected with securing other pelts; and this will to a certain extent protect them from the undue slaughter which has resulted in the extermination of the prairie buffalo. An Indian gets a little more for a musk ox skin than for a marten pelt, yet he can bring a hundred marten pelts to market with less labor than one ox skin. If he travels far into the barren lands after them, he has so much farther to bring the skin back. So there is a limit he cannot conveniently pass, and beyond this the ox will be unmolested, except occasionally by bands of Indians passing from one lake or district to another.

Moose are now scarce all along the river, as are deer of all kinds.

The wood buffalo which formerly roamed around all the upper waters, is now nearly a thing of the past. A few still remain scattered over a wide district. Could some means be devised to protect them for several years, they would probably soon multiply and become a source of food supply and revenue to the natives. Mr. McDougall, who has for some years past been gathering information concerning the number of these animals and their locality, has kindly given me the following notes. In the winter of 1887-88 on the head waters of Hay River which flows into Great Slave Lake and west of Battle River, a tributary of the Peace, the Indians saw three bands containing seventeen, ten, and four, respectively; they killed five, but Mr. McDougall did not ascertain whether these were in addition to the above numbers. The same winter three bands were seen between Salt River and Peace Point on Peace River, numbering fifty, twenty-five, and about twenty-five, respectively. None of these are reported to have been killed. During the winter of 1886-87, between the north end of Birch and the south end of Thickwood Mountains, distant about one day or thirty miles from Fort McMurray on Athabasca River, one band of about thirteen was seen. Since then five of this band have been killed. Below Red River, a tributary of the Athabasca, and between Birch Mountains and Athabasca River, and ranging down to Poplar Point on the Athabasca, another band said to contain about twenty was seen. Altogether we have only about one hundred and eighty head of wood buffalo in this vast extent of territory. The paucity of their numbers is, to some extent, a protection to them. If they escape epidemics and such a winter as almost exterminated them on the Upper Peace, some years ago, they may possibly increase. Whenever the Indians come across a band they try to exterminate them whether they need them for food or not. They try to drive them into a bog, if one be convenient, and, if they succeed in this, their object is soon accomplished; for the poor brutes mire in the bog and are quickly killed. The Indian feels, after accomplishing a feat of this kind, as if he had won a battle, and never thinks of the reduction in his food supply.

Owing to excessive competition in the outer or southern parts of the district, the supply of fur is gradually decreasing, both in quantity and quality, for the Indians now kill anything they see at any time in the year, knowing that if one will not buy from them another will. I have known them to break into a beaver house in the month of June, after barring all means of exit, and kill both old and young, though the young were hardly able to crawl about. When there was only one trading company in the Territory such things were not only discouraged but punished, by declining to buy out of season, and refusing to give credit to the Indian guilty of such unnecessary destruction. In this way fur-bearing animals were pro-

tected from extermination. Now, no such check can be applied, and consequently the supply is slowly diminishing, and the only source of food which the Indian possesses, outside of wild fowl and the fish in the lakes and streams, will soon be gone. In fact, it is already gone, to such an extent that he is often starved for the want of means and appliances to hunt or fish with. From this cause many have starved to death in the last two years in the Athabasca district. If the present rate of decrease is maintained in the supply of fur, in a few years it will be but little assistance to the Indian as a means of living. Then he will, as far as possible, remove to the vicinity of the settlements, where the public will have to sustain him, and the only business now pursued in the northern part of the Territory will almost cease. The evil will, to a certain extent, work its own cure; for the stoppage of the trade will allow the fur-bearing animals to increase until it pays white trappers to engage in hunting: once the Indian becomes assured of a living elsewhere he will resort to the hunting field no more.

I would respectfully suggest that some method be devised for restricting the indiscriminate slaughter of fur-bearing animals. For the greater part of this slaughter there is no reasonable excuse, as most of the fur-bearing animals are useless as food, or are never eaten (which is the same thing), and protecting them during the breeding season would entail no hardship on any one. To appoint and pay protective officers would probably cost more than the whole business is worth to the country, and the result would likely be a failure. An alternative would be to lease the country to companies in districts large enough, and for terms long enough to make it an object to them to protect the trade and preserve the fur from extermination. The lessees should also enter into bonds not to accept a skin out of season, or one too young, under a heavy penalty for breach of this condition. It would probably be difficult to prove any such breach, but the fear of the penalty and the profit from protecting the trade would, I believe, accomplish all that is desired.

It is true that such an arrangement as a monopoly seems contrary to the spirit of the times, but the alternative is serious. Objection to such an arrangement on the ground of monopoly has less force when we consider that all the competition is now between one large company and a host of individuals, who, as far as known, make little or nothing out of the trade, and would be much better off on farms or in some other occupation in the settled districts.

I disclaim any desire to interfere with the private business of others, but I respectfully submit these facts and views for consideration, feeling that it is my duty, though an unpleasant one, to offer these suggestions.

#### MINERALS.

##### *Coal.*

On the Mackenzie, the first coal I heard of was a seam of which Mr. McDougall at Chipewyan told me, and which is situated in the base of the mountain just above Rapid Sans Sault, on the east side of the river. He could not give me any details concerning its extent, more than that he believed it to be about four or five feet thick, and that it was in the limestone rock of the mountain. If this is true, it indicates that this coal is older than the lignite coal of the country, and probably much harder and better. I did not know of its existence until I got to Fort Chipewyan, or I would have tried to have a specimen sent out after me.

About three and a half miles above Fort Norman, on the east bank of the river, two extensive exposures of lignite crop out. The upper one is overlaid by about fifty feet of clay and a few feet of friable sandstone, and is about fifteen feet thick. The other seam is probably forty feet below this; when I was there it was nearly all under water. It is said to be as thick as, if not thicker than, the upper one.

The upper seam has been on fire for over a hundred years, as it was burning when Sir Alexander Mackenzie passed in 1789. The place is locally known as "Le Boucan." The fire extends at present about two miles along the river, not continuously, but at intervals. When I passed it was burning in three or four places.



After it has burned a certain distance into the seam the overlying mass of clay falls down and, to some extent, suppresses the fire. This clay is in time baked into a red colored rock, in which are found innumerable impressions of leaves of plants. Some specimens of these I brought home, and handed to Dr. Dawson. Traces of this red rock were noticed on the bank fourteen miles below Fort Norman; but no trace of lignite was seen near it, having probably been all burned.

The burning seam appears to be of poor quality, containing much shale and sand, which is converted by the heat into scorix. It did not appear to me that it would be difficult to cut off all the burning places, and thus stop the further advance of the fire, which is destroying what yet may be of use. In order to find whether the combustion could be checked I took a shovel at one place and soon had all the burning coal for a short distance completely cut off, so that the fire ceased for a time at that spot. It is a pity that at least an attempt to put out the fire is not made. Many persons in the district have an idea that it is subterraneous, and that the seat of it cannot be reached. This is a mistake, as at the point mentioned I cleaned the fire off from the face of the seam to its base and found underneath no trace of burning. The lower seam appears to be of better quality, there being no shale or sand mixed with it, as far as I could see. Heavy rain detained us here for two days, and we burned a good deal of lignite from the lower seam, as we could not reach the top of the bank to procure wood, and could find only a log or two of driftwood. The coal burned well in the open air, and threw out a much stronger heat than a wood fire. These seams are visible at frequent intervals along the bank for eight and a half miles, after which no trace of them appears for seven miles, where there is another small exposure at the water's edge. This seam appears, from the reports of many travellers, to extend up Great Bear River for a considerable distance. No other traces of coal were observed on the river.

While at Fort Good Hope I noticed that many of the outbuildings and fences were painted with a dull red coloring matter, which, on inquiry, I found consisted of the ashes of wood that had lain in the river for some years. It was said poplar trees yielded the best paint, and that logs that had been in the water long enough were known by the dull blue color of the wood. A sample of the ashes I brought home, and handed to Dr. Dawson. It may be that the color is due to the presence of oxide of iron; if so, this would indicate the existence in the water of iron in solution. But where the iron comes from is a mystery, as none of this peculiar wood was seen or heard of on the upper river. The inference is that the iron occurs far down the river, but whether in the soil or in beds on some of the tributary streams, or whether it is iron at all, has yet to be determined.

The Indians report very large deposits of mica on the south side of Great Slave Lake, and have brought small samples of it to Fort Resolution. While there I tried to get a specimen, but none was available. It is described as being very abundant.

No other minerals of economic value were seen or heard of, except bitumen. On the way up the first indication of this was seen on Great Slave Lake, in the form of the bituminous limestone which has already been referred to. Tar springs, as they are called in the vicinity, exist on the lake. I do not know of any of them on Slave River, but they abound on the Athabasca from near the delta for over two hundred miles up; and one is reported only a few miles from Athabasca Landing, less than one hundred miles from Edmonton.

The following extract from a report by Dr. Bell, of the Geological Survey, published in the Geological Survey Report for the year 1883, will show the geological relation and general appearance of this tar:

"That the deposit is of cretaceous age, but rests directly on limestone of the Devonian system. The bedding of the latter undulates gently, while the asphaltic sand lies in thick horizontal layers upon its surface, and in some cases fills fissures in the upper part of the limestone. The asphaltic matter has no doubt resulted from petroleum rising up out of the underlying Devonian rocks, in which evidence of its existence can be detected. In descending Athabasca River it was first observed a few miles above the junction of the Clearwater branch, below which it becomes

more conspicuous, forming the whole banks of the stream, with the exception of a few feet of limestone at the base, for a distance of many miles. These banks are sometimes about one hundred and fifty feet in height, and frequently maintain an elevation of about one hundred feet for a considerable distance. Except where they have been long exposed to the weather, they generally look as black as coal. A thick tar is often seen draining out of the deposit, and in numerous places on the ground at the foot of either bank, or on terraces lower than their summits, this tar collects in pools, or flows in sluggish streams to lower levels among the peaty materials in the woods. The surface of these accumulations of tar is usually covered with a hardened pitchy crust. The boatmen on the river break through this crust to collect the underlying tar, which they boil down and use for pitching their craft."

In connection with this formation may be mentioned an escape of natural gas which occurs on the river a short distance below Grand Rapids. It comes out of the bank at the water's edge on the west side of the river. There is such a quantity of it that when ignited it will continue burning until the water rises and extinguishes the flame. The boatmen on the river use it to cook their meals. They say the flame sometimes rises to a height of several feet above the ground. It is said to come out of a narrow crevice which runs at right angles to the course of the river at this point and disappears in the water. The boatmen describe the sides of this crevice as bearing a strong resemblance to the tar-bearing sand seen farther down the river. This sand was first noticed by me in my descent of the river in 1884, about thirty-five miles below Grand Rapids; but, according to this statement of the boatmen, it occurs several miles farther up the river.

Tar springs are also reported on Little Slave River, but this I hardly credit as I have been up and down that river twice, and though I saw the place where they are said to exist I did not notice any tar. A tar spring is known near the mouth of Martin River, on Lesser Slave Lake, and specimens from it have been taken into Edmonton. I have heard of another tar spring on the Athabasca, near the mouth of the Pembina. There is also one on Tar Island, near Smoky River, twenty-three miles below where the cart trail crosses Peace River; and another some distance below that. These indications lead to the conclusion that all this vast region is underlaid by a deposit of this material. It appears that it is of little or no value in itself, except in so far as it indicates the existence of petroleum. If it shows the presence of petroleum of good quality we have here probably the largest oil-bearing district in the world, comprising nearly 150,000 square miles; and as the indications are said to extend down the Mackenzie below Lake Athabasca, the above area may be only a part of our northern oil district.

It is a pity that a test well has not been sunk in the vicinity of Athabasca Landing to determine the existence there, and the quality of the tar. If illuminating and lubricating oils and paraffin were found in quantity it would give an impetus to the development of that part of the North West which nothing else could.

When we consider the nearness of the southern limit of this district to the western coast of the continent (by the present trails and the railroads less than one thousand miles) we see that, in supplying our western country and a part of Asia with these products, this district possesses a great advantage. If it were once certain that an outlet could be had by the mouth of the Mackenzie for part of the year, the northern part of this district would, during the four or five months of navigation, have facilities for shipment almost unequalled, as the carriage down the Mackenzie would require very little motive power, only enough to keep the vessels from being beached. If it were found that the sea is not open long enough, or is too uncertain and hazardous, a cargo could be discharged at the foot of McDougall's Pass, and the oil could be pumped over the summit to navigable water on Bell River. True, it would have to be raised over an elevation of twelve hundred feet, involving a pressure on the lower pipes of about three hundred and sixty pounds to the inch; but the cost of the strong pipes required would be counterbalanced by the comparative cheapness of the descent of Mackenzie, Bell, Porcupine, and Yukon

Rivers, while from the mouth of the latter it is only about three thousand six hundred miles to Japan, as compared with about five thousand from San Francisco.

Mr. G. C. Hoffman, Chemist of the Geological Survey, says the tar or maltha, as at present found on the surface throughout a large district on the lower Athabasca, could be utilized for a bituminous concrete for the paving of roads, courtyards, basements, and warehouses, and for roofing. The tar is found combined with fine, colorless, siliceous sand, which constitutes 81.73 per cent. of the mixture.

Last fall a man named McDonald, living at the mouth of Red River on the Athabasca, undertook to dig a well at that place, but found all the soil to be so saturated with tar that he could get down only a few inches. He told me he tried several acres of ground before he could find a suitable place to dig for water. It is possible that a well bored at Edmonton would, at a reasonable depth, tap the formation containing this tar, and it is almost certain that one bored at Athabasca Landing would. A great deal might be said of the value of an oil deposit here; but as those interested in the trade fully understand all that, it is needless to do more than mention the localities in which indications are known to exist, and the facilities for getting to them, for the information of those desiring to test the question.

Large deposits of salt are reported on Salt River, some miles from Fort Smith. I did not have an opportunity of visiting them, but they are described as extensive. The salt is used all over the Peace, Athabasca, and Mackenzie districts, and to the taste is pure. Mr. McConnell, of the Geological Survey, visited the deposits in the fall of 1887, and no doubt will give a full and comprehensive report of them.

The railroad station nearest to Edmonton is Calgary, on the Canadian Pacific Railway, the distance by the cart trail being about one hundred and ninety-six miles, and air line distance one hundred and seventy-two. All the material brought into Edmonton and also the northern district has to be freighted along this trail, and already the machinery for several steam mills has been hauled over it. The freight rates from Calgary to Edmonton are from one and a half to three cents per pound, according to the state of the roads and the necessities of the importer.

From Edmonton, by the existing trail, to Athabasca Landing is a distance of ninety-six miles, the direct distance being about ten miles less. The freight rate between these points is about two cents per pound. The Hudson's Bay Company hauls all the trading outfits for the posts north of Edmonton over this route, and the machinery for three steamboats has passed over it. In 1887 and 1888 there was a portable saw-mill at Athabasca Landing, with which to saw lumber for the construction of the steamer Athabasca. Had there been a drill there at the time a test well could have been sunk at very slight cost.

The steamer Athabasca runs down the river one hundred and sixty-eight miles to the Grand Rapids. Between this and Fort McMurray there are eighty-three miles of rapids, on which the Hudson's Bay Company has a line of boats capable of carrying about ten tons each. From Fort McMurray there is almost unbroken easy navigation to the Arctic Ocean. The steamer also goes up the Athabasca to Little Slave River, sixty-eight miles from Athabasca Landing, and up the latter stream several miles. From the head of steamboat navigation on Little Slave River it is about sixty miles to Lesser Slave Lake, and about sixty along it to Lesser Slave Lake post; thence seventy-six miles by cart trail to Peace River Landing.

#### THE NATIVES.

On the Mackenzie I did not stay long enough to learn much about the Indians in the district, nor did I see many of them. While we were in the delta of the river nine large boats loaded with Esquimaux from the coast passed on their way up to Fort McPherson to do their trading for the season. These people come up from the coast in skin boats, made, it is said, of whale skin put around a wood frame. These boats present a very neat appearance, and are capable of carrying about two tons each. Whale oil is one of the articles they bring in for sale. The Esquimaux are reputed to be great thieves, and to require close watching. For this reason

they were not encouraged to remain when they called on us. Moreover, as they are not very cleanly in person, their presence is not desirable. They were formerly very aggressive toward the Indians on the lower part of the river, frequently coming up and robbing and sometimes killing them. Many years ago they received a severe chastisement for this from the combined whites and Indians, and since that have been guilty of no very aggressive act, though they are inclined to be overbearing when they have the advantage in numbers. It is said that murders are frequent amongst themselves; and, as in most savage tribes, retribution is the prerogative of the kin of the murdered. Missionaries have tried to do something toward their moral improvement, but hitherto without very much effect. Many of them still hunt with the bow and arrow and spear, as it is not considered wise to trust them with gun and ammunition.

Through the kindness of the Hudson's Bay Company's officers I was furnished with the following census, taken in 1881, of the inhabitants in the vicinity of each post. At some of the posts I learned the number now living there, and in every case, when comparison was made between the census of 1881 and the number now living, it was found that the figures had decreased; but as the later count was hurried and necessarily imperfect, I will not give the figures, and only mention the fact that they are not increasing. This is also the opinion of all the people in the district to whom I spoke on the subject.

The following table, from the census of 1881, includes, besides the Mackenzie Basin proper, Rampart House, on the Porcupine, and LaPierre's House, on Bell River:—

## WHITE POPULATION.

Place.	Men.	Women.	Boys.	Girls.	Total.
Rampart House.....	2	1	1	2	6
LaPierre's House and Fort McPherson.....	11	6	12	9	38
Good Hope.....	8	4	6	8	26
Norman.....	2	2	1	4	9
Liard, Liard River.....	7	4	4	5	20
Nelson, do.....	5	3	5	3	16
Simpson.....	14	6	9	10	39
Providence.....	13	14	8	7	42
Rae.....	8	4	8	6	26
Big Island.....	5	4	9	8	26
Totals.....	75	48	63	62	248

## INDIANS.

Rampart House.....	80	68	73	65	286
La Pierre's House.....	36	41	25	39	141
McPherson.....	93	87	95	76	351
Good Hope.....	178	142	132	131	583
Norman.....	74	76	58	46	254
Liard.....	46	47	75	48	216
Nelson.....	44	42	66	57	209
Simpson.....	130	136	124	110	500
Providence.....	92	106	142	116	456
Rae.....	128	147	188	152	615
Esquimaux at McPherson.....	80	100	80	90	350
Totals.....	981	992	1,058	930	3,961

The Rev. Father Grouard, Roman Catholic missionary at Chipewyan, who is well acquainted with all the country around Peace River and the lakes, gave me the

following as the approximate numbers of the Indian population at the places mentioned. They are all in the Hudson's Bay Company's District of Athabasca:—

Resolution.....	300
Fort Smith.....	200
Chipewyan.....	500
Fond du Lac.....	250
Vermilion, Peace River.....	300
McMurray.....	150
Total.....	<u>1,700</u>

I have no means of determining the Indian population in the Peace River District, which includes the Lesser Slave Lake valley; but, from my knowledge, having been there twice, I would not place the number at more than seven or eight hundred all told.

The Indians on the lower Mackenzie not having come much in contact with whites, except the missionaries and the Hudson's Bay Company's officers, have retained more of their primitive simplicity and truthfulness of manner than the Indians on the Peace and Athabasca. The native population on the Mackenzie did not appear to be as much mixed with white blood as that on the Peace and Athabasca; but, as I have not seen as much of the people on this as on the latter two rivers, such may not be the case.

At every point where I came in contact with the natives they were obliging and kind, but like all Indians I have met they expect to be well paid for it. This of course is much better than to have them display no feelings but those of extreme selfishness, and still expect all the kindness and attention one can bestow on them.

#### FROM FORT CHIPEWYAN TO EDMONTON.

As soon as the ice on the rivers was strong and the snow sufficiently deep I took my departure from Fort Chipewyan for Edmonton. I took three dog teams with me as far as Point Brulé on Athabasca River, from which place I sent back one of them, the other two going with me to Fort McMurray. I left Fort Chipewyan in the early morning (four o'clock) of the 27th of November, and travelled by way of Quatre Fourches Channel and Lake Mammewa.

On the way across Lake Athabasca to the Quatre Fourches one of the men (Morison) dropped through the ice and had a very narrow escape from drowning. During the journey I made a rough survey of the channels and Lake Mammewa, which will enable me to lay it down on our maps better than has heretofore been done. I arrived at Fort McMurray on the afternoon of the 3rd of December. Here I had a day's rest, both men and dogs having much need of it. I left Fort McMurray on the morning of the 5th, taking the Hudson's Bay Company's winter trail to White Fish Lake, and having the assistance of two of their dog teams which were going across to the Long Portage.

From White Fish Lake I came south-easterly over an Indian trail, never before travelled by white men, to Heart Lake; thence to Lac la Biche; and thence by horses and sleighs to Victoria, on the Saskatchewan River. From Victoria to Edmonton wheels had to be used. I arrived at Edmonton on the evening of 23rd December, and after transacting some business there I left by waggon for Calgary on the morning of the 25th. I reached Calgary on the morning of the 29th and left on the morning of the 30th, arriving in Winnipeg on the 31st.

On the way from Fort McMurray to Lac la Biche I kept up a survey of my track, rough, it is true, but on plotting it I find that it agrees with the latitudes of the terminal points within three or four miles, though these latitudes are uncertain. This will fill a gap in our maps, as heretofore nothing certain was known of that region.

After spending some days in Toronto in connection with my magnetic work, I arrived in Ottawa on the 15th January, since when I have been busy preparing my maps and returns.

#### MAGNETIC OBSERVATIONS.

I give the results of the magnetic observations taken during the expedition. The declination was determined with a six-inch needle in a box which could be attached to the dip circle. It was made from the Surveyor-General's design, and suited the purpose very well, saving the trouble of carrying a compass. The total force was determined each time with two weights, thus giving two independent determinations, and the quantity given is the mean of these. Very seldom they differed by more than a unit in the second decimal place. The value is given in British units, but is computed and entered in the record book in both British and C. G. S. units. At Fort Good Hope I had the good fortune to meet an old French Canadian who went down the river in the spring of 1844 with Captain Lefroy (now General Sir J. H. Lefroy), when he went to that place to determine the magnetic elements. He showed me the post which Captain Lefroy had set up to observe on, and I placed my tripod over it. That was the only place at which Captain Lefroy observed where his position and mine were exactly the same.

While determining the declination at the Boundary Observatory on the Lewes River I took simultaneous readings of the needle and the declinometer, with which readings of the declination were taken twice daily during my stay there. This will afford a very close determination of the declination at this point. As most of the results are deduced from but one observation, their value is doubtful, especially in the case of the declination. The latitudes and longitudes given in my magnetic record on the Lewes and Pelly are deduced from the survey, and are correct to within a very few seconds of arc. Those between the Pelly and Mackenzie are only approximate; and those on the Mackenzie are those given by Captain Lefroy in his "Diary of a Magnetic Survey of a portion of the Dominion of Canada, executed in the Years 1842-1844." At one or two of the points I was unable to determine the declination, not being able, on account of clouds, to find the true astronomical azimuth of a reference object.

Place.	Date.	Latitude.	Longitude.	Declination.	Dip.	Total Force.
	1887.	° ' "	° ' "	° ' "	° ' "	
Lake Lyndeman.....	June 25..	59 47' 1	135 04' 8	32 16' 8	77 05' 1	12' 969
Marsh Lake.....	July 17..	60 21' 1	134 17' 2	32 46' 1	77 32' 5	13' 076
Cañon.....	do 24..	60 42' 3	135 04' 1	30 55' 2	77 43' 9	12' 884
Lewes River.....	Aug. 7..	62 04' 5	136 04' 0	33 54' 8	78 16' 4	13' 068
Fort Selkirk.....	do 18..	62 47' 6	137 24' 9	34 17' 0	79 08' 6	13' 049
White River.....	do 26..	63 11' 9	139 37' 8	34 27' 9	78 19' 4	12' 950
Stewart River.....	do 27..	63 22' 3	139 28' 5	33 52' 8	78 36' 6	12' 933
Forty-Mile River.....	Sept. 12..	64 25' 5	140 31' 7	35 01' 1	78 46' 2	12' 885
	1888.					
Boundary.....	Jan. 3..	64 41' 0	140 54' 0	Not read.	78 49' 9	13' 002
do.....	Feb. 27..	64 41' 0	140 54' 0	35 45' 3	78 49' 4	13' 012
do.....	do 28..	64 41' 0	140 54' 0	35 47' 5	78 49' 4	13' 018
Porcupine River.....	May 16..	65 43' 0	139 40' 0	37 44' 3	79 57' 3	13' 053
do.....	do 20..	65 43' 0	139 40' 0	37 23' 7	79 52' 4	12' 962
La Pierre's House.....	June 7..	67 23' 0	Unknown.	Not read.	81 24' 7	12' 998
McPherson.....	do 22..	67 26' 0	134 57' 0	46 00' 8	81 48' 9	13' 205
Good Hope.....	July 13..	66 16' 0	128 31' 0	41 30' 9	82 18' 4	13' 264
Norman.....	do 29..	64 54' 3	125 43' 1	33 39' 0	82 00' 5	13' 350
Mackenzie River.....	Aug. 5..	64 26' 7	125 03' 3	41 34' 6	81 56' 1	13' 360
Simpson.....	do 27..	61 52' 0	121 25' 2	37 42' 3	81 19' 2	13' 501
Resolution.....	Sept. 20..	61 10' 5	113 46' 5	38 19' 9	82 09' 1	13' 680
Chipewyan.....	Nov. 22..	58 43' 0	111 18' 7	27 15' 3	81 21' 8	13' 708
do.....	do 23..	58 43' 0	111 18' 7	27 09' 5	81 22' 5	13' 729
do.....	do 24..	58 43' 0	111 18' 7	27 17' 9	Not observed.	

In 1843 and 1844 Captain Lefroy observed at Forts Chipewyan, Resolution, Norman, and Good Hope. At Chipewyan his observations extended throughout the winter. His values there are: declination, 28° 45'·8; dip, 81° 36'·8; force, 13·885. At Resolution his declination was 37° 12'·5; dip, 82° 44'·4; force, 13·956. At Simpson; declination, 38° 00'·4; dip, 81° 52'·2; force, 13·808. At Fort Norman: declination not observed; dip, 82° 34'·3; force, 13·653. When he was there, Fort Norman was up the river from its present site, about midway between the place of my observations of 29th July and 5th August. At Fort Good Hope; declination not observed; dip, 82° 55'·9; force 13·681. At Fort Simpson Sir J. H. Lefroy's observations extended from 26th March until 25th May. The bi-daily readings of my declinometer at the Boundary for the months of November, December, January, and February are appended, and will serve to show the fluctuations in, and the limit of the range of, the declination.

METEOROLOGICAL OBSERVATIONS.

In my meteorological observations, which are given in the appended tables, the barometer readings are recorded as read, and the temperature of the attached thermometer is always given, so that the temperature correction can be made at any time. After I left the Boundary on Lewes River the barometer readings are those of my aneroid, and the temperatures given with them are the temperatures of the air in which the barometer was exposed. Before leaving the Boundary I determined the effect on the aneroid of change of temperature. I give the readings, from which it will be seen that this particular instrument, at least, is pretty well compensated for temperature:

January 18th, 1888, temperature in house, 64° Fah.	
Mercurial barometer, corrected for temp., 30·158; aneroid...	30·215
Outside temperature.—41°·0 Fah.; aneroid.....	30·120
Range of temperature, 105°; range in aneroid .....	0·095
Correction for each degree of change in temperature .....	0·0009
A second and better trial on the same day resulted thus:	
In house, mercurial barometer, corrected for temperature....	30·149
do aneroid do .....	30·200
Outside, aneroid do .....	30·121
Inside temperature 68°; outside—31°·5; range 99°·5:	
Range in aneroid.....	0·079
Correction for change in mercurial barometer .....	0·003
Corrected range in aneroid barometer.....	0·076
Correction for each degree of change in temperature.....	0·000763

This, so far as ordinary changes of temperature are concerned, is less than the probable error of reading the instrument, and may be neglected.

Before I began to keep the regular daily record I took, whenever I had an opportunity, simultaneous readings of the mercurial and aneroid barometers; and as such readings were taken while I was passing over the summit of the Taiya Pass we have the means of finding the value of the readings of this instrument up to an altitude of 3,400 feet. I give the corrected readings of the mercurial barometer, with no dates, for the sake of brevity, but the readings are entered in order of time:—

	in.	in.	in.	in.	in.	in.	in.
Mercurial.....	29·149	28·779	28·741	28·334	27·537	26·289	26·236
Aneroid.....	29·150	28·795	28·750	28·325	27·500	26·295	26·225

These comparisons might be extended, but I think the above are sufficient for the purpose intended, viz., to show the reliability of the aneroid which I used.

In the column headed "water change," the figures show the rise or fall in inches, the arrow denoting whether the water is rising or falling. Except on Sunday, the change during the night was alone noted, the average interval being about ten hours. The record for the last twelve days of October was given me by the Ven. Archdeacon Reeve, of Chipewyan, who, during his stay at that place, kept a daily meteorological record for the head office at Toronto.

No regular record of the appearance and brilliancy of the aurora was kept during my stay at the Boundary. Nothing unusual was noticed in this connection, except its appearance two or three times in daylight. The first time I saw this phenomenon my attention was drawn to a long, thin, streamer-like cloud: as the air was perfectly calm it excited my curiosity and I watched it closely, noticing all the fluctuations in intensity, sudden increase and decrease in extent, and quickly shifting movement of the aurora. It was noticed again on two or three occasions and observed closely, to determine whether or not it was aurora, but always with the same result. It could have been nothing else. It was of about the brilliancy or pale aurora when seen at night, although the sun at the time was well above the horizon. Several members of the party observed all these appearances as well as myself. This phenomenon has been seen by several others. (See *Encyclopædia Britannica*, Vol. III, pages 90-91).

As to the aurora making an audible sound, although I often listened when there was a very brilliant display, and despite the profound stillness which is favorable to hearing the sound, if any sound occurs, I cannot say that I ever even fancied I heard anything. I have often met people who said they could hear a slight rustling sound whenever the aurora made a sudden rush. One man, a member of my party in 1882, was so positive of this that, on the 18th November, when there was an unusually brilliant and extensive display, I took him beyond all noise of the camp, blindfolded him, and told him to let me know when he heard anything, while I watched the play of the streamers. At nearly every brilliant rush of the auroral light he exclaimed: "Don't you hear it." All the time I was unconscious of any sensation of sound.

A phenomenon which I never saw elsewhere or heard of was observed twice in the month of February, first on the 19th, and again on the 29th. This was green clouds. The display on the 19th was extensive and very beautiful; that on the 29th not so much so. This phenomenon was seen in the morning, just before sunrise, and on both occasions the sun was covered with downy, white clouds, while there was a very slight fall of minute ice crystals, accompanied by a much higher temperature than usual. The color was a brilliant emerald green, fringed on the lower side with yellow, which, as the sun gradually rose, encroached on the green, until the clouds were all yellow. This color changed to orange and red after the sun had risen above the horizon. The first time the green color lasted about a quarter of an hour; the second, only a few minutes. It is probable that the form of the snow crystals in the air produced abnormal refraction and made the green rays of the spectrum conspicuous.

Some of the miners who had been in the country during the winter of 1886-87 told me of the fall of a very large ærolite. None of them had made any note of the date, but all agreed it was two or three days before Christmas, 1886, about the hour of ten in the evening. The flash of light from it was described as very brilliant, making the interior of their ill-lighted huts as bright as mid-day. The report which followed its striking the earth was spoken of as terrific, and this was followed by a rumbling, crashing sound, as of rocks falling, which continued for some seconds after the report. I received accounts of this occurrence from two points, twenty-two miles apart. At these places the impression made was about equally intense. This will give an idea of its size, as well as of the distance away at which it must have struck, as at both places it appeared in the same direction. On the 17th of February, 1887, I was on my way from Forty Mile River to my winter quarters, and accompanying me was a miner who had witnessed the flash and heard the report of the ærolite. About nine miles above my destination we stopped and had some



lunch. Just as we were starting again a tremendous explosion was heard, followed by a rending, crashing sound, as though the side had been torn out of a mountain and had fallen from a great height. The explosion appeared to shake the ice on which I was standing, and so near did it seem that I thought, if it were not for the snow that was falling thickly at the time, that the catastrophe would be seen on the mountain side, only a mile or so away.

The miner, who was at the time engaged in arranging the harness on his dogs, instantly exclaimed: "That's one of them things." The direction the sound came from was about north-east. On my arrival at camp I found three miners there who had come up from Belle Isle, and they, too, heard the report and the rending and crashing of rocks. It appeared to them quite as loud as it did to us, and the direction from which the sound came was north-east. At the time we were over fifteen miles apart; hence, the source of the sound must have been a very long distance from both points. The time at which the explosion was heard was 1h. 10m. p.m., local time.

It would be ungrateful in me to close this report without acknowledging the kindness and attention of all with whom I came in contact on my travels. On the coast, the United States officers showed me personally every possible attention and kindness, and did all in their power to assist me in difficulties. In the interior the miners were not less attentive and thoughtful, and the traders, Messrs. Harper & McQuestion, were more than kind, giving me much valuable advice, often when it was against their own pecuniary interest to do so, and aiding me in my dealings with the natives to the best of their power. To the missionaries, both Protestant and Roman Catholic, on the Mackenzie River, I owe much for their hospitality and disinterested advice and assistance. To the officers of the Hudson's Bay Company, both myself personally, and the party generally, owe much for their readiness everywhere to assist us all they could. I can truthfully say that their kindness and assistance were disinterested and genuine, if aiding me often without being asked, and certainly with no pecuniary profit to themselves or the Company, is any proof of it.

To the four men who accompanied me through the whole journey I would here return thanks for their cordial co-operation and spirited readiness to do their duty at all times and in all places. They were called on to toil for long hours and under conditions more disagreeable and hazardous than fall to the lot of many; yet they never flinched, even when their lives were in danger. Their names deserve to be recorded here: they are William T. Morison, of Ormstown, Quebec; Charles T. Gladman, Peterborough, Ontario; F. F. Sparks, Winnipeg, Manitoba; and Frank G. Parker, Waterville, Quebec.

The total result of the expedition has been in round numbers nearly 1,900 miles of accurate instrumental survey, and a very close approximate determination of the position of the International Boundary Line on Pelly-Yukon and Forty Mile Rivers. In addition to this about eight hundred miles of partially instrumental survey was made, which, when plotted, proves more accurate than I expected. Of this, between five and six hundred miles was over country previously unknown and untravelled by white men. The knowledge gathered by this expedition will enable us to almost complete the map of the extreme north-west portion of our Dominion, as it will serve as a skeleton on which to adjust aright the mass of disjointed information we already possess.

I have the honor to be, Sir,

Your obedient servant,

WILLIAM OGILVIE,

*Dominion Land Surveyor.*

DECLINOMETER READINGS—The readings are taken to the nearest tenth of a division.

The value of a division in arc is  $2' 1.4''$ .

Day.	November.		December.		January.		February.	
	7:30 A.M.	1:30 P.M.	7:30 A.M.	1:30 P.M.	7:30 A.M.	1:30 P.M.	7:30 A.M.	1:30 P.M.
1	285.0	266.0	(269.0)	(268.0)	268.0	264.0	269.0	265.5
2	280.0	268.0	(270.0)	(270.0)	273.0	265.0	273.5	263.0
3	282.0	272.5	276.0	268.0	272.0	269.0	280.0	263.0
4	282.0	271.2	273.5	269.0	273.8	270.0	274.2	260.0
5	285.2	303.5	274.5	267.5	274.5	271.6	275.0	268.0
6	317.8	327.0	274.0	262.0	274.0	272.5	272.0	270.0
7	321.0	314.2	274.0	267.0	282.0	269.0	270.5	270.0
8	312.0	304.0	268.0	267.5	273.5	273.0	275.5	260.0
9	286.2	289.0	270.0	268.0	275.3	272.5	279.0	270.5
10	299.0	294.0	271.0	268.5	275.0	270.0	280.5	269.0
11	284.0	287.0	270.0	269.0	276.0	265.0	279.0	272.0
12	280.0	281.0	270.0	264.0	273.5	269.5	280.0	270.0
13	278.9	271.5	265.5	259.0	275.0	269.0	272.0	268.0
14	277.5	271.5	268.2	264.0	288.0	265.0	271.2	266.0
15	278.0	271.0	272.0	264.0	278.0	270.0	272.0	268.0
16	278.0	273.0	260.0	257.0	273.0	270.0	301.0	266.0
17	280.2	267.0	314.0	259.5	271.5	270.0	288.0	276.0
18	284.0	270.0	271.0	260.0	272.0	268.0	278.0	249.0
19	280.5	274.0	270.0	264.0	270.0	265.5	281.0	267.0
20	267.0	251.5	276.0	265.0	272.0	269.0	282.0	264.0
21	331.0	269.0	272.5	266.0	276.0	262.0	276.0	267.0
22	296.0	270.5	273.0	269.0	274.0	265.0	284.0	262.0
23	274.0	271.0	272.0	267.0	291.0	263.0	274.5	266.0
24	(269.0)	(260.0)	269.0	264.0	287.0	266.0	279.0	267.0
25	(271.0)	(269.0)	272.2	269.0	280.0	265.5	275.0	270.0
26	(273.0)	(272.0)	276.0	268.0	282.0	268.0	278.5	268.5
27	(274.0)	(272.0)	290.0	268.0	270.6	259.5	276.0	270.0
28	(273.0)	(272.0)	278.0	266.0	275.0	262.9	282.0	267.0
29	(273.0)	(272.0)	269.0	262.0	272.0	262.0	280.2	269.0
30	(268.0)	(268.0)	273.5	259.5	270.0	268.0		
31	.....	.....	270.0	262.0	278.0	258.0		

NOTE.—During the last days of November and the first part of December, the fibres suspending the magnet had stretched so much that the bottom of the mirror attached to it touched the bottom of the box, and it could not move freely. These defective readings are put in brackets.

As the north end of the magnet moved to the east, the reading increased, and *vice versa*.

## METEOROLOGICAL Record for the Month of August, 1887.

Day.	Min. Tempera- ture.	Bar- ometer.	Attached Ther- mometer.	Remarks.	Day.	Min. Tempera- ture.	Bar- ometer.	Attached Ther- mometer.	Remarks.
	°	in.	°			°	in.	°	
1	23·7	27·691	52·5		18	38·0	28·417	57·0	
2	42·0	27·856	50·0		19	44·0	Out of Order. do do		
3	21·6	27·936	53·5		20	45·3			
4	49·0	27·913	55·0		21	39·0			
5	32·5	28·054	42·5		22	47·0	28·763	52·0	
6	42·0	28·152	51·0		23	32·3	.....	.....	
7	31·0	28·230	60·0		24	41·2	.....	.....	
8	53·7	27·830	57·0		25	40·5	28·531	57·0	
9	38·8	28·142	44·0		26	46·0	28·434	48·0	
10	32·7	28·286	58·5		27	43·6	28·403	46·0	
11	42·0	28·393	48·5		28	31·3	28·493	44·0	
12	44·0	28·434	52·0		29	33·0	28·387	40·0	
13	41·8	28·440	56·0		30	43·8	.....	.....	
14	38·7	28·468	56·0		31	44·5	.....	.....	
15	43·2	28·366	50·0		Average 39·9		28·269		51·5
16	42·0	28·417	50·0						
17	48·0	28·437	55·0						

NOTE.—This record began 15 miles below Lake Labarge and ended 66 miles below Stewart River.

## METEOROLOGICAL Record for the Month of September, 1887.

Day.	Min. Tempera- ture.	Bar- ometer.	Attached Ther- mometer.	Remarks.	Day.	Min. Tempera- ture.	Bar- ometer.	Attached Ther- mometer.	Remarks.
	°	in.	°			°	in.	°	
1	44·7	.....	.....		17	28·0	29·150	31·0	
2	46·0	.....	.....		18	24·0	28·975	38·0	
3	38·8	.....	.....		19	31·4	28·917	41·0	
4	45·0	.....	.....		20	27·6	29·013	31·0	
5	45·3	.....	.....		21	21·6	29·017	24·0	
6	36·0	.....	.....		22	21·5	28·930	23·3	
7	42·5	.....	.....		23	29·6	28·991	32·3	
8	40·5	.....	.....		24	25·7	28·736	31·0	
9	34·0	28·662	55·0		25	24·8	28·826	34·0	
10	37·0	.....	.....		26	26·4	28·523	31·0	
11	40·0	28·857	56·5		27	24·6	28·440	30·0	
12	31·0	28·863	32·0		28	36·3	28·543	39·0	
13	16·0	.....	.....		29	18·8	28·910	24·0	
14	27·0	.....	.....		30	27·3	28·728	30·0	
15	28·0	.....	.....		Average 31·7		28·836		34·2
16	31·0	28·959	33·0						

NOTE.—First snow in the valley on 23rd inst. Temperature of river water on 30th inst. = 40°

## METEOROLOGICAL Record for the Month of October, 1887.

Day.	Min. Temperature.	Barometer.	Attached Thermometer.	Remarks.	Day.	Min. Temperature.	Barometer.	Attached Thermometer.	Remarks.
	°	in.	°			°	in.	°	
1	25·0	28·684	28·5		18	31·0	28·498	33·5	
2	23·5	28·827	27·4		19	23·0	28·919	24·0	
3	24·0	28·702	28·0		20	26·0	29·124	28·0	
4	26·2	28·625	29·5		21	19·2	29·364	21·8	
5	21·5	28·981	28·7		22	14·5	29·627	17·2	
6	10·8	28·979	12·0		23	4·5	29·430	9·0	
7	18·6	28·605	23·5		24	4·0	28·978	6·0	
8	29·1	28·745	31·7		25	6·5	28·701	12·0	
9	23·5	29·175	24·0		26	16·5	28·387	23·5	
10	23·1	28·935	28·5		27	13·0	28·527	64·0	
11	25·0	29·097	27·0		28	6·8	28·260	70·0	
12	17·8	29·068	19·0		29	8·8	28·564	68·0	
13	24·1	28·452	27·0		30	4·8	28·913	70·0	
14	23·8	28·529	27·0		31	13·0	28·813	70·0	
15	18·9	28·759	26·0						
16	24·0	28·555	37·5						
17	24·5	28·389	25·0						
						Average. 18·5	28·813	31·2	

NOTE.—First ice running in river on 21st inst.

## METEOROLOGICAL RECORD for the Month of November, 1887.

Day.	Min. Temperature.	Barometer, 7.30 A.M.	Attached Thermometer.	Barometer, 1.30 P.M.	Attached Thermometer.	Day.	Min. Temperature.	Barometer, 7.30 A.M.	Attached Thermometer.	Barometer, 1.30 P.M.	Attached Thermometer.
	°	in.	°	in.	°		°	in.	°	in.	°
1	— 1·5	28·931	67·0	28·933	77·0	17	1·0	28·739	67·5	28·894	68·5
2	— 0·5	29·061	68·0	28·964	71·0	18	— 0·5	29·024	63·0	28·948	66·0
3	16·0	28·300	66·0	.....	.....	19	—12·5	28·820	60·5	28·910	67·0
4	14·5	28·356	61·0	28·415	68·0	20	— 2·0	29·154	59·0	29·189	63·0
5	— 1·0	28·679	65·0	28·672	76·0	21	—12·8	29·047	61·0	29·030	64·0
6	2·8	28·475	64·0	28·520	79·5	22	10·5	28·927	64·0	28·997	58·5
7	—17·5	28·655	66·0	28·650	73·0	23	10·0	29·345	71·5	29·548	75·0
8	— 2·2	28·626	65·0	.....	.....	24	—18·5	29·649	69·0	29·623	68·0
9	— 4·0	28·479	62·5	28·486	71·0	25	—17·0	29·521	68·0	29·471	71·0
10	—20·8	28·711	55·0	28·803	72·0	26	— 5·0	29·288	67·0	29·230	70·0
11	—22·5	29·000	63·5	29·020	71·5	27	— 1·0	29·159	72·5	29·136	64·0
12	—14·0	28·827	61·5	28·850	73·0	28	3·0	29·075	70·0	29·054	60·0
13	—10·5	28·664	61·8	28·692	70·5	29	5·0	29·374	70·5	29·427	68·0
14	—24·1	28·884	59·5	28·952	70·5	30	—16·5	29·524	65·5	29·499	67·0
15	—10·8	28·980	60·0	29·030	68·0						
16	— 0·2	28·926	64·0	28·856	75·0						
							Average — 5·1	28·940	64·6	28·993	69·5

NOTE.—Ice set in the river on the 15th inst., at 10 p.m.

## METEOROLOGICAL Record for the Month of December, 1887.

Day.	Minimum Temperature.	1.30 P. M.	Barometer, 7.30 A. M.	Attached Thermometer.	Barometer, 1.30 P. M.	Attached Thermometer.	Day.	Minimum Temperature.	1.30 P. M.	Barometer, 7.30 A. M.	Attached Thermometer.	Barometer, 1.30 P. M.	Attached Thermometer.
	°	°	in.	°	in.	°		°	°	in.	°	in.	°
1	-16.0	...	29.357	67.0	29.363	73.0	18	-55.1	-42.5	29.624	57.0	29.557	62.0
2	-27.0	24.0	29.561	62.0	29.603	70.0	19	-23.0	-14.0	29.300	61.5	29.200	68.0
3	-42.5	38.0	29.680	67.0	...	...	20	-6.0	10.5	28.637	63.0	28.650	64.0
4	-41.0	36.0	29.503	57.0	29.493	66.0	21	* 3.5	-6.0	28.849	61.5	29.025	62.5
5	-43.5	41.0	29.537	59.0	29.544	64.0	22	-27.0	-24.0	29.259	57.0	29.247	66.0
6	-46.3	42.5	29.331	62.0	29.289	62.0	23	-38.0	-36.5	29.084	52.0	29.204	60.0
7	-48.0	40.0	29.120	61.0	29.081	61.5	24	-41.1	-21.0	29.339	58.5	29.365	66.5
8	-47.3	42.5	29.185	57.0	29.259	63.0	25	-26.5	-17.0	29.324	55.0	29.337	68.0
9	-45.5	28.0	29.267	63.5	29.250	67.0	26	-23.0	-23.0	29.166	63.0	29.224	63.0
10	-30.0	18.0	28.795	63.0	28.547	67.0	27	-26.0	-27.5	29.633	59.5	29.716	62.0
11	-15.0	17.5	28.347	57.0	28.399	69.0	28	-41.0	-40.0	29.716	55.0	29.678	64.0
12	-30.5	32.0	28.834	63.5	29.000	64.0	29	-44.5	-41.5	29.392	55.5	29.326	59.0
13	-53.5	34.0	29.103	61.0	28.820	61.5	30	-32.1	-10.5	28.903	58.0	28.883	65.0
14	-33.5	27.0	28.449	59.0	28.430	66.0	31	-10.5	00.0	28.575	55.0	28.556	64.0
15	-28.0	29.0	28.599	68.0	28.806	71.0							
16	-52.2	49.0	29.062	60.0	29.119	63.0							
17	-51.0	37.0	29.173	63.0	29.277	63.0	Ave.	-33.6	-27.6	29.152	60.0	29.141	64.8

\* At 7.30 a.m. thermometer read 3.5.

## METEOROLOGICAL Record for the Month of January, 1888.

Day.	Minimum Temperature.	1.30 P. M.	Barometer, 7.30 A. M.	Attached Thermometer.	Barometer, 1.30 P. M.	Attached Thermometer.	Day.	Minimum Temperature.	1.30 P. M.	Barometer, 7.30 A. M.	Attached Thermometer.	Barometer, 1.30 P. M.	Attached Thermometer.
	°	°	in.	°	in.	°		°	°	in.	°	in.	°
1	-10.5	0.0	28.610	57.0	28.764	67.0	18	-51.0	-33.8	30.279	57.0	30.265	67.5
2	-00.7	1.5	29.122	66.0	29.237	70.0	19	-33.8	-22.0	30.071	58.8	30.048	64.2
3	1.5	9.5	29.445	64.0	29.513	75.0	20	-27.0	-20.0	29.784	62.0	29.743	67.2
4	2.0	12.5	29.303	68.0	29.265	76.0	21	-33.3	-32.0	29.694	59.2	29.671	67.0
5	-12.0	0.5	29.291	65.0	29.302	71.0	22	-37.0	-18.5	29.410	59.0	29.440	63.6
6	-19.0	3.2	29.272	66.0	29.289	69.0	23	-32.5	-19.0	29.276	57.5	29.260	67.0
7	4.0	13.0	29.358	68.0	29.333	78.0	24	-46.0	-31.5	29.120	58.8	29.089	64.0
8	1.0	1.0	29.412	67.0	29.432	70.0	25	-36.0	-14.5	28.819	56.0	28.819	65.4
9	-9.3	3.2	29.184	66.0	29.289	69.0	26	-20.3	-14.5	28.661	57.0	28.597	66.0
10	* 1.0	-3.0	29.284	66.5	29.120	75.0	27	-36.0	-23.7	28.341	56.0	28.317	60.0
11	-41.0	-41.0	30.014	66.0	30.107	65.0	28	-38.8	-22.5	28.670	52.0	28.689	58.0
12	-41.0	-30.5	30.186	65.0	30.190	68.0	29	-37.8	-37.5	28.937	48.0	29.053	66.0
13	-32.0	-9.5	29.175	62.5	30.004	70.0	30	-53.0	-40.5	29.091	51.5	29.031	62.0
14	-9.0	-2.5	29.777	72.5	29.679	69.0	31	-53.5	-38.5	29.309	52.0	29.459	61.0
15	-22.0	-11.0	29.627	63.0	29.559	68.0							
16	-11.5	-8.0	29.784	62.5	29.914	68.0							
17	-49.5	-46.5	30.118	58.5	30.198	69.5	Ave.	-25.3	-15.3	29.368	60.9	29.409	67.6

\* At 7.30 a.m. thermometer read 1.0.

## METEOROLOGICAL Record for the Month of February, 1888.

Day.	Minimum Tem- perature.	1:30 P.M.	Barometer, 7:30 A.M.	Attached Ther- mometer.	Barometer, 1:30 P.M.	Attached Ther- mometer.	Day.	Minimum Tem- perature.	1:30 P.M.	Barometer, 7:30 A.M.	Attached Ther- mometer.	Barometer, 1:30 P.M.	Attached Ther- mometer.
	°	°	in.	°	in.	°		°	°	in.	°	in.	°
1	-52.7	-39.5	29.757	51.0	29.749	59.0	17	-15.0	-0.5	28.817	65.0	28.773	66.0
2	-39.5	-7.5	29.379	55.5	29.415	64.5	18	-3.8	14.0	28.712	62.0	28.699	74.0
3	-22.5	-16.5	29.539	63.5	29.480	69.0	19	3.8	5.5	28.451	77.0	28.540	74.0
4	-18.5	-9.7	29.153	54.5	29.039	65.6	20	-6.5	-5.0	28.677	64.5	28.856	71.0
5	-9.8	-5.5	29.223	54.7	29.290	67.0	21	-10.2	-5.4	28.709	62.0	28.683	71.0
6	-6.1	2.5	28.947	60.0	28.896	66.0	22	-16.0	-14.5	28.844	62.0	28.940	69.0
7	1.0	7.0	28.656	61.7	28.774	65.0	23	-21.2	-11.0	29.274	64.0	29.373	72.0
8	2.2	16.0	28.901	59.0	28.956	67.0	24	-35.0	-4.0	29.200	67.0	29.112	72.0
9	*10.5	-14.0	28.993	67.0	28.996	70.0	25	-4.0	15.5	29.039	69.0	28.920	73.0
10	-4.5	-4.5	28.981	60.5	29.030	71.0	26	-2.0	3.5	28.777	65.0	28.974	70.0
11	-26.5	-16.8	29.025	59.0	29.050	67.0	27	-11.0	9.3	29.325	64.0	29.364	70.0
12	-39.9	-24.5	29.097	63.0	29.063	72.0	28	-10.0	18.0	29.305	68.0	29.140	73.0
13	-46.8	-31.5	29.352	56.0	29.354	67.0	29	11.2	24.2	29.140	70.0	29.236	74.0
14	-47.0	-8.0	29.085	57.0	28.983	71.0							
15	-44.5	-24.5	28.795	58.0	28.883	69.0							
16	-24.2	2.5	28.758	61.5	28.805	69.0	Ave.	-16.8	-4.3	29.031	62.1	29.047	69.2

\* At 7:30 a.m. thermometer read 10.5.

METEOROLOGICAL Record for the Month of March, 1888.

Day.	Min. Tempera- ture.	1:30 P.M.	Barometer, 7:30 A.M.	Tem- perature.	Barometer, 1:30 P.M.	Tem- perature.	Barometer, Evening.	Temper- ature.
	°	°	in.	°	in.	°	in.	°
1	— 2·3	21·2	29·328	65·0	29·240	78·0	.....	.....
2	3·0	23·5	29·197	66·0	29·170	74·0	.....	.....
3	.....	.....	.....	.....	.....	.....	.....	.....
4	.....	.....	.....	.....	.....	.....	.....	.....
5	—10·0	.....	.....	.....	.....	.....	.....	.....
6	.....	.....	.....	.....	.....	.....	.....	.....
7	.....	.....	.....	.....	.....	.....	.....	.....
8	.....	.....	.....	.....	.....	.....	.....	.....
9	—43·0	.....	29·380	40·0	.....	.....	.....	.....
10	—49·7	.....	29·480	25·0	.....	.....	.....	.....
11	—52·7	.....	29·200	28·0	.....	.....	.....	.....
12	—47·0	.....	28·960	30·0	.....	.....	.....	.....
13	—25·0	.....	29·080	40·0	.....	.....	.....	.....
14	—30·7	.....	29·020	30·0	.....	.....	.....	.....
15	—11·0	.....	28·780	40·0	.....	.....	.....	.....
16	— 0·5	.....	28·710	40·0	.....	.....	28·640	10·0
17	— 1·5	.....	28·680	10·0	.....	.....	28·500	14·0
18	—16·0	.....	28·360	16·0	At Noon.	.....	28·300	20·0
19	— 6·7	.....	28·610	00·0	28·480	0·0	28·200	00·0
20	— 3·0	.....	28·220	3·0	27·940	1·0	27·400	20·0
21	6·0	.....	27·300	6·0	27·070	20·0	26·440	15·0
22	—15·7	.....	26·420	—15·7	26·500	26·0	26·500	— 5·0
23	—13·2	.....	26·440	—13·0	.....	.....	26·440	3·0
24	2·0	.....	26·480	2·0	.....	.....	26·640	20·0
25	6·6	.....	26·740	6·0	26·710	30·0	26·640	15·0
26	3·0	.....	26·480	13·0	26·440	30·0	26·540	16·0
27	— 0·7	.....	26·590	6·0	26·660	30·0	26·710	18·0
28	—15·0	.....	26·960	—10·0	26·940	22·0	26·820	20·0
29	17·0	.....	26·800	20·0	.....	.....	27·600	15·0
30	—16·2	.....	27·160	—10·0	27·090	20·0	27·070	25·0
31	22·0	.....	26·940	26·0	26·900	40·0	26·860	25·0

NOTE.—Barometer temperatures taken from atmosphere in ordinary way.  
All readings from the 3rd of March to the 10th of April, inclusive, were taken while on the  
move from the Yukon to Porcupine River.  
Barometer readings taken with an aneroid barometer.

## METEOROLOGICAL Record for the Month of April, 1888.

Day.	Minimum Tem- perature.	1:30 P.M.	Barometer, 7:30 A.M.	Tempera- ture.	Barometer, 1:30 P.M.	Tempera- ture.	Barometer, Evening.	Tempera- ture.
	°		in.	°	in.	°	in.	°
1	7·0	.....	26·93	12·0	26·98	20·0	27·01	6·0
2	-31·6	.....	26·96	-25·0	.....	.....	27·10	10·0
3	-36·5	.....	26·92	-10·0	.....	.....	26·72	0·0
4	-37·7	.....	26·51	-20·0	.....	.....	26·49	12·0
5	-37·3	.....	26·39	-15·0	.....	.....	26·36	0·0
6	-36·7	.....	26·34	7·0	.....	.....	26·64	0·0
7	-17·0	.....	26·56	-4·0	26·59	11·0	26·66	10·0
8	-12·7	.....	26·86	8·0	26·96	17·0	27·00	10·0
9	-34·0	.....	26·92	-25·0	27·08	20·0	27·10	12·0
10	-28·7	.....	27·06	-15·0	27·38	20·0	.....	.....
11	.....	.....	.....	.....	.....	.....	27·26	10·0
12	-24·0	.....	27·23	-15·0	.....	.....	27·30	4·0
13	-19·8	.....	27·39	-10·0	27·46	30·0	27·47	20·0
14	-24·0	.....	27·55	-8·0	27·64	20·0	27·71	18·0
15	-13·0	.....	27·82	-6·0	27·89	26·0	27·93	0·0
16	-17·3	.....	27·94	-7·0	27·96	20·0	27·93	7·0
17	-26·0	.....	27·78	-10·0	.....	.....	27·68	10·0
18	-24·2	30·5	27·68	-8·0	.....	.....	27·76	17·0
19	-18·0	31·5	27·68	-10·0	27·69	36·0	27·66	30·0
20	-19·6	18·0	27·63	10·0	27·68	30·0	27·65	20·0
21	-8·0	7·0	27·73	30·0	27·80	30·0	27·80	30·0
22	-14·2	2·0	27·84	30·0	27·86	34·0	27·84	30·0
23	-30·8	5·0	27·78	20·0	27·74	30·0	27·76	30·0
24	-24·0	22·0	27·76	30·0	27·76	20·0	27·78	34·0
25	-19·5	23·0	27·82	35·0	27·83	30·0	27·84	30·0
26	-9·5	9·0	27·95	30·0	28·00	32·0	28·00	32·0
27	-9·0	9·0	27·98	30·0	27·95	22·0	27·78	22·0
28	-7·6	16·0	27·74	20·0	27·66	30·0	27·62	20·0
29	-10·7	37·0	27·46	30·0	27·46	36·0	27·48	40·0
30	-6·0	40·0	27·62	30·0	27·58	44·0	27·52	38·0

NOTES.—Barometer temperatures taken from atmosphere in ordinary way.

All readings from the 12th of April to the 27th of May, inclusive, were taken at a stationary camp at the head of Porcupine River.

Barometer readings taken with an aneroid barometer.



## METEOROLOGICAL Record for the Month of May, 1888.

Day.	Minimum Tem- perature.	1:30 P.M.	Barometer, 7:30 A.M.	Tempera- ture.	Barometer, 1:30 P.M.	Tempera- ture.	Barometer, Evening.	Tempera- ture.
	°	°	in.	°	in.	°	in.	°
1	19·7	51·2	27·42	30·0	27·35	45·0	27·27	46·0
2	28·0	34·0	27·23	30·0	27·26	40·0	27·30	30·0
3	9·0	.....	27·36	16·0	.....	.....	27·40	30·0
4	6·0	27·5	27·44	20·0	27·49	30·0	27·49	30·0
5	— 1·8	32·0	27·25	20·0	27·18	35·0	27·12	35·0
6	16·8	45·5	27·20	30·0	27·27	40·0	27·31	40·0
7	9·3	46·0	27·33	25·0	27·33	45·0	27·30	40·0
8	17·8	46·0	27·29	30·0	27·28	40·0	27·26	40·0
9	12·7	42·0	27·26	30·0	27·26	44·0	27·26	30·0
10	22·5	43·0	27·30	32·0	27·30	44·0	27·30	40·0
11	18·0	37·0	27·34	30·0	27·35	44·0	27·40	30·0
12	21·5	36·0	27·47	30·0	27·49	40·0	27·46	36·0
13	20·0	39·0	27·45	30·0	27·48	40·0	27·55	36·0
14	21·5	43·0	27·78	36·0	27·83	44·0	27·97	32·0
15	16·3	54·0	28·04	40·0	28·03	50·0	28·00	36·0
16	16·3	52·0	27·90	40·0	27·82	56·0	27·74	36·0
17	17·3	55·0	27·64	30·0	27·68	60·0	27·72	40·0
18	21·0	48·0	27·80	40·0	27·80	50·0	27·77	40·0
19	29·0	35·5	27·70	36·0	27·78	36·0	27·79	25·0
20	15·5	40·0	27·78	32·0	27·75	40·0	27·69	36·0
21	15·0	41·0	27·56	32·0	27·53	40·0	27·46	40·0
22	21·0	44·0	27·52	40·0	27·51	44·0	27·48	30·0
23	23·5	32·0	27·46	33·0	27·48	32·0	27·45	28·0
24	21·0	36·0	27·50	26·0	27·54	38·0	27·49	25·0
25	17·0	39·0	27·47	31·0	27·50	39·0	27·52	30·0
26	31·0	48·0	27·68	44·0	27·67	48·0	27·68	43·0
27	33·0	50·0	27·92	48·0	27·94	50·0	27·92	43·0
28	31·0	54·0	27·97	40·0	28·06	54·0	27·99	41·0
29	29·2	53·0	27·93	35·0	27·90	53·0	28·03	40·0
30	26·2	51·5	27·95	36·0	27·98	56·0	28·28	50·0
31	28·2	43·5	28·41	48·0	28·60	44·0	28·71	41·5

NOTES.—Barometer temperatures taken from atmosphere in ordinary way.  
Barometer readings taken with an aneroid barometer.

## METEOROLOGICAL Record for the Month of June, 1888.

Day.	Minimum Tem- perature.	Barometer, A.M.	Tem- perature	Barometer, 1:30 P.M.	Tem- perature.	Barometer, Evening.	Tem- perature.	Tempera- ture, 1:30 P.M.
	°	in.	°	in.	°	in.	°	°
1	29·1	28·82	46·0	28·88	56·0	28·91	40·0	56·0
2	25·5	28·94	42·0	29·00	42·0	29·12	40·0	42·5
3	20·3	29·12	32·0	29·15	46·0	29·14	52·0	52·0
4	17·0	29·20	35·0	29·27	52·0	29·29	37·0	52·0
5	18·3	29·32	32·0	29·31	56·0	29·30	50·0	56·0
6	22·0	29·28	40·0	29·14	58·0	29·07	40·0	60·0
7	32·0	28·87	40·0	28·82	50·0	28·88	49·0	50·0
8	33·0	28·99	40·0	29·00	50·0	28·99	46·0	52·0
9	27·3	29·09	70·0	29·06	52·0	28·99	40·0	52·0
10	25·0	28·90	56·0	28·87	70·0	28·86	70·0	68·0
11	30·6	28·79	40·0	28·80	60·0	28·84	35·0	62·0
12	21·7	28·91	37·0	28·83	45·0	28·87	34·0	48·0
13	22·4	28·88	34·0	28·83	40·0	28·79	31·0	42·0
14	15·6	28·56	40·0	28·56	50·0	28·45	48·0	50·0
15	17·0	28·37	45·0	28·36	50·0	28·40	38·0	50·0
16	25·3	28·42	38·0	28·57	60·0	28·98	30·0	60·0
17	31·0	29·06	58·0	29·06	60·0	29·09	52·0	60·0
18	33·0	29·18	48·0	29·70	62·0	29·81	48·0	62·0
19	32·0	29·94	50·0	29·96	62·0	29·98	52·0	60·0
20	37·3	30·02	50·0	30·02	70·0	30·00	60·0	72·0
21	47·0	30·10	60·0	29·96	74·0	29·86	60·0	74·0
22	48·0	29·86	62·0	29·83	71·0	29·87	50·0	71·0
23	40·0	29·87	60·0	29·88	70·0	29·91	45·0	71·0
24	42·0	29·99	56·0	30·01	70·0	30·08	50·0	54·0
25	43·0	30·12	54·0	30·14	58·0	30·10	53·0	58·0
26	43·0	30·12	60·0	30·01	56·0	29·96	52·0	56·0
27	42·0	29·99	42·0	29·93	50·0	29·86	64·0	56·0
28	42·3	29·85	42·0	29·86	54·0	29·86	48·0	54·0
29	42·0	29·79	55·0	29·84	56·0	29·84	49·0	56·0
30	50·0	29·86	55·0	29·85	58·0	29·84	43·0	58·0

NOTES.—Barometer temperatures taken from atmosphere in ordinary way.  
Barometer readings taken with an aneroid barometer.

## METEOROLOGICAL Record for the Month of July, 1888.

Day.	Min. Tempera- ture.	1:30 P.M.	Barometer Readings.						Water Ch.
			7:30 A.M.	Tempera- ture.	1:30 P.M.	Tempera- ture.	Evening.	Tempera- ture.	
	°	°	in.	°	in.	°	in.	°	in.
1	34·5	63·0	29·84	60·0	29·80	63·0	29·74	48·5	3·0 +
2	34·0	36·0	29·83	42·0	29·88	36·0	29·90	38·0	7·0 +
3	25·0	54·0	29·95	44·0	29·95	50·0	29·94	47·0	1·6 +
4	38·5	68·0	29·99	46·0	29·98	68·0	29·95	50·0	1·0 +
5	34·2	69·0	30·02	61·0	29·86	69·0	29·99	50·0	1·5 +
6	35·0	70·0	30·00	61·0	30·01	70·0	29·97	51·0	2·2 +
7	48·0	72·0	30·00	56·0	29·96	72·0	29·89	54·0	1·5 +
8	50·8	68·0	29·81	62·0	29·70	68·0	29·65	55·0	1·0 +
9	51·4	68·0	29·58	60·0	29·50	68·0	29·44	55·0	3·4 +
10	48·0	48·0	29·48	52·0	29·52	48·0	29·62	48·0	3·5 +
11	46·0	70·0	29·78	58·0	29·82	70·0	29·82	48·0	6·9 +
12	46·0	68·0	29·80	64·0	29·78	68·0	29·66	52·0	2·3 +
13	42·4	78·0	29·74	60·0	29·76	72·0	29·80	60·0	0·5 +
14	52·0	78·0	29·70	65·0	29·71	72·0	29·72	62·0	1·5 +
15	50·0	68·0	29·80	66·0	29·76	70·0	29·68	52·0	2·7 *
16	43·6	69·0	29·82	60·0	29·68	70·0	29·72	58·0	7·0 *
17	48·5	70·0	29·72	62·0	29·68	70·0	29·61	52·0	2·0 *
18	52·0	61·0	29·69	60·0	29·70	60·0	29·73	60·0	0·7 *
19	48·6	67·0	29·86	63·0	29·89	65·0	29·91	54·0	5·0 *
20	48·0	72·0	30·00	60·0	29·98	70·0	29·96	61·0	36·0 *
21	49·5	76·0	30·04	54·0	30·02	76·0	30·00	60·0	2·1 +
22	52·0	66·0	30·02	.....	30·02	66·0	30·02	58·0	16·0 +
23	50·5	70·0	30·05	60·0	29·98	70·0	29·94	60·0	13·0 +
24	51·7	68·0	29·94	61·0	29·91	68·0	29·86	62·0	6·0 +
25	54·0	62·0	29·82	62·0	29·82	62·0	29·83	55·0	3·0 +
26	46·7	55·0	29·87	54·0	29·87	55·0	29·96	50·0	4·6 +
27	44·0	58·0	30·06	50·0	30·06	58·0	30·07	48·0	1·0 +
28	45·0	51·0	30·06	56·0	29·98	70·0	29·86	58·0	1·0 *
29	44·0	75·0	29·75	65·0	29·62	75·0	29·58	58·0	3·0 +
30	52·0	62·0	29·60	58·0	29·64	62·0	29·68	50·0	5·0 +
31	42·0	45·0	29·70	43·0	29·80	45·0	29·84	45·0	2·0 +

NOTES.—Barometer temperatures taken from atmosphere in ordinary way. Total fall 18·2.  
Barometer readings taken with an aneroid barometer.

\* Rise.

+ Fall.

## METEOROLOGICAL RECORD for the Month of August, 1888.

Day.	Min. Tempera- ture.	1. 30 P.M.	Barometer Readings.						Water Ch.
			7. 30 A.M.	Tempera- ture.	1. 30 P.M.	Tempera- ture.	Evening.	Tempera- ture.	
	°	°	in.	°	in.	°	in.	°	in.
1	33·2	64·0	29·98	48·0	29·98	64·0	29·97	49·0	0·0
2	36·3	68·0	29·97	52·0	29·91	68·0	29·82	48·0	0·5 *
3	34·0	70·0	29·80	58·0	29·66	70·0	29·62	56·0	3·7 †
4	50·0	68·0	29·71	59·0	29·80	68·0	29·87	52·0	2·1 †
5	49·0	76·0	29·90	51·0	29·85	76·0	29·82	55·0	0·6 †
6	39·5	66·0	29·76	52·0	29·71	66·0	29·80	51·0	1·5 *
7	49·0	58·0	29·99	50·0	30·05	58·0	30·00	50·0	1·7 †
8	36·0	60·0	29·95	44·0	29·80	60·0	29·75	50·0	0·6 †
9	47·5	56·0	29·50	50·0	29·54	56·0	29·56	52·0	0·0
10	50·0	52·0	29·78	50·0	29·96	52·0	30·04	55·0	0·0
11	32·7	66·0	30·04	45·0	29·90	66·0	29·86	51·0	0·6 †
12	45·0	66·0	29·86	52·0	29·87	66·0	29·85	55·0	1·1 *
13	50·5	68·0	29·80	54·0	29·77	68·0	29·76	52·0	3·0 †
14	49·5	66·0	29·70	52·0	29·69	66·0	29·68	58·0	2·0 †
15	54·0	68·0	29·66	61·0	29·68	66·0	29·69	52·0	1·0 †
16	45·8	70·0	29·72	52·0	29·58	70·0	29·50	60·0	1·5 †
17	49·6	70·0	29·48	60·0	29·30	70·0	29·23	52·0	0·6 †
18	50·0	72·0	29·20	52·0	29·13	72·0	29·13	60·0	1·1 †
19	48·7	84·0	29·20	56·0	29·22	84·0	29·30	60·0	0·8 †
20	38·2	86·0	29·40	40·0	29·44	86·0	29·30	55·0	2·0 †
21	43·0	66·0	29·34	55·0	29·40	66·0	29·46	50·0	0·8 †
22	36·5	70·0	29·52	40·0	29·48	72·0	29·46	52·0	1·4 †
23	40·0	68·0	29·47	50·0	29·48	68·0	29·48	52·0	0·9 †
24	42·0	70·0	29·42	50·0	29·46	69·0	29·44	60·0	1·0 †
25	46·0	72·0	29·44	60·0	29·47	70·0	29·44	61·0	0·6 †
26	45·0	66·0	29·42	60·0	29·34	65·0	29·35	62·0	1·0 †
27	44·0	55·0	29·36	55·0	29·33	55·0	29·30	50·0	0·5 †
28	46·5	68·0	29·24	48·0	29·30	66·0	29·36	50·0	0·5 †
29	31·8	62·0	29·52	40·0	29·60	62·0	29·59	45·0	0·6 †
30	32·7	68·0	29·57	40·0	29·45	68·0	29·50	52·0	1·0 †
31	37·0	68·0	29·56	52·0	29·56	66·0	29·50	52·0	1·0 †
Average	43·0	67·0	29·62	51·0	29·60	67·0	29·59	53·0	29·0 †

NOTES.—Barometer temperatures taken from atmosphere in ordinary way.  
Barometer readings taken with an aneroid barometer.

\* Rise.

† Fall.

METEOROLOGICAL RECORD for the Month of September, 1888.

Day.	Min. Tempera- ture.	Barometer, 7.30 A.M.	Tempera- ture.	Barometer, 1.30 P.M.	Tempera- ture.	Barometer, Evening.	Tempera- ture.	Water Ch.
	°	in.	°	in.	°	in.	°	in.
1	41·5	29·30	45·0	29·36	68·0	29·40	56·0	0·0
2	46·0	29·53	68·0	29·67	66·0	29·60	50·0	1·0+
3	42·0	29·54	55·0	29·56	68·0	29·46	55·0	0·0
4	47·0	29·23	60·0	29·15	68·5	29·05	56·0	1·0+
5	51·0	29·00	53·0	28·97	67·0	29·04	55·0	0·5+
6	47·6	29·10	48·0	29·14	62·0	29·21	52·0	0·6+
7	51·0	29·25	54·0	29·26	62·0	29·27	50·0	0·5+
8	52·0	29·30	53·0	29·32	61·0	29·32	50·0	0·7+
9	49·0	29·40	52·0	29·42	60·0	29·40	50·0	0·6+
10	48·0	29·52	50·0	29·42	55·0	29·30	50·0	1·0+
11	47·0	29·10	.....	29·01	56·0	28·96	54·0	0·6+
12	47·0	29·00	48·0	29·03	61·0	28·97	52·0	0·7+
13	48·0	29·06	49·0	29·08	64·0	29·11	52·0	0·8+
14	37·7	29·17	42·0	29·20	65·0	29·22	51·0	0·5+
15	44·0	29·16	49·0	29·10	70·0	29·01	56·0	.....
16	56·0	28·98	62·0	28·95	78·0	28·92	55·0	.....
17	51·5	28·79	54·0	28·81	72·0	28·29	62·0	.....
18	52·0	28·87	56·0	29·94	60·0	29·16	50·0	.....
19	37·0	29·28	38·0	29·19	62·0	29·05	55·0	.....
20	44·0	28·88	50·0	28·87	66·0	28·87	56·0	.....
21	51·0	28·91	52·0	28·94	62·0	29·02	50·0	.....
22	38·0	29·10	42·0	29·25	58·0	29·31	45·0	.....
23	35·0	29·35	40·0	29·50	48·0	29·65	46·0	.....
24	33·3	29·59	33·3	.....	.....	29·31	50·0	0·7+
25	42·5	29·42	44·0	29·61	48·0	29·60	44·0	0·5+
26	30·8	29·62	40·0	29·63	54·0	29·60	40·0	0·8+
27	29·2	29·54	40·0	29·61	52·0	29·66	40·0	0·5+
28	35·0	29·76	44·0	29·66	50·0	29·61	46·0	.....
29	40·0	29·16	43·0	28·96	54·0	28·90	50·0	.....
30	37·0	29·28	40·0	29·46	52·0	29·45	37·0	.....
Average 43·7		29·24	46·8	29·28	61·0	29·22	50·5	11·0+

NOTES.—Barometer temperatures taken from atmosphere in ordinary way.  
September 16th, temperature of lake water, 53·5°.  
September 30th, temperature of lake water, 48·2°.  
Barometer readings taken with aneroid barometer.  
† Fall.

## METEOROLOGICAL RECORD for the Month of October, 1888.

Day.	Min. Tempera- ture.	Barometer, 7.30 A.M.	Tempera- ture.	Barometer, 1.30 P.M.	Tempera- ture.	Barometer, Evening.	Tempera- ture.	Water Ch.
	°	in.	°	in.	°	in.	°	in.
1	37·0	29·23	42·0	28·99	54·0	28·98	44·0	.....
2	38·0	29·00	38·0	29·20	56·0	29·22	45·0	.....
3	37·5	29·18	40·0	29·17	52·0	29·15	45·0	.....
4	43·0	29·16	45·0	29·14	50·0	29·00	40·0	.....
5	36·3	28·97	40·0	29·00	56·0	29·02	50·0	.....
6	39·0	29·00	42·0	28·95	62·0	28·90	50·0	.....
7	41·0	28·88	60·0	28·84	64·0	28·82	47·0	.....
8	40·0	28·88	43·0			29·00	45·0	2·0†
9	39·0	29·06	44·0	29·09	42·0	29·18	40·0	.....
10	33·0	29·24	40·0	29·26	40·0	29·34	37·0	0·5†
11	33·0	29·34	38·0	29·42	38·0	29·37	36·0	0·2†
12	32·3	29·36	33·0	29·37	39·0	29·34	34·0	.....
13	31·6	29·29	33·0	29·28	45·0	29·26	38·0	.....
14	32·0	29·24	34·0	29·22	35·0	29·34	30·0	.....
15	23·0	29·44	26·0	29·52	34·0	29·50	30·0	.....
16	26·5	29·51	28·0	29·41	35·0	29·26	51·0	.....
17	27·0	29·16	28·0	29·16	33·0	29·20	30·0	.....
18	27·0	29·36	27·0	29·42	32·0	29·42	30·0	.....
19	25·0	29·14	26·0	29·06	34·0	28·98	30·0	.....
20	31·5	28·88	32·0					.....
21	20·8	29·020	47·0	28·996	36·0	29·024	34·0	.....
22	27·0	28·882	58·0	28·992	39·0	28·880	37·0	.....
23	24·6	28·796	51·0	28·846	41·0	28·848	27·0	.....
24	30·8	28·838	52·0	28·828	32·0	28·858	33·0	.....
25	27·0	28·838	52·0	28·866	35·0	28·828	33·0	.....
26	27·0	28·768	51·0	28·812	35·0	28·842	35·0	.....
27	27·0	28·914	51·0	29·056	37·0	29·192	27·0	.....
28	36·0	29·170	51·0	29·144	31·5	28·982	33·0	.....
29	31·0	28·760	53·0	29·064	31·0	29·194	32·0	.....
30	24·5	29·206	57·0	29·126	33·0	29·021	32·0	.....
31	30·0	28·950	51·0	29·074	31·0	29·182	30·0	.....
31	28·9	29·108	50·0	29·032	31·0	28·954	31·0	.....
Average 31·6		29·088	42·0	29·111	40·4	29·099	36·7	2·7†

NOTES.—Barometer temperatures taken from atmosphere in ordinary way.  
 Temperature of river water on the 7th inst., 51°; on the 4th, 43°; and on the 17th, 38°.  
 All below the line were got from Rev. Mr. Reeve at Chipewyan.  
 Barometer readings taken with an aneroid barometer.

\* Rise.

REPORT  
OF THE  
POSTMASTER GENERAL  
FOR THE  
YEAR ENDED 30th JUNE,  
1889.

---

*PRINTED BY ORDER OF PARLIAMENT.*

---



OTTAWA:  
PRINTED BY BROWN CHAMBERLIN, PRINTER TO THE QUEEN'S MOST  
EXCELLENT MAJESTY.

1890.





*To His Excellency the Right Honourable The Lord STANLEY of PRESTON, Governor  
General of Canada, &c., &c.*

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honor to present to Your Excellency the Report of the  
Canada Post Office for the Fiscal Year ended the 30th June, 1889.

All of which is respectfully submitted.

JOHN HAGGART,  
*Postmaster-General*

OTTAWA, 10th January, 1890.



## SCHEDULE.

Accompanying this Report are the following Documents therein referred to:—

	Ontario.	Quebec.	Nova Scotia.	New Brunswick.	Manitoba and N. W. Territories.	British Columbia	Prince Edward Island.
	Page.	Page.	Page.	Page.	Page.	Page.	Page.
Post Office Revenue and Expenditure of the Dominion, for the year ended 30th June, 1889. See page 1.							
Post Office Revenue and Expenditure for the several Provinces of the Dominion during same period .....	2	3	4	5	6	7	8
Mail Subsidies, &c., paid through Post Office Department. See page 9.							
Detail of all payments made and charges incurred for ordinary mail transportation during the year ended 30th June, 1889 .....	11	49	72	90	104	113	117
Charges for conveyance of mails by water during same period .....	46	69	87	101	.....	115	121
Charges for conveyance of mails by railway during same period .....	47	70	88	102	111	116	121
Charges for making and repairing mail bags during same period .....	48	71	89	103	112	116	121
Salaries in Post Office Inspectors' Offices (including Railway Mail Service) .....	122	145	157	161	166	170	172
Salaries in City Post Offices organized by Department....	131	150	159	163	167	170	172
Account of travelling expenses incurred in the service of the Post Office Department for the said year.....	173	174	175	175	176	176	177
Account of sums paid in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department for the said year .....	178	181	183	184	185	186	187
Account of sums paid for Rents and Taxes on account of the Post Office Department for the said year.....	188	188	.....	.....	.....	188	.....
Report, in detail, of the expenditure of the Department for Stationery, Printing and Advertising for the said year	189	191	192	193	194	195	195
Account of sums paid for miscellaneous disbursements on account of the Post Office Department for the said year	196	199	201	202	203	204	205
Showing the Money Order Offices in operation, the number and amount of orders issued and paid the commission thereon; gross postal revenue; and compensation, salary and allowances paid, to the Postmaster at each office, respectively, during year ended 30th June, 1889	206	219	224	228	231	233	234

---



---

SCHEDULE—*Concluded.*


---



---

	Page.
Statement of Post Office Savings Bank transactions during year ended 30th June, 1889, and of total amount due to depositors at the latter date.....	235
Analysis of the Money Order business of the Dominion for year ended 30th June, 1889 .....	236
Statement showing losses sustained in collecting Post Office Revenue and conducting Money Order and Savings Bank systems in Dominion of Canada brought to account during year ended 30th June, 1889 .....	237
Report of all cases occurring within the year ended 30th June, 1889, of abstraction from, or loss of, letters containing money, sent through the Post Office in Canada ; showing the particulars of each case, and stating the result of the proceedings instituted therein by the Department.....	239
Recapitulation .....	270
Statement of Dead Letters :—	
Table I, showing the total numbers of letters of all kinds received, and the disposition made of them .....	272
Table II, showing the number of letters received containing money or other articles of value, and the disposition made of them .....	278

---

ERRATA IN DETAILS OF MONEY ORDER COMMISSIONS.

---

Page 218, add Kingston, 10c., making \$44,294.09.

Page 227, add Halifax, \$100, making \$13,046.42.

Page 223, add East Selkirk, 9c., making \$4,298.21.

POST OFFICE DEPARTMENT,  
OTTAWA, 2nd January, 1890.

To the Honorable JOHN HAGGART,  
Postmaster General.

SIR,—In submitting the usual Returns of the business of the Post Office in Canada during the year ended 30th June, 1889, I have the honor to report that the increase in the number of Post Offices in the Dominion was 167—the total number now in operation being 7,838—as against 7,671 last year.

571 miles have been added to the mail routes and the annual travel now amounts to 25,756,678 miles.

The mails conveyed between Canada, Japan and China are steadily increasing in importance, and it is evident that the advantages of this route to Europe *via*. Canada are becoming more generally known and appreciated. A mail recently received at Vancouver contained upwards of 4,000 letters from all parts of China and Japan for Europe, besides a large number for Canada and the United States.

The Post Office Act of last Session increased the limit of weight of a single rate letter from half an ounce to an ounce. The rate upon Drop letters was at the same time fixed at 2 cents per ounce. The rates upon Miscellaneous matter were also readjusted, in order to secure uniformity and to remove certain anomalies which previously existed. The charge for the registration of a letter, parcel, book or other articles of mail matter was also made uniform, and fixed at 5 cents for all classes of matter. The frequent delay consequent upon the prepayment of a wrong registration fee will no longer take place.

Through the courtesy of the Imperial Post Office an arrangement has been made by which parcels may now be received from, or forwarded (*via* England) to all countries with which the United Kingdom has established a Parcel Post. The steady increase in the number of parcels received and sent shows that the facilities afforded by the Parcel Post System are becoming more generally known and more largely availed of.

Negotiations are in progress for an exchange of Parcels between Canada and Japan and between Canada and the Leeward Islands.

The following tables show the operations of the Department during the period covered by the statements.

TABLE showing the Number of Post Offices, Extent of Mail Travel, Number of Letters and Newspapers, &c., in the Dominion of Canada, for the Year ended 30th June, 1889.

Estimated Number of Letters, Post Cards, Newspapers, &c., sent by Post in 1889.												
Extent of Mail Service.												
1st November 1889. — Number of Post Offices.	1889. — Number of Miles of Post Route.		1880. — Annual Mail Travel, in Miles.		Letters.	Post Cards.	Regis- tered Let- ters.	Free Letters.	Newspapers and Periodicals. — Number Posted otherwise than from Office of Publication.	Number of Books, Circulars, Samples and Patterns and other Mis- cellaneous Articles.	Number of Parcels by Parcel Post.	Number of Closed Parcels for the United Kingdom.
Provinces and Territories.												
Ontario.....	2,971	18,589	12,040,459	49,887,000	12,671,000	2,084,000	2,908,000	6,121,000	11,137,000	288,000	8,500	
Quebec .....	1,423	11,799	5,433,443	22,437,000	3,811,000	824,000	437,000	4,136,000	4,553,000	122,000	1,300	
Nova Scotia .....	1,399	8,567	3,112,295	6,721,000	1,266,000	198,000	146,000	702,000	486,000	21,000	2,400	
New Brunswick.....	1,085	5,317	2,193,156	5,173,000	813,000	146,000	127,000	530,000	318,000	30,000	900	
Prince Edward Island.....	315	1,291	513,285	1,114,000	143,000	37,000	29,000	106,000	83,000	5,000	200	
British Columbia.....	144	4,870	737,814	2,126,000	131,000	65,000	76,000	191,000	123,000	9,000	900	
Manitoba .....	346	6,402	1,666,226	5,210,000	520,000	295,000	149,000	483,000	353,000	20,000	1,200	
North-West Territories .....	155											
Total .....	7,838	56,835	25,756,678	92,668,000	19,355,000	3,649,000	3,872,000	12,269,000	17,053,000	504,000	15,400	

Railway Mail Service has been established on the line of the Canadian Pacific Railway between Agnes, in the Province of Quebec, and Mattawamkeag, in the State of Maine, a distance of 160 miles, thus forming a direct connection between the Eastern Townships of Quebec and the Province of New Brunswick, and largely diminishing the time required for the transmission of correspondence between Montreal and the Western portions of the Dominion and St. John and Halifax.

A Mail Service by Railway has also been established between Chatham, New Brunswick, and Fredericton, by the Northern and Western Railway, thus affording the means of direct postal intercourse between the Northern Counties of New Brunswick and the Capital of the Province.

Additional service has also been given over several small sections of existing railways, making a total of 355½ additional miles of Railway Mail Service.

Mails are now carried over 11,510½ miles of Railway in Canada.

STATEMENT of distance travelled daily with Mails, on each Railway in Canada, in October, 1889.

Name of Railway.	Actual length of Railway in Miles.	Daily Service by Travelling Post Office.		Daily Service by Bags in charge of Company's Servants. Distance in Miles.
		No. of Postal Cars on Road.	Distance Travelled in Miles.	
Intercolonial.....	922	11	3,120	905
Halifax and Annapolis.....	116	1	260	142
Western Counties.....	67	1	134	.....
Cumberland Railway and Coal Company.....	32	.....	.....	64
Prince Edward Island.....	208½	1	234½	460½
New Brunswick and Prince Edward Island.....	36	.....	.....	72
Albert.....	48	1	96	.....
Elgin Branch.....	27	.....	.....	54
Shore Line (formerly Grand Southern).....	82½	.....	.....	165
New Brunswick and Canada.....	312½	3	562	856½
Kent Northern.....	27	.....	.....	54
Chatham Branch.....	9	.....	.....	54
Northern and Western.....	108	.....	.....	234
Caraquet.....	65	.....	.....	130
Quebec and Lake St. John.....	177	2	354	.....
Grand Trunk.....	2,915½	44	7,199	7,824½
Quebec Central.....	138	2	286	.....
Massawippi.....	38	1	76	70
Hereford.....	6½	.....	.....	13½
Vermont Central (in Canada).....	68	2	140	103½
Canadian Pacific:—				
In Ontario and Quebec.....	2,587½	25	5,041½	2,856½
In Manitoba and North-West.....	1,606½	9	3,074½	64½
In British Columbia.....	650½	4	1,284	25½
Great Northern.....	8	.....	.....	16
Canada Atlantic.....	132	1	156	420
Pontiac and Pacific Junction.....	59	1	127	.....
Thousand Islands.....	2	.....	.....	16
Kingston and Pembroke.....	104	2	208	61
Napanee, Tamworth and Quebec.....	28	2	112	.....
Bay of Quinte.....	4	.....	.....	32
Central Ontario.....	104	2	208	30
Canada Southern.....	361½	3	630½	333½
Erie and Huron.....	67	1	134	72
Manitoba and North-Western.....	206	1	149½	22½
North-West Coal and Navigation Company.....	109	.....	.....	218
Esquimalt and Nanaimo.....	78	1	156	.....
	11,510½	121	23,742½	15,369



## RAILWAY MAIL SERVICE.

Since the Return of last year, for October, 1888, Mail Service has been put on 355½ miles of additional Railway Lines, as follows :—

Name of Railway.	Places between which Railways have been opened since October, 1888.	Miles.	Total.
Northern and Western .....	Fredericton, N.B., and Chatham Junction, N.B..		108
Grand Trunk .....	Ste. Martine Junction, Que., and Valleyfield, Que.	19	
do .....	Simcoe, Ont., and Port Rowan, Ont. ....	17½	36½
Hereford .....	Cookshire, Que., and Sawyerville, Que.		6½
Canadian Pacific (Quebec).....	Agnes, Que., and Mattawamkeag, Maine.....	160	
do (Ontario).....	Glenannan, Ont., and Wingham, Ont. ....	4½	164½
Canada Southern.....	Leamington, Ont., and Comber, Ont. ....	13½	28½
Manitoba and North-Western.....	Langenburg and Saltcoats .....		26
			355½

## COMPARATIVE STATEMENT of Railway Mail Service in October, 1889, and October, 1888.

Date.	Miles of Railway in operation on which Mails are carried.	Daily Service by Postal Cars.		Daily Service by Bags in charge of Company's Servants.	Total Distance Travelled.	
		No. of Postal Cars on Railways.	Distance Travelled. Miles.		Daily.	Yearly.
In October, 1889.....	11,510½	121	23,742¾	15,369	39,111¾	12,241,883½
In October, 1888.....	11,251¾	120	22,924¼	13,919¾	36,844¾	11,532,265¾
	258¾	1	817¾	1,449¾	2,267¾	709,617½

A considerable reduction has taken place in the weekly average of Letters and Newspapers delivered by Letter Carriers under the Free Delivery System, owing no doubt to the increase in the rate of postage upon Drop or City letters and the attempts made to establish private deliveries. The illegal character of these private deliveries having been pointed out to the parties engaged therein, they have, it is believed, been entirely discontinued; and the Free Delivery by Letter Carriers will no doubt now return to its normal condition.

### FREE DELIVERY BY LETTER CARRIERS.

ESTIMATE of the Weekly Averages of Letters and Papers delivered by Letter Carriers, under the Free Delivery System, taken in October, 1889.

Office.	City Letters.	Registered Letters.	Other Letters.	Total Letters.	News-papers.	Total Letters and Newspapers.	Letter Carriers	
							Number Employed in Actual Delivery.	Total Number Employed, including Superintendents and Sorters.
Halifax.....	5,880	204	11,558	17,642	9,409	27,051	13	16
Hamilton.....	9,919	599	24,570	35,088	16,122	51,210	30	32
Kingston.....	6,042	279	9,696	16,017	7,669	23,686	8	9
London.....	4,157	583	21,452	26,192	10,247	36,439	20	24
Montreal, including Hoche- laga, Point St. Charles, St. Jean Baptiste and St. Gab- riel.....	42,582	2,327	60,958	105,867	39,214	145,081	61	72
Ottawa.....	11,776	671	17,762	30,209	19,573	49,782	24	26
Quebec and St. Sauveur.....	11,969	882	25,615	38,466	16,775	55,241	19	21
St. John.....	3,058	192	14,612	17,862	9,391	27,253	13	15
Toronto.....	94,770	6,346	162,464	263,580	66,315	329,895	74	88
Victoria.....	639	28	2,832	3,499	2,461	5,960	4	4
Winnipeg.....	3,554	227	9,303	13,084	8,879	21,963	13	16
Totals.....	194,346	12,338	360,822	567,506	206,055	773,561	279	323
Totals in 1888.....	211,156	14,512	355,981	581,649	212,855	794,504	289	336
Increase.....			4,841					
Decrease.....	16,810	2,174		14,143	6,800	20,943	10	13

Upon the above Averages the Total Annual Delivery would be :—

	Letters.	Newspapers.	Total Letters and Newspapers.
In 1889.....	29,510,312	10,714,860	40,225,172
In 1888.....	30,245,748	11,068,460	41,314,208
Decrease in 1889.....	735,436	353,600	1,089,036

In the Statement of Receipts and Issue of Postage Stamps, &c., it will be observed that the Stamps on hand at the close of the last year very largely exceeded the number carried over from the previous year. It was thought prudent to carry a much larger stock than usual, owing to the removal of the establishment of The British American Bank Note Co. from Montreal to Ottawa and the probable delay in procuring stamps during such removal.

Owing to the change in the System of accounts which went into operation on 1st July, 1888, the issue of Postage Stamps, Cards, &c., can no longer be given by Provinces. The total value of the issue for the year ended 30th June, 1889, was \$2,973,507, that for the previous year was \$2,728,026—showing an increase for the present year of \$245,481.

STATEMENT of Receipts and Issue of Postage Stamps, Post Bands, Post Cards and Stamped Envelopes, for the Year ended 30th June, 1889.

RECEIPTS.

DENOMINATIONS.	Stamps on hand from last year.	Received from manufacturers.	Surplus on transactions of the year.	Returned by Post-masters unfit for use.	Returned by Post-masters fit for use.	Total number of stamps, &c., to be accounted for.	Amount to be accounted for.
							\$ cts.
$\frac{1}{2}$ cent. ....	135,800	475,000	.....	2,234	200	613,234	3,066 17
1 do .....	5,851,000	40,300,000	.....	41,627	62,900	46,255,527	462,555 27
2 do .....	1,348,600	3,050,000	.....	16,035	26,100	4,440,735	88,814 70
3 do .....	11,627,000	58,100,000	200	48,326	117,800	69,893,326	2,096,799 78
5 do .....	509,300	2,250,000	.....	9,805	7,950	2,777,055	138,852 75
6 do .....	652,200	800,000	.....	1,730	3,250	1,457,180	87,430 80
10 do .....	275,650	100,000	.....	482	100	376,232	37,623 20
12 $\frac{1}{2}$ do .....	607,150	.....	.....	488	.....	607,638	75,954 75
15 do .....	137,750	.....	.....	310	.....	138,060	20,709 00
2 do Registered .....	1,135,850	1,862,500	.....	24,313	31,350	3,054,013	61,080 26
5 do do .....	41,750	662,500	.....	12,644	4,650	721,544	36,077 20
Post Bands .....	108,700	485,000	.....	4,479	1,500	599,679	7,495 98 $\frac{1}{2}$
1 cent Cards .....	2,215,082	16,556,000	.....	24,542	77,658	18,873,282	188,732 82
2 do P. U. ....	23,896	61,000	.....	2,206	4,097	91,199	1,823 98
2 cent Reply Cards .....	56,746	60,500	.....	1,738	2,447	121,431	2,428 62
1 do Envelopes .....	30,058	160,000	.....	2,927	4,064	197,049	2,561 63 $\frac{7}{10}$
3 do No. 1 Envelopes .....	19,618	97,500	.....	2,694	3,420	123,232	4,066 65 $\frac{3}{10}$
3 do No. 2 do .....	31,452	118,000	.....	1,123	1,900	152,475	5,107 91 $\frac{1}{2}$
	24,807,602	125,138,000	200	197,703	349,386	150,492,891	3,321,181 49 $\frac{3}{10}$

STATEMENT of Receipts and Issue of Postage Stamps, &c.—*Concluded.*

## ISSUE.

DENOMINATIONS.	Issued to Post-masters during the year.	Suspense items.	Stamps destroyed as unfit for use.	Stamps on hand 30th June, 1889.	Total number of stamps, &c., thus accounted for.	Amount accounted for.
						\$ cts.
$\frac{1}{2}$ cent.....	535,700		2,234	75,300	613,234	3,066 17
1 do.....	40,873,600		41,627	5,340,300	46,255,527	462,555 27
2 do.....	4,199,200	100	16,035	225,400	4,440,735	88,814 70
3 do.....	65,816,600		48,326	4,028,400	69,893,326	2,096,799 78
5 do.....	2,600,700		9,805	166,550	2,777,055	138,852 75
6 do.....	894,600		1,730	560,850	1,457,180	87,430 80
10 do.....	235,650		482	140,100	376,232	37,623 20
12 $\frac{1}{2}$ do.....			488	607,150	607,638	75,954 75
15 do.....	100,350		310	37,400	138,060	20,709 00
2 do Registered.....	2,808,400		24,313	221,300	3,054,013	61,080 26
5 do do.....	514,700		12,644	194,200	721,544	36,077 20
Post Bands.....	530,400		39,479	29,800	599,679	7,495 98 $\frac{1}{2}$
1 cent Cards.....	18,062,100		24,542	786,640	18,873,282	188,732 82
2 do P. U.....	54,500		2,206	34,493	91,199	1,823 98
2 cent Reply Cards.....	103,900		1,738	15,793	121,431	2,428 62
1 do Envelopes.....	147,000		2,927	47,122	197,049	2,561 63 $\frac{1}{10}$
3 do No. 1 Envelopes.....	99,300		2,694	21,238	123,232	4,066 65 $\frac{1}{2}$
3 do No. 2 do.....	112,600		1,123	38,752	152,475	5,107 91 $\frac{1}{4}$
	137,689,300	100	232,703	12,570,788	150,492,891	3,321,181 49 $\frac{3}{4}$

Value of the issue during the year, to 30th June, 1889 (which cannot be now given in Provinces), \$2,973,507.

The total stamp issue of the previous year was \$2,728,026, showing a comparative increase in issue for the present year of \$245,481.

The increase in the amount of the registration fee from 2 cents to 5 cents authorized by the Post Office Act of 1889 has been followed by the introduction of the improved system of registration, or rather of the treatment of registered correspondence, framed in strict accordance with the instructions given by yourself, admirably detailed in the accompanying memo from Mr. M. Sweetman, Chief Post Office Inspector :—

POST OFFICE DEPARTMENT, CANADA.

CHIEF P. O. INSPECTOR'S OFFICE

OTTAWA, 2nd Nov., 1889.

Memo. for Postmaster General :—

In accordance with your instructions, I beg, very respectfully, to submit the following statement in reference to the working of the hand-to-hand delivery of Registered Mail Matter, and other improvements recently introduced.

The new system was entered upon on the 1st of August last, and since that date all Registered Matter, passing from one office to another, *via* Railway, has been forwarded in charge of the Railway Mail Clerks. No Registered Matter is now included in through Mails despatched in charge of Train Baggage-men, as formerly, except in a few unimportant cases on railways where Postal Cars are not in use.

The Railway Mail Clerks are required to commence and end their trips, not at the Railway Station, but at the Post Offices, at either end of their routes. Before leaving the Post Office, at the commencement of a trip, they check the Registered Articles entered on the Letter Bill, with the addresses on the Registered Articles which they receive for despatch by their routes. For this Registered Matter they give a receipt to the Despatching Postmaster, in a book which is kept for the purpose, and it is the duty of the Railway Mail Clerks to enclose the Registered Matter in a special bag provided for the purpose, for the safety of which they are held personally responsible.

Wherever practicable, whether at Junction Stations or at Crossing Stations, the Railway Mail Clerks make a personal transfer of the Registered Matter passing from one Postal Car route to another. In some cases, however, owing to close connections, and lack of time, a personal transfer is impracticable; but in such instances the bags containing Registered Matter are accompanied by "Transfer Bills," which are signed by the Despatching Clerk, the person making the transfer, and the Receiving Clerk. It is also required, in these cases, that, where more than one Railway Mail Clerk is on duty, the closing and opening of Registered Bags shall be witnessed by two Clerks.

The Railway Mail Clerks accompany their Mails to the Post Offices at the end of their trips, and obtain receipts for the Registered Matter they deliver.

There is no personal transfer of Registered Mail Matter at the way or Intermediate Stations on a Postal Car route, as that would entail a large additional expenditure, out of all proportion to the general results which would be secured thereby. It is not anticipated, however, that any special difficulty will arise in this connection. I may add that the personal transfers, already arranged for, include all the more important points and places.

The advantages of the new Registered Letter System may be summed up as follows, viz.:—

1st.—It affords increased security to the Registered Mail Matter, in transit, by concentrating the valuable portion of the Mails, and thus enabling those whose duty it is to handle it to keep closer watch and guard over it than was practicable when it was placed in several separate bags for Post Offices and Postal Cars. The new method already indicates that increased care and attention are bestowed upon the treatment of Registered Mail Matter.

2nd.—In the event of a loss, at one of the more important points, there will be little room for doubt in respect to where the responsibility lies: if the person who last receipted for it is unable to show how it was disposed of, he becomes liable for the loss. It is confidently expected that the number of losses of Registered Articles will be largely reduced in the future.

I may further add that with the introduction of the new system for the treatment of Registered Matter opportunity has been taken to make general the following additional plans for giving increased security to ordinary Letter Matter, and for expediting the opening and sortation thereof. Instead of making up separate bags for the several principal offices on a given line of Railway, in which all the Mail Matter therefor is enclosed, the separate bag system, as far as possible, has been abandoned, and the letters for each office are now tied up in face-slipped packages and placed in the bags sent to the Railway Mail Clerks.

The general result of the new method is that an intermediate office now receives from the Railway Mail Clerk one Letter Bag, containing Registered and Ordinary Letters, and a separate sack, or sacks, containing Newspapers and printed Matter,—instead of several bags, made up at various offices, each bag containing Registered and Ordinary Letters, and Newspaper Matter. This not only affords increased security to Registered and Ordinary Letters; but it also largely reduces the number of bags, locks and labels, which have hitherto been required, and lessens the work, and shortens the time, in closing or making up the out-going Mails. The advantages in this connection are as follows:—

1st.—It enables City Postmasters to apportion the work of distribution in such a manner as to secure the handling of the Registered Matter, Ordinary Letters, and Newspapers, each in its own particular branch or section of the Office.

2nd.—It facilitates the sortation, and delivery, in large offices, by enabling the clerks to enter upon the distribution of the Mail Matter immediately on receipt of the Mails, without waiting, as formerly, for the opening and emptying of a large number of Mail Bags, and the somewhat tedious process of separating the several classes of Mail Matter.

3rd.—The outgoing Mails can be closed more rapidly, and more time can be afforded to the public for posting letters.

4th.—It reduces, to a considerable extent, the liability to commit errors in the closing or making up of mails.

With respect to the new method for the treatment of Registered Matter, the only disadvantage is in the shape of delay on lines of railway over which Mails are conveyed, each way, twice daily—once in the Postal Cars, and again in the Baggage Car—affording only one despatch for Registered Matter, instead of two despatches as formerly—consequent upon sending Registered Matter by the Postal Cars only. As set forth in a former Report, there are some offices, Registered Matter for which will necessarily be delayed from twelve to twenty-four hours, by being held over for despatch by Postal Cars. These detentions occur, chiefly, in Western Ontario, say from Toronto westward; but, so far as I am aware, no complaints have been received from the public. It is probable that, in such instances, Registered Matter is now being posted at hours convenient for despatch by the Postal Car trains.

The time is not far off when the question is likely to be presented for consideration, whether double Postal Car services should not be introduced upon some of the railway lines west of Toronto—not on account of the Registered Matter alone—but in view of the increase in all classes of Mail Matter which cannot be so satisfactorily provided for by the despatch of through bags, between the principal offices, in the charge of baggagemen.

In response to a circular letter, recently issued to Post Office inspectors and City Postmasters, on the subject of the recent changes adverted to herein, most of the replies received are favorable, and while, in a few cases, the reports are less favorable, it is obvious that the arguments advanced generally, in respect of delay, are more than met by the advantages pointed out by the majority.

The introduction of the changes above mentioned, affecting so large a number of Post Offices, and Postal Cars, will necessarily require careful watching, and perhaps more or less re-adjustment, in order to secure the measure of efficiency aimed at, within the shortest possible space of time. The use of uniform Registered Letter Package Envelopes of the best possible description, and of a special Registered Letter bag, all of which are now in course of preparation, will add materially to the safety of Registered Articles, and with the other plans introduced for the careful and systematic treatment of this valuable class of Mail Matter, will secure the most satisfactory results.

M. SWEETMAN,  
*Chief Post Office Inspector.*

The number of Registered Letters which passed through the mails of the Dominion during the year ended 30th June, 1889, is estimated at 3,649,000. The number of registered letters estimated to have passed by mail in Canada since 1882 is as follows:—

In 1883.....	2,659,000
“ 1884.....	3,000,000
“ 1885.....	3,000,000
“ 1886.....	3,400,000
“ 1887.....	3,560,000
“ 1888.....	3,580,000
“ 1889.....	3,649,000

During the year ended 30th June, 1889, there were 243 case of abstraction of contents or portions of contents from, or loss of registered letters containing money sent through the mails of the Dominion.

The contents (or portions thereof) in 62 of these cases were, after careful investigation into the circumstances of each case, made good by the officers held responsible for the loss ; 66 letters were stolen whilst in the custody of the Post Office or from mails *en route*, the contents of which were not recovered.

In 32 cases the contents wholly, or in part, were alleged to be missing but no satisfactory evidence to account for the alleged discrepancy was obtainable ; 21 letters were contained in mails or packages stated not to have been received at the offices for which they were intended ; and 47 letters were accidentally destroyed during the course of post.

#### DEAD LETTERS.

893,298 letters, circulars, post cards &c., passed through and were dealt with in the Dead Letter Branch of the Canada Post Office during the year, as shown by the following classification.—

Dead Letters originating in Canada returned as unde- livered by the British Post Office.....	9,194
Dead Letters originating in Canada returned as unde- livered by the United States Post Office.....	98,844
Dead Letters originating in Canada returned as unde- livered by British Colonies and Foreign Countries...	1,141
	<hr/>
	109,179
Less,—Registered Letters included therein and trans- ferred to registered class.....	2,270
	<hr/>
	106,909
Dead Letters, circulars, post cards &c., returned from Canada Post Office.....	660,540
Dead Letters registered being found to contain value.....	16,347
Letters, circulars, post cards, &c., sent to the Dead Letter Office for special reason, such as insufficient address, non-payment of postage, &c.....	109,502
	<hr/>
	893,298
	<hr/>

From communications which have appeared in the Press during the past year there is reason to suppose that a good deal of misapprehension exists with respect to the treatment in the Department of Dead or Returned letters. It may, therefore, be as well to state that letters or packets which cannot be delivered to the person addressed are returned from every Post Office daily, weekly, or monthly, according to the importance of the office, to the Dead Letter Office, from which they are at once sent back to the writer.

No letters which have failed of delivery are destroyed which can be returned to the writers; and in cases where the contents are valuable, or the letter itself appears to be of importance, a record is kept and the letter retained for at least twelve months awaiting a claimant.

In addition to the foregoing, it may also be observed that what are termed "Request Letters," that is, letters passing within the Dominion sent in covers or envelopes having *printed* thereon a request from the sender that the letter, if not delivered or called for at the office addressed within a certain time specified in the request, may be returned to his address, as printed in the said request, are returned to the writer direct as requested.

#### PRINTING AND SUPPLY.

The operations of this branch of the Department have increased of late years to such magnitude that it is thought some details of the work performed may be of interest to the public. The following statements are submitted accordingly :



SUMMARY of the cost of *Printing, Stationery, Mail Bags, Dated Stamps, Scales and Weights, and Miscellaneous Articles*, supplied to the Department at Ottawa, and to the different Provinces of the Dominion, through the Printing and Supply Branch, Post Office Department, from 1st July, 1888, to 30th June, 1889.

	\$	cts.	\$	cts.
Printing, binding, &c. ....			58,407	64
Stationery .....			14,695	46
Mail bags, labels, &c. ....	9,659	08		
do repairing .....	4,640	16		
			14,299	24
Mail locks, keys, lead seals, &c. ....	2,643	75		
do repairing .....	324	04		
			2,967	79
Street letter-boxes .....			307	00
Scales and weights .....			1,808	60
Dated stamps, seals, stamping ink-pads, &c., &c. ....			6,234	03
Material for letter-carriers' uniform .....	3,753	11		
Making up do do .....	4,219	00		
Water-proof coats, capes, helmets, fur caps, &c. ....	2,058	40		
Boots, moccasins, &c. ....	2,431	39		
			12,461	90
Miscellaneous .....			412	29
Total .....			111,593	95

STATEMENT shewing the balance in Stock 30th June, 1888, the balance carried forward 30th June, 1889, and the number and value of *Forms, Envelopes, Books, Labels, &c.*, and *reams of Writing Paper* obtained for and issued to the Postal Service generally through the Printing and Supply Branch, from 1st July, 1888, to 30th June, 1889.

	Forms.	Envelopes	Books.	Cards and Labels.	Writing Paper.	Value.
					Reams.	\$ cts.
Balance in stock, 30th June, 1888 .....	2,130,720	911,202	13,414	239,219	121½	10,708 04
Received from Queen's Printer .....	12,299,399	2,647,580	32,818	2,862,629	223½	58,407 64
Total .....	14,430,119	3,558,782	46,232	3,101,848	345	69,115 68
Issued to the Department at Ottawa .....	373,058	685,552	2,990	24,463	47½	3,746 93
do different Provinces .....	11,646,060	1,476,169	29,433	2,677,877	96	51,836 65
Total Issue .....	12,019,118	2,161,721	32,423	2,702,340	143½	55,583 58
Obsolete articles, destroyed .....	141,123	71,678	897	744		976 02
Balance in stock, 30th June, 1889 .....	2,269,878	1,325,383	12,912	398,764	201½	12,556 08

STATEMENT shewing the balance in stock, 30th June, 1888, the balance carried forward, 30th June, 1889, and the number and value of articles of *Stationery* obtained and issued to the Postal Service generally, through the Printing and Supply Branch, from 1st July, 1888, to 30th June, 1889.

	Books, almanacs and maps.	Envelopes and paper wrappers.	Writing, blotting and wrapping paper (reams).	Tags, cards, labels, &c.	Pens (boxes), penholders, lead pencils and leads for pencils (boxes).	Ink (bottles), mucilage (bottles), &c.	Twine (lbs.).	Sealing wax and gum arabic (lbs.).	Miscellaneous.	VALUE. \$ cts.
Balance in Stock, 30th June, 1888	5	1,675	17			44	192½	13	127	210 97
Received from Stationery Office	1,444	107,024	1,134¾	300,150	13,814	1,828	12,959	2,865	10,167	14,695 46
Total	1,449	108,699	1,151¾	300,150	13,814	1,872	13,151½	2,878	10,294	14,906 43
Issued to the Department at Ottawa	400	38,875	132½	10,300	1,945	486	542½	242	4,457	2,949 04
do Different Provinces	1,045	68,324	1,008¾	298,850	11,869	1,293	12,362	2,616	5,748	11,738 49
Total Issue	1,445	107,199	1,140¾	300,150	13,814	1,779	12,904½	2,858	10,205	14,687 53
Balance in Stock, 30th June, 1889	4	1,500	101½			93	246¾	20	89	218 90

STATEMENT in detail, shewing the number and cost of *Mail Bags* and *Bag Labels*, supplied through the Printing and Supply Branch, to the Department at Ottawa and to the different Provinces, from 1st July, 1888, to 30th June, 1889.

	Leather mail bags and satchels.	Cotton duck mail bags and satchels.	Jute newspaper sacks and linen mail bags.	Reversible leather and other labels.	MAIL BAGS REPAIRED.			VALUE.
					Leather.	Cotton duck and satchels.	Jute newspaper sacks.	
								8 cts.
Department at Ottawa .....		51						34 50
Ontario.....	62	2,241	3,373	2,857	4	1,908	4,000	7,325 44
Quebec.....	62	1,219	398	1,668	2	1,151	4,978	4,287 47
Nova Scotia .....	20	582	54	180	16	27	29	558 85
New Brunswick.....	11	461	99	741	8	24	11	643 21
Manitoba, &c.....		150	36	401	1	51	53	304 14
British Columbia.....		256		133		9		206 06
P. E. Island.....		62		100		58	51	107 94
Total .....	155	5,022	3,960	6,080	31	3,228	9,122	13,467 61

Mail bags and labels are not kept in stock (except 500 newspaper sacks for Montreal and 500 newspaper sacks for Toronto to meet emergencies) but are ordered from the contractors direct, from time to time, as required.

STATEMENT shewing the quantity and value of *Stamping Materials, Scales and Weights, &c., &c.*, in Stock, 30th June, 1888, and ordered and issued through the Printing and Supply Branch, from 1st July, 1888, to 30th June, 1889; also the quantity and value of the same on hand, 30th June, 1889.

	Dating, Rating and other Stamps.	Brass Crown Seals.	Stamping Pads, Cushions, &c.	Tins of Stamping Ink, &c.	Type for Dated Stamps.	Wooden and other Bag Labels.	Letter and Parcel Scales and Weights	Mail Locks, Keys, Lead Bag Seals, &c.	Street Letter Boxes, &c.	Miscellaneous.	Value.
											\$ cts.
Balance in Stock, 30th June, 1888.....	1,985	.....	134	210	5,302	.....	240	17,339	7	17	3,906 84
Received during the year.....	2,884	352	742	298	10,300	16,669	436	303,923	36	108	12,062 77
Total.....	4,869	352	876	508	15,602	16,669	676	321,262	43	125	15,969 61
Issued during the year.....	2,928	352	583	377	12,717	16,669	422	306,001	29	98	12,574 70
Balance in Stock, 30th June, '89	1,941	.....	293	131	2,885	.....	254	15,261	14	27	33,944 91

STATEMENT shewing the quantity and value of *Material, &c., for Letter Carriers' Uniforms* in Stock, 30th June, 1888, and ordered and issued through the Printing and Supply Branch, from 1st July, 1888, to 30th June, 1889; also the quantity and value of material remaining in Stock 30th June, 1889.

	MATERIAL.		GARMENTS.								Value.
	Overcoat Cloth.	Cloth & Serge for Tunics and Trousers	Overcoats.	Tunics.	Trousers.	Brass Coat Buttons, Monograms and Numbers.	Waterproof Coats and Capes.	Cloth Caps, Summer Helmets, &c.	Leather and Rubber Boots & Moccasins	Miscellaneous.	\$ cts.
Balance in Stock, 30th June, 1888.....	303	325	.....	.....	.....	5,727	367	457	...	235	2,734 80
Received during the year.....	345	2,681	144	432	541	2,880	83	793	714	243	12,519 47
Total.....	376	3,006	144	432	541	8,607	452	1,250	714	578	15,254 27
Issued during the year.. ....	358	951	143	431	540	1,842	145	675	712	369	11,536 09
Balance.....	18	2,055	1	1	1	6,765	307	575	2	209	3,718 18
Sold.....	18	2,055	.....	.....	.....	6,320	3	.....	.....	.....	1,544 28
Balance in Stock, 30th June, 1889.....	.....	.....	1	1	1	463	304	575	2	209	2,173 90

---

---

REVENUE AND EXPENDITURE.

The gross Postal Revenue of the year ended 30th June, 1889, was, as shewn by the annexed statements, \$2,984,222,60, an increase of only \$27,621 over the gross revenue of last year ; but, as stated in the report of last year, the changes made in the system of accounting last year make it very difficult to say how far the diminution of revenue for the year ended 30th June last is due to an actual falling off in the receipts for the year, and how much to forestalling of the revenue of this year by forcing collections at the close of the last financial year, which would otherwise have been included in the revenue of the year now under review.

The expenditure for the same period was \$3,746,040.42, leaving a deficiency of \$761,817, as compared with \$854,845 in 1887 and \$911,031 in 1886.

Of this expenditure, however, an amount of \$51,232,32 for transit rates on mail matter for and from Canada, passing through the United States for other countries, from 1st April, 1886, to 31st December, 1887, and a sum of \$27,796 for transit rates on similar matter to 31st December, 1888, is included, the whole of the former amount, and one-half of the latter properly belongs to the expenditure of previous years and would have been so included had the accounts with the United States been adjusted in time. A further sum of \$51,030 was paid to the Intercolonial and Prince Edward Island Railways, being for arrears due on previous accounts.

The transfer to the Finance Department of several subsidies for steamboat service heretofore charged against the Post Office made it necessary to close up the several accounts to 30th June (the Finance Department only taking over the services from the 1st July) for these subsidies, and added about \$5,000 to the expenditure of the Department under the head of Steamboat Service.

Allowance being made for these items of what may be termed extraordinary expenditure, it will be found that the increase in the ordinary expenditure of the Department has not been greater than the increased facilities afforded to the public will justify ; and it must be remembered, that in connection with the Post Office service, reduction of expenditure can only be effected by a diminution of convenience. The Department has to pay the market price, be it high or be it low, for all ordinary mail service, inasmuch as contracts are let by public advertisement and the service awarded to the lowest bidder, as provided by law.

The cost of Railway Mail Service is fixed by Statute.

No large increase in the revenue can be anticipated so long as the Department has to carry vast quantities of printed matter at a very heavy cost, without receiving any remuneration in return.

## MONEY ORDERS.

On the 30th June, 1888, there were 944 post offices in Canada authorized to transact Money Order business ; to these were added during the past fiscal year 59, and of such offices 7 were discontinued, leaving on the 30th June, 1889, the total number of 993 Money Order Offices in operation.

The total number of money orders issued during the year was 673,813, of the value of \$11,265,919.95, being an increase in number of 42,845 and in amount of \$349,302.12 over the year ended 30th June, 1888, and 98,914 in number and \$936,925.44 in amount over the issue of the year 1887.

466,879 of the money orders issued during the past year, amounting to \$8,692,418.91 were payable within the Dominion; and 206,934, representing \$2,573,501.04, were payable in other countries or British Colonies.

Compared with last year, the increase in the amount of local issues is \$171,643.13 and in orders payable abroad \$177,658.90; the increase in money orders issued by other countries and paid in Canada amounts to \$30,933.29.

The total amount received from the Public for Commissions on the 673,813 orders issued during the past year was \$89,377.63, of which sum \$25,513.11 was allowed Postmasters of other than city offices for their share of commission on local orders issued and foreign orders paid, leaving an excess of receipts over expenditure, being the net revenue from fees on money orders, of \$63,864.52.

The Money Order Convention concluded with Japan on the 30th June last came into force on the 1st of October, and gives satisfactory indications that the arrangement will be found to be a great public convenience and materially assist in creating a trade between Japan and Canada.

A copy of the Convention is appended to this report, and in connection therewith it may be remarked that conventions for the direct inter change of money orders have been made between Canada and ten other countries, and money orders may now be procured in Canada for remittances to 73 foreign countries and British possessions, while seven years ago the only countries upon which money orders could be obtained were four, viz., the United Kingdom, British India, the United States and Newfoundland.

The Money Order Offices in operation on the 30th June, 1889, numbered 993; an increase of 46 during the year, the distribution being as follows:—

Ontario.....	524
Quebec.....	160
Nova Scotia.....	136
New Brunswick.....	94
Prince Edward Island.....	10
Manitoba.....	23
North-West Territories.....	20
British Columbia.....	26
	<hr/>
	993
	<hr/>

The accompanying Tables (on preceding pages) exhibit the Money Order transactions, both domestic and foreign, up to the 30th June, 1889. It will be seen that the interchange of Money Orders with other countries was as follows:—

COUNTRY.	ISSUED IN CANADA.		PAYABLE IN CANADA.	
	Number.	Amount.	Number.	Amount.
		\$		\$
*United Kingdom.....	79,297	1,033,331	22,397	364,657
United States.....	118,017	1,391,743	74,851	1,261,103
France.....	2,621	31,719	723	13,833
Germany.....	2,909	30,929	415	10,518
Italy.....	1,227	32,044	41	1,654
Switzerland and Roumania.....	284	3,255	126	2,460
Belgium.....	737	15,876	166	4,937
Newfoundland.....	1,439	24,055	2,597	63,814
Jamaica.....	58	1,101	538	19,847
Australasian Colonies and New Zealand.....	345	9,448	557	14,121
Totals.....	206,934	2,573,501	102,411	1,756,944

\*Including all those British Possessions and a few foreign countries, between which and Canada there is not a direct Money Order Exchange.

TABLE showing the General Operations of the Money Order System in the Dominion of Canada, year by year, from 1st July, 1867, to 30th June, 1889.

Year ended 30th June.	Number of Money Order Offices.	Total Number of Money Orders issued.	Total Amount of Money Orders issued in Canada.		WHERE PAYABLE.				Amount of Orders Issued in other Countries payable in Canada.	Gross Revenue from Fees on Money Orders, profit on Foreign Exchange, &c.		Expenditure for Salaries, Compensation to Postmasters, Printing, Stationery and Miscellaneous.	Losses sustained in conducting the Money Order system.			
			\$	cts.	In Canada.		In other Countries.									
					\$	cts.	\$	cts.								
1868.	515	90,163	3,352,881	40	2,959,762	80	393,118	60	90,579	92	29,942	57	30,635	65	2,355	55
1869.	550	96,627	3,563,644	95	3,193,305	77	370,339	18	100,822	84	30,935	12	32,594	17	3,169	99
1870.	558	110,021	3,910,249	95	3,489,610	00	420,639	95	117,913	89	33,477	71	31,746	97	1,584	74
1871.	571	120,521	4,546,433	85	4,067,735	17	478,698	68	126,694	06	38,495	55	33,225	68		
1872.	634	136,422	5,154,120	13	5,573,019	76	581,100	37	147,230	16	44,682	25	40,366	85		
1873.	644	161,096	6,239,505	86	5,569,298	00	670,266	86	160,695	80	53,019	45	42,271	89		
1874.	662	179,851	6,757,427	17	6,090,172	61	667,254	61	177,501	49	59,263	36	47,362	18		
1875.	687	181,091	6,711,538	98	6,132,094	67	579,444	31	181,091	07	54,360	22	49,416	12		
1876.	736	238,668	6,866,618	24	6,157,813	48	708,805	06	359,314	21	54,809	59	56,269	25		
1877.	754	253,992	6,856,821	13	6,164,825	99	691,995	14	408,285	99	54,847	50	51,740	06		
1878.	769	269,417	7,130,895	77	6,412,576	78	718,318	99	458,745	80	56,847	03	49,112	00		
1879.	772	281,725	7,788,723	29	6,086,521	05	702,202	24	505,833	69	55,008	42	47,222	93		
1880.	775	306,088	7,207,337	06	6,385,210	86	822,126	20	698,651	87	58,276	28	46,287	42		
1881.	786	338,238	7,725,212	66	6,679,547	44	1,045,665	22	1,002,734	96	60,835	25	47,722	80		
1882.	806	372,248	8,354,153	57	7,018,526	04	1,335,627	53	1,194,028	92	65,392	04	52,449	62		
1883.	828	419,613	9,490,899	62	7,634,735	27	1,856,164	35	1,236,274	95	68,485	20	73,035	92		
1884.	866	463,502	10,067,834	85	7,971,919	70	2,095,915	15	1,262,867	31	87,870	31	77,499	12		
1885.	885	499,243	10,384,210	99	8,254,003	12	2,130,207	87	1,185,750	92	73,592	86	83,211	35		
1886.	910	529,458	10,231,189	39	8,146,095	87	2,085,093	52	1,245,957	32	71,734	83	76,216	09		
1887.	933	574,899	10,328,984	51	8,093,886	92	2,235,097	58	1,495,673	58	79,335	99	76,845	15		
1888.	944	630,968	10,916,617	83	8,520,775	78	2,395,842	05	1,726,011	45	81,077	39	83,309	21		
1889.	990	673,813	11,265,919	95	8,692,418	91	2,573,501	04	1,756,944	74	95,147	19	83,309	21		

a. This increase in the cost of management arises from the exhibition, for the first time, as a charge against the Money Order System, of the salaries of Clerks in City Post Offices, engaged exclusively in Money Order duties; also, from the preliminary expenses incurred in organizing Money Order Exchange with a number of additional Countries, as stated in the Report for the year ended 30th June, 1883.

b. Including the amount of the "Void" Orders of all previous years. Henceforward the "Void" Orders are brought to account each year in this column.

c. Including payment for services partly chargeable to preceding year.

\* Under the recently introduced system of accounts, these items can no longer be given separately.





## POST OFFICE SAVINGS BANK.

During the fiscal year 30 new Savings Bank Offices were opened, making 463 as the total number in operation on the 30th of June.

The following figures show the volume and increase of business as compared with the previous year:—

	1888	1889.	Increase.	Percentage of Increase.
Number of offices.....	433	463	30	7
do deposits.....	155,978	166,235	10,257	6 $\frac{3}{4}$
Amount of do.....	\$ 7,722,330	\$ 7,926,634	\$ 204,304	3
Number of withdrawals.....	78,229	84,572	6,343	8
Amount of do.....	\$ 7,514,071	\$ 7,532,145	\$ 18,074	0 $\frac{1}{4}$
Number of new accounts.....	37,515	38,049	534	1 $\frac{1}{4}$
Open accounts on 30th June.....	101,693	113,123	11,430	11
Balance due do.....	\$ 20,689,032	\$ *23,011,422	\$ 2,322,390	10 $\frac{1}{2}$

\* This amount includes \$1,085,979 transferred from the closed Agencies of the Dominion Government Savings Bank, and \$841,921 the accrued interest for the year.

The average amount of each deposit was \$47.67, and of each withdrawal, \$89.06; and the average balance at the credit of each depositor's account on the 30th of June was \$203.41. The rule limiting the amount which may be annually deposited to \$300 has, since its adoption in 1887, been rigidly enforced.

In accordance with the policy of the Government adopted in 1888, of closing, as the circumstances in each case might suggest, the agencies of the Dominion Government Savings Bank and of placing the depositors' accounts under the management of the Post Office Savings Bank, the following transfers have been effected:—

Agency.	Date of Transfer.	No. of Accounts Transferred.	Amount.
			\$ cts.
New Westminster, B.C. ....	June 1, 1888...	723	217,385 10
Digby, N.S. ....	July 1, 1888...	571	151,691 27
Moncton, N.B. ....	Aug. 1, 1888...	772	293,279 85
Hillsborough, N.B. ....	Sept. 1, 1888...	288	76,425 90
Quaco, N.B. ....	Nov. 1, 1888...	112	20,341 31
Windsor, N.S. ....	Jan. 1, 1889...	1,219	544,241 39
Totals .....		3,685	1,303,364 82

The number of claims to moneys left by deceased depositors, in which the evidence admitted of settlement, was 748. Fourteen of the cases required reference to the Minister of Justice.

As in former years, a tabular statement is appended, showing the growth and progress of the Post Office Savings Bank since its establishment in 1868.

STATEMENT of the Business of the POST OFFICE SAVINGS BANK, Canada, year by year, from 1st April, 1868, to 30th June, 1889.

PERIOD.	Number of Post Office Savings Banks at close of period.	Number of deposits received during period.	Total amount of deposits received during period.	Average amount of each deposit received during period.	Amount of depositors' accounts transferred from Dominion Government Savings Bank during period.	Number of withdrawals during period.	Total amount withdrawn during period.	Average amount of each withdrawal during period.	Number of accounts opened during period.	Number of depositors' accounts transferred from Dominion Government Savings Bank during period.	Number of accounts closed during period.	Number of accounts remaining open at close of period.	Cost of Maintaining the Post Office Savings Bank.					Total Amount standing to the credit of all Open Accounts, inclusive of Interest allowed, at close of period.	Average amount standing to credit of each Open Account at close of period.
													Total Expenses of Management, including Salaries, Compensation to Postmasters, Inspection, Printing, Stationery, &c.	Average cost of each Transaction, viz: of each Deposit or Withdrawal.	Percentage of Cost of Management to Balance due to Depositors.	Losses sustained.	Interest allowed to Depositors.		
			\$	\$	\$	*	\$	\$					\$	\$		\$	\$	\$	\$
Three months ended 30th June, 1868 .....	81	3,247	212,507	65.44	.....	166	8,857.48	53.35	2,146	.....	44	2,102	8,389.43	.....	.....	.....	939.37	204,588.89	97.33
Year ended 30th June, 1869 .....	213	16,653	927,885	55.71	.....	4,787	296,754.35	61.99	6,429	.....	1,319	7,212	5,808.14	0.23 <sub>10</sub>	0.67	.....	21,094.72	856,814.26	118.80
Year ended 30th June, 1870 .....	226	24,994	1,347,901	53.93	.....	9,478	664,555.51	70.11	7,823	.....	2,857	12,178	8,128.12	0.20 <sub>10</sub>	0.51	.....	48,689.08	1,588,848.83	130.41
Year ended 30th June, 1871 .....	230	33,256	1,917,576	57.66	.....	15,148	1,093,438.86	72.10	9,424	.....	4,449	17,153	11,108.40	0.20	0.44	.....	84,273.68	2,497,259.65	145.59
Year ended 30th June, 1872 .....	235	39,489	2,261,631	57.27	.....	19,325 <sub>829</sub>	1,571,665.19 <sub>206,900.00</sub>	81.33	10,446	.....	6,940	21,059	12,242.34	0.20 <sub>10</sub>	0.39	.....	116,174.55	3,096,500.01	147.04
Year ended 30th June, 1873 .....	239	44,413	2,306,918	51.94	.....	22,159 <sub>1,641</sub>	1,925,999.32 <sub>397,300.00</sub>	86.91	11,995	.....	9,528	23,526	15,093.78	0.22 <sub>10</sub>	0.47	.....	126,932.88	3,207,051.57	136.32
Year ended 30th June, 1874 .....	266	45,329	2,340,284	51.63	.....	24,248 <sub>1,566</sub>	2,086,243.42 <sub>382,400.00</sub>	86.04	12,048	.....	10,606	24,968	14,442.71	0.20 <sub>10</sub>	0.45	.....	126,273.31	3,204,965.46	128.36
Year ended 30th June, 1875 .....	268	42,508	1,942,346	45.69	.....	24,637 <sub>1,317</sub>	2,041,879.04 <sub>300,100.00</sub>	82.88	10,516	.....	11,190	24,294	12,539.59	0.18 <sub>10</sub>	0.42	.....	120,758.06	2,926,090.48	120.44
Year ended 30th June, 1876 .....	279	38,647	1,726,204	44.66	.....	23,127 <sub>1,025</sub>	1,783,257.97 <sub>238,200.00</sub>	77.11	10,218	.....	10,097	24,415	14,662.14	0.23 <sub>10</sub>	0.53	.....	110,116.08	2,740,952.59	112.27
Year ended 30th June, 1877 .....	287	36,126	1,521,000	42.10	.....	21,643 <sub>841</sub>	1,525,682.98 <sub>200,400.00</sub>	70.49	8,971	.....	9,312	24,074	15,149.13	0.26 <sub>10</sub>	0.57	.....	104,067.86	2,639,937.47	109.60
Year ended 30th June, 1878 .....	295	40,097	1,724,371	43.00	.....	21,065 <sub>879</sub>	1,486,158.73 <sub>227,500.00</sub>	70.55	10,058	.....	8,597	25,535	15,266.08	0.25	0.55	6,126.67	103,834.29	2,754,484.03	107.87
Year ended 30th June, 1879 .....	297	43,349	1,973,243	45.52	.....	22,326 <sub>900</sub>	1,475,048.79 <sub>258,400.00</sub>	66.07	10,755	.....	8,845	27,445	16,100.03	0.24 <sub>10</sub>	0.51	.....	110,912.56	3,105,190.80	113.14
Year ended 30th June, 1880 .....	297	56,031	2,720,216	48.55	.....	26,043 <sub>673</sub>	1,820,213.16 <sub>185,600.00</sub>	69.89	14,407	.....	10,487	31,365	19,134.14	0.23 <sub>10</sub>	0.49	.....	136,075.47	3,945,669.11	125.80
Year ended 30th June, 1881 .....	304	71,747	4,175,042	58.19	.....	28,398 <sub>112</sub>	2,072,289.15 <sub>25,100.00</sub>	73.56	18,731	.....	10,491	39,605	23,223.99	0.23 <sub>10</sub>	0.37	.....	184,904.81	6,208,226.77	156.75
Year ended 30th June, 1882 .....	308	97,380	6,435,989	66.09	.....	35,859	3,461,619.31	96.53	25,778	.....	13,920	51,463	29,245.68	0.21 <sub>10</sub>	0.31	391.00	291,065.07	9,473,661.53	184.08
Year ended 30th June, 1883 .....	330	109,489	6,826,266	62.35	.....	45,253	4,730,995.39	104.54	27,127	.....	17,531	61,059	31,180.03	0.20 <sub>10</sub>	0.26	.....	407,305.17	11,976,237.31	196.13
Year ended 30th June, 1884 .....	343	109,388	6,441,439	58.88	.....	56,026	5,649,611.13	100.84	26,562	.....	20,939	6,682	34,168.95	0.20 <sub>10</sub>	0.26	.....	477,487.46	13,245,552.64	198.63
Year ended 30th June, 1885 .....	355	116,576	7,098,459	60.89	.....	59,714	5,793,031.84	97.01	27,591	.....	20,951	73,322	35,751.23	0.20 <sub>10</sub>	0.24	.....	539,560.51	15,090,540.31	205.81
Year ended 30th June, 1886 .....	392	126,322	7,645,227	60.52	.....	62,205	6,183,470.60	99.40	29,103	.....	21,555	80,870	41,358.11	0.21 <sub>10</sub>	0.24	a 341.49	607,075.38	17,159,372.09	212.18
Year ended 30th June, 1887 .....	415	143,076	8,272,041	57.81	.....	65,853	6,626,067.51	100.62	31,874	.....	22,585	90,159	43,661.25	0.20 <sub>10</sub>	0.22	a 150.00	692,404.57	19,497,750.15	216.26
Year ended 30th June, 1888 .....	433	155,978	7,722,330	49.51	217,385.10	78,229	7,514,071.78	96.05	37,515	723	26,704	101,693	44,348.93	0.19	0.21	.....	765,639.15	20,689,032.62	203.44
Year ended 30th June, 1889 .....	463	166,235	7,926,634	47.67	1,085,979.72	84,572	7,532,145.56	89.06	38,049	2,962	29,581	113,123	51,954.46	0.20 <sub>10</sub>	0.22	.....	841,921.79	23,011,422.57	203.41

\* The figures in smaller type in these two columns exhibit further withdrawals not paid to depositors in cash, but at their request paid over to the Finance Department to be inscribed in their names in Dominion Stock. The amount of Dominion Stock held by P. O. Savings Bank depositors, having, as shown, passed out of the Books of the Post Office Savings Bank, does not appear in this Statement.

The fluctuations in the expenses of management, and the average cost of each transaction,—where not explained by variations in the amount of business and the number of transactions,—are mainly attributable to payments in one year for services not wholly chargeable to that year.

(a) The result of burglaries at three country Post Offices.

†† The amounts in small figures in these columns represent the amount and number of accounts transferred from the Government Savings Banks.





The lamented decease of Mr. John Cunningham Stewart, Financial Comptroller of the Department, who died on the 26th December, 1888, was a severe blow to the service. Cut off in the prime of manhood at a time, when to all human appearance, he had before him a long career of usefulness and just as he was bringing into practical operation those changes in the accounting branches of the Department to the consideration and elaboration of which he had so thoroughly devoted himself, his loss could not but be severely felt, and he will long be remembered in the Post Office as one to whom duty was ever the first consideration, and the welfare of the service the goal of his ambition.

Another important change in the staff of the Department took place on the 1st July last, from which date Mr. John Dewé, Chief Post Office Inspector, who, for more than half a century, had occupied a leading position amongst the chief officers of the Post Office, retired to enjoy that rest and relaxation so richly due to long and faithful service.

Mr. Dewé has been succeeded as Chief Post Office Inspector by Mr. Matthew Sweetman, for many years Post Office Inspector at Toronto.

It has been well remarked that both in the United Kingdom and in the United States, the introduction of women into the Civil Service, whilst in no way lessening its efficiency, has tended to improve the morals of the service, and to introduce a courtesy in the conduct of business which men working by themselves are too apt to despise. Several of the young ladies recently appointed to the Post Office service have shewn remarkable aptitude in acquiring a knowledge of their duties.

In conclusion, I feel that it is only a duty which I owe to the officers of the Department generally, to express my sincere thanks for the hearty co-operation I have at all times received from every member of the staff, whether at headquarters or in the Provinces.

WILLIAM WHITE,  
*Deputy Postmaster-General*

---

**Convention for the Exchange of Money Orders between the Post Office  
Department of the Dominion of Canada and the Department  
of Communications of the Empire of Japan.**

---

**ARTICLE I.**

There shall be a regular exchange of Money Orders between the Dominion of Canada and the Empire of Japan.

**ARTICLE II.**

The amounts of orders, in both directions, shall be expressed in Canadian currency, and, on account of the frequent fluctuations in the rate of exchange between the two countries, it is agreed that all amounts shall be converted into their proper equivalents by the Japanese Post Office: that is to say, the sums received by the Japanese Post Office for Orders drawn on Canada shall be converted at the time of issue into Canadian currency at the current rate of exchange; and the amounts of Orders drawn in Canada on Japan shall, in like manner, be rendered by the Japanese Post Office into the currency of Japan, at the current rate of exchange on the day of the arrival of the exchange list.

**ARTICLE III.**

The maximum amount for which a Money Order may be drawn in either country upon the other shall be Fifty dollars.

**ARTICLE IV.**

No Money Order shall contain a fractional part of a cent.

**ARTICLE V.**

The amounts of Money Orders shall be deposited by the remitters, and paid to the payees in gold coin, or in any other legal money of the same current value.

However, in case there should be in circulation in either country, a paper currency of legal tender, but of less value than gold, the Administration of that country shall have the right to receive and employ the same in its relations with the public, taking into account the difference of value.

**ARTICLE VI.**

The Post Office Department of Canada and the Department of Communications of Japan shall each have power to fix, from time to time, the rates of commission to be charged on all Money Orders they may respectively issue. This commission shall belong to the issuing Postal Administration, but the Post Office Department of Canada shall pay to the Department of Communications of Japan one-half of one per cent ( $\frac{1}{2}$  of 1 per cent.) on the amount of orders issued in Canada and payable in Japan; and the Department of Communications of Japan shall make a like payment to the Post Office Department of Canada for Money Orders issued in Japan and payable in Canada.

**ARTICLE VII.**

No Money Order shall be issued unless the applicant furnish, in full, the surname, and at least the initial of one Christian name, both of the remitter and payee (or the corresponding names in the case of natives of Japan); or the name of the firm or company who are the remitters or payees, together with the address of the remitter and that of the payee. If, however, any applicant for a Money Order shall tender the name of either the remitter or payee at greater length, such particulars shall be received, and the list shall be made out accordingly.

## ARTICLE VIII.

The service of the Postal Money Order system between the two countries shall be performed exclusively by the agency of the Offices of Exchange. On the part of Canada the Office of Exchange shall be Victoria, B. C., and on the part of Japan, Tokio.

## ARTICLE IX.

The particulars of all Money Orders drawn in Canada upon Japan shall be entered at the Exchange Office, Victoria, B.C., in a list similar to the form marked "A" (in the appendix), in which shall be shown the amount of each Order in Canadian currency, which list, after having received the impression of the Victoria date stamp, shall be forwarded to the Department of Communications (Direction of International Correspondence) at Tokio, where it shall be impressed with the date stamp of the Department, and where the requisite arrangements for effecting payment of the Orders shall be carried out. In like manner, the particulars of Money Orders drawn in Japan on Canada shall be entered at the Department of Communications (Direction of International Correspondence) at Tokio, in a list similar to the form marked "B," in which shall be shown the amount of each Order in the money of both countries, which list, after having received the impression of the date stamp of that Department, shall be forwarded to the Exchange Office of Victoria, where it shall receive the impression of the date stamp in use, at the Office, and where the necessary arrangements for effecting payment of the Orders shall be carried out.

Each list, as well as the entries in the list, despatched shall be numbered consecutively 1, 2, 3, 4, 5, &c., in an unbroken series, in the order of despatch, and the receipt of each list shall be acknowledged, on either side, by means of the first subsequent list forwarded in the opposite direction.

Such list shall be transmitted whenever there are Money Orders to be advised from either country to the other, and, in order to prevent inconvenience in case the original list should be lost, each office shall forward by the following mail a duplicate of the list sent by the preceding mail.

The Orders issued in Canada during the quarter ending 30th June of each year, which may arrive at the Office of Exchange at Victoria in the following quarter, shall be entered on lists supplementary to the last list of the month of June, and, in like manner, the Orders issued in Japan during the quarter ending 30th June, of each year, which may arrive at the Exchange Office of Tokio in the following quarter, shall be entered on lists supplementary to the last list of the month of June.

## ARTICLE X.

As soon as the list of the despatching office shall have reached the receiving Office of Exchange, the latter shall make out internal Money Orders in favor of the payees for the amounts specified in the list, and shall forward them, free of postage, to the addressees, or to the offices of destination, in conformity with the regulations existing in each country for the payment of Money Orders.

When the lists shall show irregularities which the receiving office shall not be able to rectify, that office shall demand an explanation from the despatching office which shall give such explanation with as little delay as possible. Pending the receipt of the explanation, the issue of domestic Money Orders for payment relating to the entries found to be erroneous in the list shall be suspended.

One copy of each Exchange List shall be returned by the receiving Exchange Office to the despatching Exchange Office, but before returning such copy, the receiving Exchange Office shall enter therein the names of the respective offices of payment of the Orders enumerated in the list, and, in the lists from Canada returned by the Japanese Office, the latter office shall also enter the amount of each Order in Japanese money, according to the conversion made by it.



## ARTICLE XI.

The Orders issued by each country on the other shall be subject, as regards payment, to the regulations which govern the payment of domestic orders in the country of destination. It is agreed that all Money Orders paid in either country shall be retained in the country in which they are paid.

## ARTICLE XII.

When it is desired that any error in the name of the payee or remitter shall be corrected, or that the amount of a Money Order shall be repaid to the remitter, application must be made by the remitter to the Postal Administration of the country in which the order was issued. Duplicate orders shall only be issued by the Postal Administration of the country on which the original Orders were drawn, and in conformity with the regulations established, or to be established, in that country.

## ARTICLE XIII.

Repayment, whether of an original or by means of a duplicate Order, shall not be made to the remitter until it has been ascertained, through the Postal Administration of the country where such Order is payable, that the Order has not been paid, and shall not be paid in the Office of payment.

## ARTICLE XIV.

Orders which shall not have been paid within twelve calendar months from the month of issue, shall become void, and the sums received shall accrue to, and be at the disposal of, the country of issue.

The Department of Communications of Japan shall, therefore, enter to the credit of Canada, in the quarterly account, all Money Orders entered in the lists received from Canada, which remain unpaid at the end of the period specified.

On the other hand, the Post Office Department of Canada shall, at the close of each month, transmit to the Department of Communications of Japan, for entry in the quarterly account, a detailed statement of all Orders included in the lists despatched from the latter office which, under this article, become void.

## ARTICLE XV.

At the close of each quarter an account shall be prepared at the Department of Communications, Tokio, showing, in detail, the totals of the lists containing the particulars of Orders issued in either country during the quarter, and the balance resulting from such transactions.

Two copies of this account shall be transmitted to the Post Office Department of Canada at Ottawa, and the balance, after proper verification, shall, if due by the Department of Communications of Japan, be paid at New York, in Canadian currency, at the same time that it transmits the account, and, if due by the Post Office Department of Canada, it shall be paid at the same time that it returns the accepted copy of the account by means of a Bill of Exchange on Yokohama, for as much in the legal currency of Japan as can be obtained, at the market rate, for the balance due Japan in Canadian currency.

For this quarterly account forms shall be used in exact conformity with the patterns, C, D and E, in the appendix.

If, pending the settlement of an account, one of the two Postal Administrations shall ascertain that it owes the other a balance exceeding Five thousand dollars (\$5,000), the indebted Administration shall promptly remit the approximate amount of such balance to the credit of the other.

## ARTICLE XVI.

The Postmaster General of Canada and the Minister of Communications of Japan shall be authorized to adopt any additional rules, if not repugnant to the foregoing,

for the greater security against fraud, or for the better working of the system generally. All such additional rules, however, must be communicated to the Postal Administration of the other country.

ARTICLE XVII.

Should it appear that Money Orders are used by mercantile men either in Canada, or in Japan, for transmission of large sums of money, the Canadian or Japanese Postal Administration, as the case may be, shall have the power of increasing the commission, and even of wholly suspending, for a time, the issue of Money Orders.

ARTICLE XVIII.

This Convention shall come into effect on the 1st October, 1889 (1st day of 10th month of 22nd year of Meiji), and shall continue in force until twelve months after either of the contracting parties shall have notified to the other its intention to terminate it.

Done in duplicate and signed in Ottawa on 27th day of June, 1889, and in Tokio on 16th day of 5th month of 22nd year of Meiji.

(Sd.) JOHN HAGGART,  
*Postmaster General of the Dominion of Canada.*

{ L. S. }

(Sd.) S. GOTO,  
*Minister of State for Communications of Japan.*

{ L. S. }

RETURN of Passages, Number of Passengers and Cargoes of the Steamships of the Allan and Dominion Lines, under Contract for the Conveyance of the Mails from Liverpool to Halifax, and from Halifax to Liverpool, from the 8th November, 1888, till 3rd May, 1889.

STEAMSHIP.	CAPTAIN.	Left Liverpool.	Arrived at Halifax.	PASSAGE.			Number of Passengers.	FREIGHT IN TONS.		Left Halifax.	Arrived at Liverpool.	PASSAGE.			Number of Passengers.	REMARKS.	
				Days.	Hours.	Minutes.		United States.	Canada.			Days.	Hours.	Minutes.			
								Tons.	Tons.								
Polynesian.	Wylie	Nov. 8	Nov. 18	9	4	0	167	455	1,478	Dec. 1	Dec. 10	8	6	30	96	The bulk of this steamer's homeward cargo was loaded at Portland.	
Vancouver	Lindall	do 15	do 28	9	12	0	80	2	1,410	do 8	do 16	7	19	0	134		
Sarmatian	Richardson	do 22	Dec. 2	9	20	0	170	210	1,417	do 15	do 24	8	10	0	133		
Sarnia	Gibson	do 29	do 9	9	9	0	98	10	1,571	do 22	do 31	8	20	0	47		
Parisian	Ritchie	Dec. 6	do 16	8	23	0	160	371	1,990	do 29	Jan. 7	7	15	50	79		
Oregon	Williams	do 13	do 24	10	2	0	83	3	1,373	Jan. 5	do 14	8	17	0	38		
Polynesian	Wylie	do 20	do 31	10	12	0	71	455	1,690	do 12	do 20	8	5	0	57		
Vancouver	Lindall	do 27	Jan. 5	8	4	0	90		1,473	do 19	do 27	7	18	0	78		
Sarmatian	Richardson	Jan. 4	do 17	13	9	0	92	69	1,848	do 25	Feb. 6	11	7	0	54		
Sarnia	Gibson	do 10	do 20	9	13	0	101	108	1,912	Feb. 2	do 12	9	10	0	34		
Circassian	Barrett	do 17	do 27	9	9	0	77	292	1,900	do 9	do 18	8	20	0	63		
Oregon	Williams	do 24	Feb. 4	10	3	0	80	295	1,800	do 16	do 25	8	16	0	57		
Polynesian	Wylie	do 31	do 13	11	17	0	192	494	2,060	do 22	Mar. 5	10	0	0	60		
Dominion	Cross	Feb. 7	do 19	11	5	0	116	50	2,292	Mar. 2	do 13	10	18	0	32		
Sardinian	Richardson	do 14	do 25	10	7	30	239	469	2,065	do 8	do 18	9	3	0	54		
Sarnia	Gibson	do 21	Mar. 2	8	11	0	137	480	1,939	do 16	do 26	9	19	0	41		
Circassian	Barrett	do 28	do 9	8	6	0	316	291	2,229	do 22	Apr. 1	8	13	0	57		
Oregon	Williams	Mar. 7	do 17	9	18	0	381	262	1,158	do 30	do 8	9	0	0	40		
Parisian	Ritchie	do 14	do 24	9	3	0	921	234	1,518	Apr. 5	do 15	8	17	30	121		
Vancouver	Lindall	do 21	do 30	8	17	0	876	51	1,365	do 13	do 22	8	8	0	79		
Peruvian	Stephen	do 28	Apr. 9	10	0	0	649	351	1,234	do 20	do 30	11	6	0	51		
Sarnia	Gibson	Apr. 4	do 13	8	21	0	628	57	1,725	do 30	May 9	8	19	0	35		
Sardinian	Richardson	do 11	do 20	8	9	45	709	238	1,189	May 3	do 13	8	9	0	77		
				222	19	15	6,433	5,247	38,636					206	12	50	1,517
Average passage Westward				9	16	30	Average passage Eastward								8	23	30

RETURN of Passages, Number of Passengers and Cargoes of the Steamships of the Allan Line, under Contract for the Conveyance of Mails from Liverpool to Quebec, and from Quebec to Liverpool, from 18th April, 1889, till 22nd November, 1889.

STEAMSHIP.	CAPTAIN.	Left Liverpool.	Arrived at Quebec.	PASSAGE.			Number of Passen- gers.	FREIGHT.		Left Quebec.	Arrived at Liverpool.	PASSAGE.			Number of Passen- gers.	BARRELS AND SACKS.			Bushels Grain.	Packages Butter.	Boxes Cheese.	Tierces Beef.	Packages Lard.	Barrels Meat.	Boxes Meat.	Boxes Canned Meats.	Cases Leather.	Packages Spools and Spoolwool.	Cases Splints.	Pieces Deals, Boards and Logs.	Sundries.	Total Barrel Bulk.	REMARKS.
				Days.	Hours.	Minutes.		Quebec and East.	Montreal and West.			Days.	Hours.	Minutes.		Ashes.	Flour and Oatmeal.	Apples.															
Circassian	Barrett	April 18	April 29	10 14 0	812	Tons.	201	Tons.	2,074	May 9	May 19	9 13 0	136					39,284		479	65		25	335		124	63		3,968	171	21,127	851 bundles handles.	
Parisian	Ritchie	do 25	May 4	8 18 0	999		95	1,535	do 16	do 24	8 6 55	287	20				69,451		1,642			80	221	630	53	76		451	12,569	250	23,916		
*Polynesian.	Wylie	May 2	do 12	9 11 0	630		78	1,674																									
†Buenos Ayrean	Scott									May 23	June 2	9 10 0			3,551		62,782		59	294				246				1,451	13,068	11	26,477	587 head of cattle.	
Vancouver	Lindall	May 9	May 19	8 15 50	662		78	1,123	do 30	do 8	8 16 25	267	30	100		38,335		7,047						1,127	1,000	6			38,060	39	24,877		
Sardinian	Richardson	do 16	do 27	9 7 40	722		127	1,916	June 6	do 15	9 5 0	160				1,058		46,009		7,049	297	1,000	8	1,400	300	57		350	1,591	200	20,806		
Oregon	Williams	do 23	June 2	9 12 30	282		43	1,081	do 13	do 23	9 4 30	110	20	1,235		32,236		10,864						2,151	320	41			27,461	47	29,279	100 tons phosphates. 510 blocks.	
Parisian	Ritchie	do 30	do 10	8 10 37	832		126	2,245	do 20	do 28	7 21 30	371				43,220		15,073	201				3	2,013		62		150	8,859	225	26,014		
Caspian	McDougall	June 7	do 18	11 1 40	442		48	1,077	do 27	July 7	9 21 30	153		234		40,506	450	5,134	65				1	1,227	250	30	66		2,569	145	16,296		
Vancouver	Lindall	do 13	do 24	8 23 20	660		64	1,133	July 4	do 13	8 13 5	374		2,200		51,124	78	9,053			65			294		5			18,503	14	26,725		
Sardinian	Richardson	do 20	July 1	10 6 20	392		107	1,696	do 11	do 21	8 22 0	229		200		33,936	1,612	6,064	95				55	1,991	750	19		470	8,678	194	19,107	3,123 shooks.	
Circassian	Barrett	do 27	do 7	9 15 0	307		79	1,870	do 18	do 27	9 2 0	102	15	3,934		30,049	701	6,385					23	1,475	695	62	66	57	17,039	32	21,466		
Parisian	Ritchie	July 4	do 17	8 4 12	577		134	2,238	do 25	Aug. 3	8 8 20	290		2,504		46,179	671	10,302	291				60	4,754	200	39		631	5,051	121	25,723		
Caspian	McDougall	do 11	do 21	9 1 15	370		160	1,536	Aug. 1	do 11	9 11 30	106		1,849		42,699	994	8,338		80	200		7	1,221					16,795	10	32,721	901 bags oil cake; 130 tons phosphates 348 bags oil cake. 1,123 bags oil cake.	
Vancouver	Lindall	do 18	do 27	7 18 30	278		149	1,138	do 18	do 18	7 18 50	230		125		35,500	100	20,647						3,227						1,196	267		21,144
Sardinian	Richardson	do 25	Aug. 4	8 20 0	371		57	1,880	do 15	do 25	8 23 0	120	10	575		43,977	694	12,309	81				1	1,600	306	86	516	448	16,909	2	25,351		
Oregon	Williams	Aug. 1	do 11	9 8 30	196		92	1,768	do 22	Sept. 1	8 5 30	55	10	2,150		34,664		7,278						784						8,182	252	25,672	
Parisian	Ritchie	do 8	do 16	7 18 36	534		31	1,981	do 29	do 7	8 1 30	310		8,606		57,180	178	4,472	15				100	896	347	25	29		2,240	284	16,854		
Caspian	McDougall	do 15	do 25	9 8 23	349		98	1,388	Sept. 5	do 15	9 23 0	118				46,647	197	8,348	79	750			100	1,064						31,427	94	29,736	
Vancouver	Lindall	do 22	do 31	8 20 40	520		238	1,734	do 12	do 21	8 2 20	256	14	2,333	70		36,156		10,465											2,874	29	20,100	
Sardinian	Richardson	do 29	Sept. 7	8 10 0	384		64	2,163	do 19	do 28	8 18 0	151		1,175	911		30,752		8,553	161				1,769		6				27,233	37	21,090	
Circassian	Barrett	Sept. 6	do 14	8 11 0	320		81	1,694	do 27	Oct. 6	8 22 0	151	11	8,524	403		28,657	100	6,686	15				1,855	500	46	3,921	550	2,874	29	20,100	100 tons phosphates. 80 casks oil. 336 packages furs.	
Parisian	Ritchie	do 12	do 21	8 3 0	631		75	1,942	Oct. 3	do 11	8 4 0	366			1,260		53,995	160	21,757	43	1,000			1,418	1,250	1	56			3,765	3		22,225
Polynesian	Wylie	do 19	do 28	8 21 35	288		99	2,033	do 10	do 19	8 18 30	188	15		2,742		30,047	183	14,961	213	350	31		2,114	1,200					27,233	60		27,233
Vancouver	Lindall	do 26	Oct. 5	8 17 14	392		129	1,852	do 17	do 25	8 8 15	235		3,900	3,853		38,343	162	8,302					1,817						18,742	33	21,090	
Sardinian	Richardson	Oct. 3	do 14	10 12 30	233		79	1,856	do 24	Nov. 2	8 20 30	98	9		6,491		32,253	1,335	10,465					1,129	500	52	86	414		56	22,072	240 bales hops.	
Oregon	Williams	do 10	do 20	10 2 0	124		56	1,309	do 31	do 9	9 16 0	58			5,294		51,248		3,225					131						15,309	62		23,768
Parisian	Ritchie	do 17	do 25	7 18 25	391		84	2,076	Nov. 7	do 16	8 11 9	258			10,087	8,765	30,100	6	5,314					236	39					2,543	33		26,575
Polynesian	Wylie	do 25	Nov. 5	11 0 30	170		147	2,421	do 15	do 24	9 2 30	142	42	775	5,532		24,506	587	13,166					351	60	1				2,577	95	20,985	
Vancouver	Lindall	Nov. 1	do 10	9 6 20	251		48	2,157	do 22	Dec. 2	8 20 0	248	17	1,332	9,631		40,301	200	13,521					230		1				7,895	701	28,870	
Average passage Westward				9 3 24	Average passage Eastward				8 20 14																								

STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF THE DOMINION OF CANADA,  
FOR THE YEAR ENDED 30TH JUNE, 1889.

## DOMINION OF CANADA.

## REVENUE.

Balances due by Postmasters on old revenue account to 30th June, 1888.....	\$42,305 75	\$	cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which, amounting to \$162,978.45, was brought to account as a separate item in the Post Office statement of last Year.....	32,959 02		
			75,264 77
Postage stamps, post cards, &c., sold.....			2,769,987 12
Postage paid in money, on letters.....			16,107 56
Postage paid in money, on newspapers.....			869 02
Postage collected by Letter Carriers.....			225 11
Transit postage from Great Britain.....			3,374 62
Rents of letter boxes and drawers.....			21,530 29
Other miscellaneous receipts.....			1,725 92
Commissions received on Money Orders.....			89,377 63
Profit in exchange on Money Order business with other Countries.....			1,686 24
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889.....			4,083 32
Gross Revenue.....			\$2,984,222 60
DEDUCTIONS FROM REVENUE.			
		\$	cts.
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business.....	623,011 75		
Discount to Stamp Vendors.....	14,864 07		
Mis-sent and dead letters.....	2,566 15		
Other miscellaneous disbursements.....	705 55		
Amount paid for the redemption of postage stamps.....	3,754 15		
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888.....	79,028 32		
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887.....	3,900 90		
Balance of commission paid to other Countries on Money Order business....	2,914 16		
Cost of remittances to the United States on Money Order business.....	185 05		
Balances still due by Postmasters upon old revenue account, on 30th June, 1889	32,788 84		
			763,718 94
Net Revenue.....			\$2,220,503 66

## DOMINION OF CANADA.

## EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.

Conveyance of mails by land.....		\$	cts.
do steamboats, &c.....			740,206 04
do railways.....			107,765 59
Making and repairing mail bags and locks.....			924,425 25
			17,273 54
Total Mail Service.....			\$1,789,670 42
Salaries paid by cheque.....			988,617 60
Travelling expenses.....			16,692 24
Tradesmen's bills.....			74,627 82
Rents and taxes.....			1,780 83
Stationery, printing and advertising.....			66,010 32
Other miscellaneous disbursements paid by cheque.....			44,922 25
Total Expenditure by Cheque.....			\$2,982,321 48

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA, IN THE PROVINCE OF  
ONTARIO, FOR THE YEAR ENDED 30TH JUNE, 1889.

PROVINCE OF ONTARIO.

REVENUE.

Balances due by Postmasters on old revenue account to 30th June, 1888.....	\$3,375 81	\$ cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	17,457 72	20,833 53
Postage stamps, post cards, &c., sold .....		1,553,991 44
Postage paid in money, on letters.....		8,919 90
Postage paid in money, on newspapers.....		469 33
Postage collected by Letter Carriers.....		
Transit postage from Great Britain.....		1,894 70
Rents of letter boxes and drawers.....		5,120 63
Other miscellaneous receipts.....		730 53
Commissions received on Money Orders.....		44,294 09
Profit in exchange on Money Order business with other Countries.....		946 75
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889.....		2,292 68
Gross Revenue.....		\$1,639,493 58
DEDUCTIONS FROM REVENUE.		\$ cts.
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business .....	354,795 30	
Discount to Stamp Vendors.....	7,917 77	
Mis-sent and dead letters.....	1,215 73	
Other miscellaneous disbursements.....	224 00	
Amount paid for the redemption of postage stamps.....	2,107 79	
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888.....	44,371 25	
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887.....	2,190 19	
Balance of commission paid to other countries on Money Order business.....	1,636 17	
Cost of remittances to the United States on Money Order business.....	103 89	
Balances still due by Postmasters upon old revenue account, on 30th June, 1889.....	6,742 27	
		421,304 36
Net Revenue.....		\$1,218,189 22

PROVINCE OF ONTARIO.

EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.

Conveyance of mails by land.....		\$ cts.
do steamboats, &c. ....		273,547 10
do railways.....		8,539 65
Making and repairing mail bags and locks.....		447,657 02
		9,390 31
Total Mail Service.....		\$739,134 08
Salaries paid by cheque.....		468,767 91
Travelling expenses .....		6,312 39
Tradesmen's bills.....		40,515 08
Rents and taxes.....		375 00
Stationery, printing and advertising.....		34,143 66
Other miscellaneous disbursements paid by cheque.....		25,096 63
Total Expenditure by Cheque.....		\$1,314,344 75

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE.  
Deputy Postmaster-General.

STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA, IN THE PROVINCE OF  
QUEBEC, FOR THE YEAR ENDED 30TH JUNE, 1889.

## PROVINCE OF QUEBEC.

## REVENUE.

Balances due by Postmasters on old revenue account, to 30th June, 1888.....	\$16,637 70	\$ cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	5,002 24	
Postage stamps, post cards, &c., sold .....		21,639 94
Postage paid in money, on letters .....		584,957 74
Postage paid in money, on newspapers .....		3,939 33
Postage collected by Letter Carriers .....		216 57
Transit postage from Great Britain .....		712 49
Rents of letter boxes and drawers .....		6,915 23
Other miscellaneous receipts .....		456 26
Commissions received on Money Orders .....		11,405 89
Profit in exchange on Money Order business with other Countries .....		356 02
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889.....		862 15
Gross Revenue.....		\$631,461 62
DEDUCTIONS FROM REVENUE.		
	\$ cts.	
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business .....	99,827 32	
Discount to Stamp Vendors .....	3,752 76	
Mis-sent and dead letters .....	530 23	
Other miscellaneous disbursements .....	146 50	
Amount paid for the redemption of postage stamps .....	792 63	
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888. ....	16,685 64	
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887 .....	823 61	
Balance of commission paid to other Countries on Money Order business....	615 27	
Cost of remittances to the United States on Money Order business.....	39 07	
Balances still due by Postmasters upon old revenue account, on 30th June, 1889 .....	9,652 26	
		132,865 29
Net Revenue.....		\$498,596 33

## PROVINCE OF QUEBEC.

## EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.

	\$ cts.
Conveyance of mails by land.....	152,739 80
do steamboats, &c.....	28,747 41
do railways.....	191,463 23
Making and repairing mail bags and locks.....	4,980 84
Total Mail Service.....	\$377,931 28
Salaries paid by cheque .....	257,528 87
Travelling expenses.....	5,693 29
Tradesmen's bills .....	16,823 59
Rents and taxes.....	955 83
Stationery, printing and advertising.....	13,963 95
Other miscellaneous disbursements paid by cheque.....	10,304 63
Total Expenditure by Cheque.....	\$683,201 44

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

**STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA, IN THE PROVINCE OF  
NOVA SCOTIA, FOR THE YEAR ENDED 30TH JUNE, 1889.**

**PROVINCE OF NOVA SCOTIA.**

**REVENUE.**

Balances due by Postmasters on old revenue account to 30th June, 1888.....	\$11,600 22	\$	cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	1,026 82		
			12,627 04
Postage stamps, post cards, &c., sold.....			209,362 52
Postage paid in money, on letters.....			718 84
Postage paid in money, on newspapers.....			63 44
Postage collected by Letter Carriers.....			254 98
Transit postage from Great Britain.....			1,725 97
Rents of letter boxes and drawers.....			119 97
Other miscellaneous receipts.....			13,046 42
Commissions received on Money Orders.....			127 41
Profit in exchange on Money Order business with other Countries.....			308 44
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889.....			
Gross Revenue.....		\$238,355 03	
<b>DEDUCTIONS FROM REVENUE.</b>		\$	cts.
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business.....	64,487 17		
Discount to Stamp Vendors.....	803 61		
Mis-sent and dead letters.....	141 44		
Other miscellaneous disbursements.....	26 30		
Amount paid for the redemption of postage stamps.....	283 65		
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888.....	5,971 50		
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887.....	294 75		
Balance of commission paid to other Countries on Money Order business.....	220 19		
Cost of remittances to the United States on Money Order business.....	13 98		
Balances still due by Postmasters upon old revenue account, on 30th June, 1889.....	7,926 31		
		80,168 90	
Net Revenue.....		\$158,186 13	

**PROVINCE OF NOVA SCOTIA.**

**EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.**

	\$	cts.
Conveyance of mails by land.....	122,126 16	
do steamboats, &c.....	13,808 77	
do railways.....	52,102 32	
Making and repairing mail bags and locks.....	585 90	
Total Mail Service.....	\$188,623 15	
Salaries paid by cheque.....	64,393 41	
Travelling expenses.....	1,374 68	
Tradesmen's bills.....	5,945 23	
Rents and taxes.....	5,895 74	
Stationery, printing and advertising.....	2,994 28	
Other miscellaneous disbursements paid by cheque.....		
Total Expenditure by Cheque.....	\$269,226 49	

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

**STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA. IN THE PROVINCE OF NEW  
BRUNSWICK, FOR THE YEAR ENDED 30TH JUNE, 1889.**

**PROVINCE OF NEW BRUNSWICK.**

**REVENUE.**

Balances due by Postmasters on old revenue account to 30th June, 1888.....	\$2,952 45	\$	cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	2,492 08		
			5,444 53
Postage stamps, post cards, &c., sold .....			146,211 12
Postage paid in money, on letters .....			384 42
Postage paid in money, on newspapers .....			26 96
Postage collected by Letter Carriers .....			225 11
Transit postage from Great Britain .....			178 12
Rents of letter boxes and drawers .....			1,503 71
Other miscellaneous receipts .....			79 94
Commissions received on Money Orders .....			7,129 12
Profit in exchange on Money Order business with other Countries .....			89 00
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889 .....			215 53
<b>Gross Revenue.....</b>			<b>\$161,487 56</b>
<b>DEDUCTIONS FROM REVENUE.</b>			
		\$	cts.
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business .....	40,225 50		
Discount to Stamp Vendors .....	1,083 79		
Mis-sent and dead letters .....	138 54		
Other miscellaneous disbursements .....	27 50		
Amount paid for the redemption of postage stamps .....	198 16		
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888 .....	4,171 40		
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887 .....	205 90		
Balance of commission paid to other Countries on Money Order business .....	153 81		
Cost of remittances to the United States on Money Order business .....	9 76		
Balances still due by Postmasters upon old revenue account, on 30th June, 1889 .....	2,525 32		
			48,739 68
<b>Net Revenue.....</b>			<b>\$112,747 88</b>

**PROVINCE OF NEW BRUNSWICK.**

**EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.**

	\$	cts.
Conveyance of mails by land.....	55,058 76	
do steamboats, &c.....	15,478 37	
do railways .....	94,734 98	
Making and repairing mail bags and locks .....	1,039 08	
<b>Total Mail Service.....</b>	<b>\$166,311 19</b>	
Salaries paid by cheque.....	74,994 69	
Travelling expenses .....	941 09	
Tradesmen's bills .....	3,965 93	
Rents and taxes .....		
Stationery, printing and advertising .....	4,885 81	
Other miscellaneous disbursements paid by cheque .....	3,011 63	
<b>Total Expenditure by Cheque.....</b>	<b>\$254,110 34</b>	

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*



STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA, IN THE PROVINCE OF  
MANITOBA AND THE NORTH-WEST TERRITORIES,  
FOR THE YEAR ENDED 30TH JUNE, 1889.

PROVINCE OF MANITOBA AND THE NORTH-WEST TERRITORIES.

REVENUE.

Balances due by Postmasters on old revenue account to 30th June, 1888.....	\$5,813 16	\$ cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	5,121 52	
		10,934 68
Postage stamps, post cards, &c., sold.....		174,483 33
Postage paid in money, on letters.....		1,372 54
Postage paid in money, on newspapers.....		56 76
Postage collected by Letter Carriers.....		
Transit postage from Great Britain.....		212 28
Rents of letter boxes and drawers.....		2,198 00
Other miscellaneous receipts.....		173 72
Commissions received on Money Orders.....		6,351 95
Profit in exchange on Money Order business with other Countries.....		106 08
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889.....		256 87
Gross Revenue.....		\$196,146 21
DEDUCTIONS FROM REVENUE.		
	\$ cts.	
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business.....	41,765 57	
Discount to Stamp Vendors.....	764 59	
Mis-sent and dead letters.....	166 85	
Other miscellaneous disbursements.....	87 00	
Amount paid for the redemption of postage stamps.....	236 16	
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888.....	4,971 40	
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887.....	245 39	
Balance of commission paid to other Countries on Money Order business....	183 31	
Cost of remittances to the United States on Money Order business.....	11 66	
Balances still due by Postmasters upon old revenue account, on 30th June, 1889.....	4,661 80	
		53,093 73
Net Revenue.....		\$143,052 48

PROVINCE OF MANITOBA AND THE NORTH-WEST TERRITORIES.

EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.

	\$ cts.
Conveyance of mails by land.....	79,147 92
do steamboats, &c.....	77,119 21
do railways.....	349 14
Making and repairing mail bags and locks.....	
Total Mail Service.....	\$156,616 27
Salaries paid by cheque.....	79,154 51
Travelling expenses.....	927 50
Tradesmen's bills.....	4,576 17
Rents and taxes.....	
Stationery, printing and advertising.....	4,847 59
Other miscellaneous disbursements paid by cheque.....	1,453 83
Total Expenditure by Cheque.....	\$247,575 87

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA, IN THE PROVINCE OF BRI-  
TISH COLUMBIA, FOR THE YEAR ENDED 30TH JUNE, 1889.

PROVINCE OF BRITISH COLUMBIA.

REVENUE.

Balances due by Postmasters on old revenue account to 30th June, 1888. ....	\$1,212 24	\$	cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	721 46		
			1,933 70
Postage stamps, post cards, &c., sold.....			70,740 42
Postage paid in money, on letters.....			669 51
Postage paid in money, on newspapers.....			23 41
Postage collected by Letter Carriers.....			
Transit postage from Great Britain.....			85 45
Rents of letter boxes and drawers.....			3,190 25
Other miscellaneous receipts.....			155 93
Commissions received on Money Orders.....			6,129 63
Profit in exchange on Money Order business with other Countries.....			42 69
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889.....			103 37
Gross Revenue.....			\$83,074 36
DEDUCTIONS FROM REVENUE.		\$	cts.
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business.....	13,694 46		
Discount to Stamp Vendors.....	354 45		
Mis-sent and dead letters.....	357 76		
Other miscellaneous disbursements.....	194 25		
Amount paid for the redemption of postage stamps.....	95 05		
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888.....	2,000 00		
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887.....	98 76		
Balance of commission paid to other Countries on Money Order business.....	73 81		
Cost of remittances to the United States on Money Order business.....	4 68		
Balances still due by Postmasters upon old revenue account, on 30th June, 1889.....	794 29		
			17,667 51
Net Revenue.....			\$65,406 85

PROVINCE OF BRITISH COLUMBIA.

EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.

Conveyance of mails by land.....		\$	cts.
do steamboats, &c.....			44,783 78
do railways.....			39,449 39
Making and repairing mail bags and locks.....			40,010 94
			252 45
Total Mail Service.....			\$124,496 56
Salaries paid by cheque.....			30,812 95
Travelling expenses.....			1,280 50
Tradesmen's bills.....			1,905 07
Rents and taxes.....			450 00
Stationery, printing and advertising.....			1,527 44
Other miscellaneous disbursements paid by cheque.....			1,312 21
Total Expenditure by Cheque.....			\$161,784 73

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

STATEMENT OF THE REVENUE AND EXPENDITURE OF THE POST  
OFFICE DEPARTMENT OF CANADA, IN THE PROVINCE  
OF PRINCE EDWARD ISLAND, FOR THE YEAR  
ENDED 30TH JUNE, 1889.

PROVINCE OF PRINCE EDWARD ISLAND.

REVENUE.

Balances due by Postmasters on old revenue account to 30th June, 1888.....	\$ 714 17	\$ cts.
These balances, owing to the new system of accounting for the revenue, were further increased by a supplementary quarter; the revenue from which was brought to account as a separate item in the Post Office statement of last Year.....	1,137 18	
Postage stamps, post cards, &c., sold .....		1,851 35
Postage paid in money, on letters .....		30,240 55
Postage paid in money, on newspapers .....		103 02
Postage collected by Letter Carriers .....		3 55
Transit postage from Great Britain .....		36 60
Rents of letter boxes and drawers .....		876 50
Other miscellaneous receipts .....		9 57
Commissions received on Money Orders .....		1,020 53
Profit in exchange on Money Order business with other Countries .....		18 29
Void Money Orders, that is, Money Orders issued between 1st July, 1886, and 30th June, 1888, payment of which had not been claimed up to 30th June, 1889. ....		44 28
Gross Revenue.....		\$34,204 24
DEDUCTIONS FROM REVENUE.		
Salaries, forward allowances, allowances towards rent, fuel and light, and compensation to Postmasters on Money Order business.....	8,216 43	\$ cts.
Discount to Stamp Vendors .....	187 10	
Mis-sent and dead letters .....	15 60	
Other miscellaneous disbursements.....		
Amount paid for the redemption of postage stamps .....	40 71	
Transit rates on mail matter passing through the United States for other Countries, from 1st April, 1886, to 31st December, 1888. ....	857 13	
Transit rates on mail matter passing between Newfoundland and the Dominion of Canada, from 1st April, 1886, to 31st December, 1887 .....	42 30	
Balance of commission paid to other Countries on Money Order business....	31 60	
Cost of remittances to the United States on Money Order business.....	2 01	
Balances still due by Postmasters upon old revenue account, on 30th June, 1889 .....	486 59	
Net Revenue.....		9,879 47
		\$24,324 77

PROVINCE OF PRINCE EDWARD ISLAND.

EXPENDITURE BY CHEQUE, FROM PARLIAMENTARY APPROPRIATION.

Conveyance of mails by land.....	\$ cts.
do steamboats, &c.....	12,802 52
do railways.....	1,742 00
Making and repairing mail bags and locks.....	21,337 55
	675 82
Total Mail Service.....	\$36,557 89
Salaries paid by cheque.....	12,965 26
Travelling expenses.....	162 79
Tradesmen's bills.....	896 75
Rents and taxes .....	
Stationery, printing and advertising .....	746 13
Other miscellaneous disbursements paid by cheque. ....	749 04
Total Expenditure by Cheque.....	\$52,077 86

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

**MEMORANDUM of Special Mail Subsidies and Steamship Subventions disbursed through the Post Office Department, during the Fiscal Year ended 30th June, 1889.**

N.B.—These amounts *are not* paid from the Parliamentary Appropriation for the Post Office Department, but from the special vote for Mail Subsidies and Steamship Subventions, and are brought into the Public Accounts under that heading.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Yearly subsidy to Montreal Ocean Steamship Co.—					\$ cts.
Halifax and Liverpool, <i>vid</i> Mo-ville (winter) .....	Andrew Allan ..	2,530	1	} 12 mos. (to Mar. 31, '89)	126,533 33
Quebec and Liverpool, <i>vid</i> Mo-ville (summer) .....	do ..	2,650	1		
Steam communication on the Mus- koka Lakes—					
Ahmik Harbor, Burk's Falls and Gravenhurst, &c. ....	M. & N. Nav. Co.	250	2, 3, 6	Season, 1888 .....	4,102 50
Steam communication on Lakes Huron and Superior—					
Collingwood & Sault Ste. Marie	G. N. Transit Co.	429	2	do .....	2,500 00
Owen Sound & Sault Ste. Marie	C. L. S. Transit Co	390	2	do .....	2,500 00
Steam communication with the Mag- dalen Islands—					
Pictou, Magdalen Islands, Grand Entry, &c. ....	J. Holliday .....	180	1	do .....	10,958 34
Steam communication between Hali- fax and St. John, <i>vid</i> Yarmouth—					
Halifax and St. John. <i>vid</i> Yar- mouth and intermediate ports	Yarmouth SS. Co	292	6	do .....	7,500 00
Steam communication between Port Mulgrave and East Bay, C.B.—					
Port Mulgrave, East Bay and North Sydney, &c. ....	B. d'Or S. Nav. Co	185	6 & 3	do .....	7,000 00
Steam communication between Cape Canso and Port Hood, <i>vid</i> Port Mulgrave—					
Port Mulgrave to Canso, &c., <i>vid</i> Arichat .....	R. Macdonald ..	95	6 & 2	do .....	5,000 00
Steam communication between Port Mulgrave or Pictou Railway Ter- minus and Cheticamp, &c. (the Local Government having granted a similar amount)—					
Pictou, Port Hood, Mabou, Margaree and Cheticamp ...	F. W. Fraser....	117	1	do .....	2,000 00
Steam communication between Hali- fax and St. Pierre—					
Halifax, Cape Breton and St. Pierre Miquelon .....	A.-F. SS. Co....	439	F'ly.	12 mos. (to Mar. 31, '89).	2,000 00
Steam communication between Grand Manan, N.B., & Mainland—					
Grand Manan, St. John and St. Stephen .....	E. Gaskill....	75 & 50	1	12 do do ..	4,000 00
Steam communication between the United States and Victoria, B.C.—					
Victoria, B.C., and San Fran- cisco, U.S. ....	Goodall & Per- kins .....	750	1	10 do (to June 30, '89).	14,700 00
Steam communication between Prince Edward Island & Mainland—					
Charlottetown, P.E.I., Shediac, N.B., and Pictou, N.S. ....	P. E. Isl'd S. N. Co	60 & 45	4 & 6	12 do (to Mar. 31, '89).	10,000 00
					\$198,794 17

W. H. SMITHSON,  
Accountant

WILLIAM WHITE,  
Deputy Postmaster-General.



## PROVINCE OF ONTARIO.

DETAIL of all payments for Mail Transportation in Ontario made within the year ended 30th June, 1889.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Aberarder and Railway Station	D. N. Sinclair	1	6	12 months	40 00
Aberdeen and Durham	L. Elvidge	11	3	12 do	73 00
Aberdour and Railway Station	G. Christie	4	6	12 do	70 00
Abington and Canfield	W. Young	12	3	8 do (from Aug 1, '88)	103 33
Abington and Winona	J. Williams	15	3	8 do do	159 33
Aboyne and Elora	J. T. Taylor	1	6	9 do (to Dec. 31, '88)	56 25
do do	T. Godfrey	1	6	3 do from do	17 50
Acton and Knatchbull	E. J. Langrill	5	2	6 do (to Sept. 30, '88)	37 50
do do	T. Wilson	5	2	6 do from do	37 50
Acton and Speyside	E. J. Langrill	5	2	6 do (to Sept. 30, '88)	37 50
do do	T. Wilson	5	2	6 do from do	37 50
Adare and Maguire	A. Tod	24	3	12 do	50 00
Addison and Bell's Station	H. S. Moffatt	8	6	12 do	200 00
Adelaide and Strathroy	J. Harris	8	6	12 do	240 00
Adolphustown and Bath	J. H. Roblin	14	6	12 do	425 00
Adolphustown and Napanee	E. Galligher	25	6	12 do	585 00
Agincourt and Railway Station	W. Lawton	4	6	12 do	30 00
Agincourt Station and L'Amaroux	R. H. Madill	4	3	12 do	100 00
Agincourt, Canadian Pacific Railway and Midland Railway	W. Lawton	7	12	12 do	125 00
Ahmie Harbor and Parry Sound	T. W. Quinn	32	3	12 do	614 00
Ahmie Harbor and Wharf	S. Paul	1	3	Season 1888	21 25
Ahmie Lake and Spence	J. McCartney	9	1	12 months	60 00
Ailsa Craig and Railway Station	S. Hey	4	6	12 do	78 00
Ailsa Craig, Denfield and Ry. Station	J. Orr	6	6 & 12	12 do	250 00
Air Line Junction and Ry. Station	M. Grisdale	4	6	12 do	40 00
Albert and Marysville	P. Sullivan	9	3	12 do	150 00
Alberton and Lynden	B. Dunham	7	6	12 do	188 00
Albion and Railway Station	Q. D. Elliott	4	24	12 do	60 00
Albion, Castlederg and Mount Wolfe	S. J. Snell	6 & 5	6 & 3	12 do	260 00
Albuna and Cottam	E. S. Irwin	6	2	12 do	72 72
Albury and Rednersville	J. T. Rose	4	3	9 do (to Dec. 31, '88)	56 25
do do	G. Rose	4	3	3 do from do	18 75
Aldboro' and Rodney	N. Gray	6	6	12 do	144 00
Aldershot and Waterdown	J. Simmons	3	12	12 do	199 00
Alexandria and McCrimmon	D. McCrimmon	9	6	12 do	240 00
Alexandria and Railway Station	A. J. McDonald	1	24	12 do	112 68
Alexandria and St. Raphael West	J. McDougall	17	6	12 do	325 00
Alexandria and Vankleek Hill	A. Mercier	19	6	12 do	350 00
Alfred and Montebello	L. Larocque	9	6	12 do	200 00
Algoma Mills and Railway Station	H. F. McQuire	4	6	Season 1888-89	23 40
Allanburg and Railway Station	W. Livingston	3	12	12 months	94 00
Allandale and Holly	W. Amstrey	3	6	12 do	115 00
Allandale and Painswick	W. Thompson	3	6	12 do	150 00
Allandale and Railway Station	M. J. Hamlin	4	36	12 do	150 00
Allen Park and Hampden	H. Byers	5	2	12 do	70 00
Allen Park and Lamash	E. Earls	5	3	12 do	110 00
Allenford and Owen Sound	T. N. Williamson	13	6	12 do	120 00
Allenford and Railway Station	J. Dean	4	12	12 do	124 80
Allenford and Saugeen	W. Gilbert	11	6	12 do	245 00
Allenford and Skipness	J. Davidson	4	2	12 do	75 00
Allensville and Catching Post	J. McNicol	4	6	12 do	78 00
Allensville and Utterson	do	4	3	12 do	54 60
Allenwood and Elmvale	J. G. Dickinson	6	3	12 do	110 00
Allenwood and Gibson	do	3	2	12 do	45 00
Allisonville and Consecn.	G. Pine	8	3	12 do	150 00
Alliston and Elm Grove	S. Berridge	14 r. t.	6	12 do	300 00
Alliston and Railway Station	T. Langley	4	12	12 do	49 00
Alliston and Rosemont	do	9	6	12 do	270 00
Alloa and Edmonton	W. Goulding	6	3	12 do	90 00
Allsaw and Minden	D. Burk	10	2	12 do	140 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Alma and Railway Station.....	J. H. Walker.....	$\frac{1}{2}$	12	12 months.....	117 00
Alma and Winfield.....	J. Wattin.....	8	3	12 do.....	130 00
Almonte and Clayton.....	A. Barnett.....	10 & 12	6	12 do.....	225 00
Almonte and Railway Station.....	E. Dowdall.....	$\frac{1}{2}$	24	12 do.....	164 11
Almonte and West Huntley.....	J. Manion.....	12	3	12 do.....	196 00
Alport and Bracebridge.....	H. F. Bickmore.....	4	3	12 do.....	117 00
Alsfield and Railway Station.....	H. Ziegler.....	$\frac{1}{4}$	6	12 do.....	100 00
Althorpe and Maberly.....	S. Hanna.....	9	2	3 do (to June 30, '88).....	22 50
do do.....	J. W. Morris.....	9	2	9 do from do.....	63 36
Alton and Railway Station.....	A. Menzies.....	1	12	12 do.....	96 72
Allvinston and Railway Station.....	M. Temple.....	$\frac{1}{2}$	12	12 do.....	85 00
Amaranth Station and Ry. Station.....	J. Lacon.....	$\frac{1}{2}$	6	12 do.....	40 00
Amberley and Kincardine.....	J. Bayne.....	14	6	12 do.....	298 00
Amberley and Kintail.....	T. Elson.....	6	6	2 do 10 dys. (from Jan. 22, '89).....	38 23
Amberley and Lochalsh.....	J. McLennan.....	4	3	6 do (to Sept. 30, '88).....	42 00
Amberley and Lurgan.....	J. McGrindle.....	$\frac{1}{2}$	3	12 do.....	80 00
Ameliasburg and Belleville.....	G. W. Tice.....	10	6	12 do.....	400 00
Amherstburg and Oxley.....	A. Elliot.....	19	6	12 do.....	475 00
Amherstburg and Railway Station.....	A. Fox.....	1	12	12 do.....	218 40
Amherstburg and Windsor.....	do.....	18	3 & 6	12 do.....	391 75
Amiens and Lobo.....	R. Sharpe.....	12 $\frac{1}{2}$	3	12 do.....	116 96
Amigari and Railway Station.....	A. B. Hurrell.....	$\frac{1}{2}$	12	12 do.....	65 00
Ancaster and Hamilton.....	W. M. Elliot.....	7	12	12 do.....	224 00
Anderson and Granton.....	J. Anderson.....	15	2	12 do.....	250 00
Angus and Essa Centre.....	J. M. Coulson.....	6	2	12 do.....	80 00
Angus and Railway Station.....	W. J. Smith.....	$\frac{1}{2}$	12	12 do.....	60 00
Anson and Railway Station.....	A. McMullen.....	50 yds	6	12 do.....	25 00
Ansonia and Thessalon.....	J. B. Dobie.....	8	1	3 do (to June 30, '88).....	16 25
Anten Mills and Railway Station.....	J. McLaughlin.....	$\frac{1}{2}$	6	12 do.....	110 00
Antioch and Grassmere.....	F. Widdiss.....	10 $\frac{1}{2}$	1	12 do.....	52 00
Appin and Glen Willow.....	J. M. Cameron.....	$\frac{1}{2}$	3	3 do (to June 30, '88).....	22 50
do do.....	J. Reilly.....	$\frac{1}{2}$	3	9 do from do.....	67 50
Appin and Mayfair.....	J. E. Campbell.....	$\frac{1}{2}$	3	12 do.....	100 00
Appleby and Railway Station.....	J. Prescott.....	$\frac{1}{2}$	6	12 do.....	82 00
Appledore and Railway Station.....	O. B. Arnold.....	2 $\frac{1}{2}$	2	12 do.....	64 48
Appleton and Carleton Place.....	J. G. Munro.....	$\frac{1}{2}$	12	6 do (from Oct. 1, '88).....	147 21
Appleton and Railway Station.....	do.....	$\frac{1}{2}$	12	6 do (to Sept. 30, '88).....	157 50
Apsley and Cheddar.....	T. Eastland.....	21	1	12 do.....	180 00
Apsley and Lasswade.....	do.....	11	1	12 do.....	52 60
Apsley and Peterboro'.....	do.....	40	3	12 do.....	550 00
Apto and Phelpsston Station.....	H. O'Neill.....	6	6	12 do.....	180 00
Archer and Boucks Hill.....	R. S. Weagant.....	9	3	3 do (to June 30, '88).....	28 00
do do.....	T. Archer.....	9	3	9 do from do.....	84 00
Archville and Ottawa.....	C. M. Garrow.....	1 $\frac{1}{2}$	6	12 do.....	80 00
Ardagh and Commanda.....	J. Driver.....	9	1	3 do (to June 30, '88).....	17 50
Ardagh and Golden Valley.....	G. Dobbs.....	5	1	3 do do.....	6 25
Arden and Railway Station.....	J. W. Babcock.....	1	6	12 do.....	75 00
Arden and Tamworth.....	do.....	20 $\frac{1}{2}$	3	12 do.....	190 00
Ardrea and Orillia.....	W. Blair.....	9	2	12 do.....	160 00
Arkona and Keyser.....	W. J. Evans.....	$\frac{1}{2}$	2	12 do.....	75 00
Arkona and Thedford.....	W. Hester.....	$\frac{1}{2}$	6	12 do.....	140 00
Arkona and Watford.....	F. Hooper.....	12	6	12 do.....	450 00
Arkwright and Mount Hope.....	J. Cole.....	3 $\frac{1}{2}$	2	6 do (to Sept. 30, '88).....	25 00
do do.....	W. F. Sithes.....	3 $\frac{1}{2}$	2	6 do from do.....	35 00
Armada and Unionville.....	J. Webber.....	$\frac{1}{2}$	3	3 do (to June 30, '88).....	25 00
do do.....	M. R. Hemingway.....	$\frac{1}{2}$	3	9 do from do.....	67 11
Armow and Kincardine.....	W. Shier.....	11	3	12 do.....	170 00
Armstrong's Mills and Guelph.....	G. Armstrong.....	8	2	12 do.....	75 00
Arnott and Railway Station.....	W. G. Murray.....	$\frac{1}{2}$	12	12 do.....	60 00
Arnprior and Fitzroy Harbor.....	W. A. Shirreff.....	12	6	9 do (to Dec. 31, '88).....	258 75
do do.....	H. Somerville.....	12	6	3 do from do.....	68 50
Arnprior and Railway Station.....	H. Hatton.....	$\frac{1}{2}$	24	12 do.....	174 72
Arnprior and White Lake.....	P. Doolan.....	20	3	12 do.....	275 00
Arthur and Fergus.....	J. Moriarty.....	12	6	12 do.....	223 00

## DETAIL of all payments for Mail Transportation in Ontario, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Arthur and Metz.	J. R. Bell.	6	2	7 months (to Oct. 31, '88)	46 66
do do	R. J. Williams.	6	2	5 do from do	33 33
Arthur and Monck.	W. Hamilton.	13	2	12 do	170 00
Arthur and Railway Station.	J. Buschlen.	1	24	12 do	125 00
Arva and Ballymore.	J. H. Shoebottom.	3	2	12 do	65 00
Ash and Railway Station.	W. H. Dorland.	1	6	12 do	35 00
Ashdad and Railway Station.	S. Felleter.	3	3	12 do	25 00
Ashdad Railway Station and Sheedy.	M. Sheedy.	9	3	1 do (from Mar. 1, '89)	12 50
Ashdown and Bear Cove.	H. Bishton.	8	1	12 do	40 00
Ashdown and Turtle Lake.	A. H. Ashdown.	6	1	12 do	60 00
Ashdown and West Grove.	M. E. West.	4	1	12 do	40 00
Ashgrove and Georgetown.	E. Nixon.	4	6	12 do	225 00
Ashley and Rockford Station.	G. Follis.	1	3	12 do	50 00
Ashton and Prospect.	W. Burrows.	11	3	12 do	235 00
Ashton and Railway Station.	H. S. Conn.	2	6	12 do	100 00
Atherley and Railway Station.	E. Lanigan.	1	12	12 do	160 00
Atherton and Delhi.	G. C. Wilson.	3	2	9 do (to Dec. 31, '88).	33 75
do do	A. Wilson.	3	2	3 do from do	11 25
Athlone and Tottenham.	S. E. Turner.	17	6	12 do	220 00
Attercliffe and Railway Station.	J. Sundry.	1	12	12 do	78 24
Atwood and Mitchell.	J. McKoy.	17	6	12 do	432 00
Atwood and Railway Station.	D. Gordon.	6	6	12 do	52 00
Auburn and Blyth, &c.	W. J. Moore.	6 & 9	6 & 3	2 do (to May 31, '88).	62 33
do do	do	6 & 12	6 & 3	10 do from do	330 62
Aughrim and Bothwell.	R. J. Armstrong.	10	6	9 do (to Dec. 31 '88).	216 75
do do	W. McAlpine.	10	6	3 do from do	82 25
Aughrim and Mosside.	A. T. Augustine.	6	3	9 do (to Dec. 31, '88).	63 00
do do	J. McCabe.	6	3	3 do from do	25 00
Auguston and Horning's Mills.	W. August.	3	2	12 do	23 00
Aultsville and Bush Glen.	G. Bush.	9	2	12 do	00 00
Aultsville and East Williamsburg.	G. A. Summers.	3	6	12 do	72 00
Aurora and Railway Station.	D. W. Doan.	1	24	12 do	120 00
Aurora and Schomberg.	H. Isaacs.	15	6	9 do (to Dec. 31, '88).	336 00
do do	E. Ashberry.	15	6	3 do (from do)	112 00
Aurora and White Rose.	D. W. Doan.	12 r. t.	3	12 do	150 00
Avening and Railway Station.	J. Pingle.	1	12	12 do	120 00
Avon, Putnam and Railway Station.	A. C. Kinnee.	6	6 & 12	12 do	350 00
Avonry and Wilkesport.	J. Burden.	2	2	12 do	40 00
Axe Lake and Charlino.	J. McPherson.	7	1	12 do	40 00
Aylmer and Dorchester Station.	R. Learn.	20	6	12 do	400 00
Aylmer and Dunboyne.	W. S. Pierce.	31	6	12 do	500 00
Aylmer and Railway Station.	do	1	24	12 do	312 00
Aylmer and Seville.	R. C. Wright.	4	2	12 do	48 00
Ayr and Railway Station.	W. Hilborn.	1	24	12 do	199 04
Ayton and Railway Station.	H. Ringel.	1	12	12 do	90 00
Baby's Point and Port Lambton.	W. H. McDonald.	1	3	12 do	50 00
Baden and Wellesley.	C. Harefeld.	9	6	12 do	350 00
Badgeros and McIntyre.	N. D. McKinnon.	3	3	7 do (from Sept. 1, '88)	35 00
Bagot and Burnstown.	A. Wilson.	5	3	6 do (to Sept. 30, '88).	40 00
Bainville and Railway Station.	D. McCaig.	1	6	12 do	50 00
Bala and Glen Orchard.	N. Orchard.	8	2	6 do (to Sept. 30, '88).	51 60
do do	I. White.	8	2	3 do from do	16 15
Bala and Sahanatian.	L. Sahanatian.	9	1	12 do	50 00
Baldwin and Railway Station.	L. Grylls.	1	12	12 do	50 25
Ballantrae and Railway Station.	R. Hill.	1	12	12 do	60 00
Ballantyne's Station and Ry. Station.	J. Hysop.	1	2	12 do	26 00
Ballinafad and Georgetown.	J. W. McKee.	6	6	12 do	250 00
Ballinvilla and South March.	P. Orchard.	4	2	12 do	40 00
Balsam Grove and Fenelon Falls.	J. Copp.	6	2	12 do	85 00
Balsam Lake and Victoria Road.	J. Cunningham.	4	2	12 do	72 00
Bamberg and St. Agatha.	F. Walter.	5	2	12 do	72 00
Banbury and Haldane Hill.	J. Barry.	6	1	3 do (to June 30, '88).	6 25
Banbury and Sprucedale.	do	6	1	9 do from do	33 75
Bancroft and Cheddar.	B. H. Sweet.	21	1	12 do	125 00



DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Bancroft and Pandash Lake.....	J. McLellan.....	11	1	6 months (to Sep. 30, '88)	25 00
Bancroft and Wood.....	do.....	11	1	6 do from do	25 00
Banda and Glencairn.....	J. D. Carveth.....	23 <sup>1</sup> / <sub>2</sub>	6	12 do	170 00
Banda and Scarlet Hill.....	E. Lennox.....	34 <sup>1</sup> / <sub>2</sub>	2	12 do	75 00
Banks and Collingwood.....	W. Johnson.....	8	2	12 do	107 50
Bannockburn and Railway Station.....	S. McEwen.....	1 <sup>1</sup> / <sub>2</sub>	12	12 do	60 00
Bardsville and Falkenburg.....	C. Bard.....	63 <sup>1</sup> / <sub>2</sub>	2	9 do (to Dec. 31, '88)	48 00
Barkaway and Germania.....	S. McCord.....	23 <sup>1</sup> / <sub>2</sub>	2	12 do	75 00
Barkerton and Commanda.....	R. Barrett.....	16	3	12 do	395 00
Barkerton and Railway Station.....	N. McEachern.....	1 <sup>1</sup> / <sub>2</sub>	6	6 do (to Sept. 30, '88)	14 50
do do.....	M. Corkery.....	4 <sup>1</sup> / <sub>2</sub>	6	6 do from do	25 00
Bark Lake and Brudenell.....	T. Cuthbertson.....	22	1&2	3 do (to Dec. 31, '88)	47 50
do do.....	J. Billings.....	22	1&2	3 do from do	47 50
Bark Lake and Murchison.....	J. Taylor.....	17	1	6 do (to Sept. 30, '88)	50 00
do do.....	B. Reynolds.....	17	1	6 do from do	60 00
Bark Lake and Rockingham.....	T. Culbertson.....	21	1&2	6 do (to Sept. 30, '88)	95 00
Barrie and Hillsdale.....	C. Davis.....	16	6	12 do	275 00
Barrie and Midhurst.....	G. G. Smith.....	5	3	12 do	93 00
Barrie and Railway Station.....	W. H. Crosby.....	1 <sup>1</sup> / <sub>2</sub>	66	12 do	205 92
Barrie and Street Letter Boxes.....	M. Murphy.....	5	18	12 do	250 00
Barrie and Wharf.....	W. H. Crosby.....	...	12	Season 1888.....	20 75
Barriefield and Kingston.....	J. Ryan.....	13 <sup>1</sup> / <sub>2</sub>	6	12 months	75 00
Barrie Island and Gore Bay.....	H. L. McLean.....	12	1	1 do (to April 30, '88)	9 56
do do.....	W. N. Runnalls.....	12	1	11 do from do	91 66
Bar River and Garden River.....	J. Evoy.....	15	1	12 do	75 00
Barryvale and Railway Station.....	P. Barry.....	150 yd	6	2 do (to Mar. 31, '89)	2 50
Basin Depot and Eganville.....	R. Reeves.....	49	1	12 do	300 00
Bath and Railway Station.....	W. Aylesworth.....	33 <sup>1</sup> / <sub>2</sub>	12	12 do	148 00
Bath and Stella.....	A. Stevenson.....	61 <sup>1</sup> / <sub>2</sub>	6	12 do	332 31
Batteau and Railway Station.....	W. Bourchier.....	1 <sup>1</sup> / <sub>2</sub>	12	12 do	46 96
Battersea and Kingston.....	A. Ferguson.....	16	3	12 do	139 48
Battle Hall and Cooper's Falls.....	A. Cooper.....	10	1	12 do	50 00
Bayfield and Clinton.....	R. Beattie.....	123 <sup>1</sup> / <sub>2</sub>	6	9 do (from July 1, '88)	202 50
Bayfield, Seaforth and Ry. Station.....	D. Hay.....	15	6&12	3 do (to June 30, '88)	97 50
Bayham and Ingersoll.....	W. H. Cook.....	20	6	12 do	395 00
Bayside and Belleville.....	W. B. Wemp.....	8	3	12 do	50 00
Baysville and Bracebridge.....	F. Sander.....	16	6	12 do	300 00
Baysville and Dorset.....	G. F. Marsh.....	16	1	12 do	100 00
Baysville and Maple Ridge.....	J. Garrison.....	8	1	Season, 1888.....	31 00
Baysville and Menominee.....	I. Williams.....	5	1	10 months (to Jan. 31, '89)	41 67
do do.....	F. M. Williams.....	5	1	2 do from do	8 33
Bayview and Morley.....	J. Lemon.....	11	2	12 do	140 00
Beachburg and Gower Point.....	T. M. Carswell, jr.....	9	2	12 do	117 50
Beachburg and Westmeath.....	H. A. O'Brien.....	7	6	12 do	180 00
Beachville and Embro.....	J. B. Johnson.....	6	6	12 do	140 00
Beamsville and Campden.....	J. B. Grobb.....	5	6	12 do	225 00
Bearbrook and Canaan.....	R. Bowden.....	19 r. t.	3	12 do	200 00
Bearbrook and Railway Crossing.....	do.....	3	6	12 do	100 00
Beatrice and Falkenburg.....	M. Moore.....	4	3	Part of seasons 1887-88 & 1888-89.....	42 00
Beaverton and Railway Station.....	A. Hamilton.....	1 <sup>1</sup> / <sub>2</sub>	24	12 months	150 00
Becher and Wallaceburg.....	J. R. McDonald.....	5	3	12 do	70 00
Beckstead and Dunbar.....	A. G. Colquhoun.....	13	3	12 do	116 00
Bedford Mills and Newboro'.....	J. Woodman.....	6	3	12 do	70 00
Beechwood and Seaforth.....	J. J. McKenna.....	61 <sup>1</sup> / <sub>2</sub>	2	9 do (to Dec. 31, '88)	63 75
do do.....	G. K. Holland.....	64 <sup>1</sup> / <sub>2</sub>	2	3 do from do	21 25
Beeton and Railway Station.....	H. E. Kinsey.....	1 <sup>1</sup> / <sub>2</sub>	12	12 do	95 00
Belfast and Lanes.....	J. Mullin.....	4	2	12 do	80 00
Belfast and St. Helen's.....	do.....	23 <sup>1</sup> / <sub>2</sub>	6	12 do	150 00
Belfountain and Railway Station.....	M. G. Byam.....	1 <sup>1</sup> / <sub>2</sub>	6	12 do	75 00
Belgrave and Bushfield.....	J. Newcombe.....	6	2	12 do	75 00
Belgrave and Marnoch.....	P. Porterfield.....	33 <sup>1</sup> / <sub>2</sub>	3	12 do	60 00
Belgrave and Railway Station.....	S. Morley.....	3	12	12 do	132 00
Belle River and Byrnedale.....	W. Byrne.....	51 <sup>1</sup> / <sub>2</sub>	1	12 do	55 00
Belleville and Albert College.....	H. W. Cronk.....	12 <sup>1</sup> / <sub>2</sub>	6	12 do	25 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Belleville and Belleville Station....	H. W. Cronk....	14	12	10 months 11 dys. (from May 21, '88)...	64 71
Belleville and Bridgewater .....	J. Campbell, jr. ....	30	6	12 do .....	800 00
Belleville and Madoc.....	W. Wooley.....	27	6	12 do .....	460 00
Belleville and Railway Station....	H. W. Cronk.....	14	24	12 do .....	312 00
Belleville and Sidney Crossing....	W. Vandervoort....	6½	2	12 do .....	80 00
Belleville and Street Letter Boxes..	H. W. Cronk.....	5	12	12 do .....	250 00
Belleville and Wallbridge.....	F. B. Prior.....	9	3	12 do .....	110 00
Bell Ewart and Lefroy Station.....	A. Munro.....	1	12	3 do (to June 30, '88)	20 00
do do .....	F. McKay.....	1	12	9 do from do ..	60 00
Bell Ewart and Roach's Point.....	T. Ellis.....	2	6	Season, 1888.....	70 76
Belmont and London.....	C. W. Barrows.....	13	6	12 months .....	145 00
Belmont and Railway Station.....	J. Evans.....	½	12	12 do .....	69 00
Belton and Railway Station.....	J. Gibson.....	12	12	12 do .....	40 00
Belton and St. Ives.....	H. Powell.....	9½	2	12 do .....	117 76
Belwood and Craigsholme.....	J. Hanna.....	3	3	12 do .....	60 00
Belwood and Dracon.....	do .....	7½	2	12 do .....	71 00
Belwood and Railway Station.....	do .....	½	12	12 do .....	65 00
Bendale and Woburn.....	J. Chester, Ex'r. ....	2	6	9 do (to Dec. 31, '88).	60 00
do do .....	J. Yeoman.....	2	6	3 do from do ..	20 00
Benmiller and Goderich.....	J. Miller.....	6	3	12 do .....	150 00
Benoit's Mills and Nosbonsing.....	E. Benoit.....	6	3	7 do 18 days (from Aug. 14, '88)...	31 52
Bensfort and South Monaghan.....	E. Stirton.....	5	3	12 do .....	75 00
Bentpath and Dresden.....	J. McLachlin.....	6	2	12 do .....	50 00
Berkeley and Glascott.....	R. English.....	6	2	12 do .....	84 00
Berkeley and Railway Station.....	J. Lund.....	½	6	12 do .....	80 00
Berlin and Crosshill.....	J. T. Wilford.....	16½	6	12 do .....	390 00
Berlin and Glen Allan.....	T. Hunt.....	24	6	12 do .....	317 00
Berlin and Street Letter Boxes.....	H. Bachman.....	4	18	12 do .....	200 00
Berlin and West Montrose.....	H. Whitcher.....	14½	6	12 do .....	375 00
Berriedale and Denville.....	J. A. Crawford.....	5	3	6 do (from Oct. 1, '88)	58 50
Berriedale and Hartfell.....	J. Duke.....	8	2	6 do from do ..	74 50
Berriedale and Railway Station.....	J. A. Crawford.....	1½	3	6 do from do ..	19 50
Bethany and Railway Station.....	U. M. Kelly.....	17	12	12 do .....	90 00
Bethel and The Corners.....	J. Robinson.....	4	6	6 do (to Sept. 30, '88).	16 25
do do .....	R. Robinson.....	4	6	6 do from do ..	20 00
Bewdley and Millbrook.....	H. Atkins.....	11	6	12 do .....	350 00
Bickford and Railway Station.....	F. W. Johnson.....	100 yd	12	8 do (from Aug 1, '88)	20 00
Big Point and Dover South.....	A. Cheff.....	74	2	12 do .....	57 50
Billings Bridge and Ottawa.....	S. Davidson.....	3	6	12 do .....	150 00
Binbrook and Glanford Station.....	R. Wickett.....	5	6	9 do (to Dec. 31, '88)..	133 50
do do .....	A. Wickett.....	5	6	3 do from do ..	44 50
Binkham and Erin.....	W. Wansborough.....	4½	2	12 do .....	70 00
Birdsalls and Railway Station.....	J. Lancaster.....	1	6	12 do .....	4 00
Birds Creek and Hybla.....	A. Sutherland.....	5	1	12 do .....	35 00
Birr and Devizes, &c.....	J. Goulding.....	5 & 7	6 & 2	3 do (to June 30, '88).	67 50
do do .....	J. Lambourne.....	5 & 7	6 & 2	9 do from do ..	165 00
Biscotasing and Railway Station.....	J. Stuart.....	50 ft.	12	9 do (to Dec. 31, '88)..	11 75
do do .....	P. J. Finlan.....	50 ft.	12	3 do from do ..	3 85
Bishop's Mills and Prescott.....	C. W. Knapp.....	16	3	12 do .....	255 00
Bissett's Creek and Railway Station	J. H. Dickson.....	20 yd.	9	9 do (to Dec. 31, '88)..	7 50
do do .....	C. Carmichael.....	20 yd.	12	3 do from do ..	2 50
Black Bank and Lisle.....	N. Duffin.....	10	3	12 do .....	200 00
Blackburn and Orleans.....	R. Dagg.....	3	3	12 do .....	50 00
Black Creek and Railway Station.....	I. H. Allen.....	4	12	12 do .....	62 40
Black's Corners and Laurel.....	J. Graham.....	4	1	12 do .....	32 00
Black River Bridge and Picton.....	G. McGuire.....	7½	3	12 do .....	98 00
Blackstock and Cadmus.....	T. W. Robertson.....	2½	6	12 do .....	100 00
Blackstock and Purple Hill.....	W. Bartley.....	4	2	12 do .....	55 00
Blackwater and Railway Station.....	J. Hanna.....	17	24	8 do (to Nov. 30, '88).	41 73
do do .....	J. Ruddy.....	17	24	4 do from do ..	20 87
Blackwell Station and Ry. Station..	P. Wellington, jr.....	½	2	12 do .....	26 00
Blair and Railway Station.....	J. Renshaw.....	18	5	12 do .....	20 00
Blairhampton and Minden.....	W. Blair.....	10	1	12 do .....	52 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Blairton and Havelock.....	M. J. Peters.....	8	3	12 months.....	141 68
Blairton and Wariston.....	J. A. Allan.....	9	2	5 do (from Nov. 1, '88)	41 66
Blandford Station and Ry. Station..	A. Church.....	1 1/2	11	12 do	28 00
Blenheim and Leamington.....	J. J. Minnis.....	32 3/4	6	12 do	1,195 00
Blenheim and Morpeth.....	C. H. Jones.....	10	6	3 do (to June 30, '88).	75 00
do do	M. C. Dexter.....	10	6	9 do from do	206 25
Blenheim and Railway Station.....	J. M. Burk.....	12	3	do (to June 30, '88).	18 75
do do	G. A. Breeze.....	12	9	do from do	37 44
Blenheim and Rondeau.....	J. M. Burk.....	5	3 & 6	12 do	136 00
Blessington and Shannonville.....	P. McKenny.....	5	2	12 do	45 00
Blind River and Railway Station.....	G. A. Butterfield.....	1 1/2	6	5 do (from Nov. 1, '88)	23 40
Blind River and Thompson.....	W. E. Bateman.....	13	1	42 do	104 00
Bloomfield and Railway Station.....	A. B. Saylor.....	1 1/2	12	12 do	74 88
Blount and Glen Cross.....	W. Woods.....	2 1/2	3	12 do	39 00
Bleuval and Railway Station.....	J. Gardner.....	12	12	12 do	139 00
Blyth and Railway Station.....	L. H. Shane.....	3	24	12 do	175 00
Bobcaygeon and Lindsay.....	H. Workman.....	22	6	12 do	900 00
Bobcaygeon and Peterboro.....	W. H. Bottum.....	22	6	12 do	700 00
Bogart and Chapman.....	T. Meraw.....	7	3	12 do	78 00
Bognor and Woodford.....	W. D. Rorke.....	6	3	12 do	80 00
Bornholm and Brodhaven.....	G. Leonhardt.....	4	3	12 do	135 00
Bornish and Sable.....	A. McDonald.....	3	2	12 do	45 00
Borromee and Orleans.....	A. Chartrand.....	4	1	12 do	25 00
Boskung and Minden.....	J. Beatty.....	14	1	12 do	65 00
Bosworth and Riverbank.....	J. G. Hollis.....	3	2	12 do	50 00
Botany and Thamesville.....	P. M. McBrayne.....	5 1/2	2	12 do	84 00
Bothwell and Clachan.....	A. McArthur.....	6	3	12 do	100 00
Bothwell and Florence.....	J. G. Armstrong.....	9	6	12 do	260 00
Bothwell and Moravian Town.....	W. Goodling.....	4	2	12 do	65 00
Boulter and Combermere.....	J. Lynch.....	18	3	12 do	300 00
Boulter and L'Amable.....	M. McLean.....	22 1/2	3	9 do (to Dec. 31, '88).	226 50
do do	E. J. Lume.....	24 1/2	3	3 do from do	75 50
Bourdeau and Sprucedale.....	W. H. Rhamey.....	6	2	4 do (from Dec. 1, '88)	16 67
Bowesville and Railway Station.....	P. Nelligan.....	2	3	12 do	49 48
Bowling Green and Laurel.....	J. Davis.....	3 1/2	2	9 do (to Dec. 31, '88).	44 43
Bowling Green & Laurel Ry. Station	R. Banks.....	5	6	3 do from do	39 75
Bowmanville and Cæsarea.....	J. H. McCrea.....	22	6	12 do	500 00
Bowmanville and Courtice.....	C. W. Lent.....	4 1/2	3	12 do	80 00
Bowmanville and Tyrone.....	J. Moore.....	7	6	12 do	143 00
Bracebridge and Fraserburg.....	H. Hamilton.....	12	1	9 do (to Dec. 31, '88).	60 00
do do	J. Clark.....	12	1	3 do from do	19 25
Bracebridge and Muskoka Falls.....	A. R. Cameron.....	3	3	12 do	85 80
Bracebridge and Point Kaye.....	C. Kaye.....	20	2	Part of seasons 1887-88 and 1888-89	84 00
Bracebridge and Port Carling.....	C. McCully.....	21	2	Part of season 1888.....	20 70
Bracebridge and Railway Station.....	F. Sander.....	1 1/2	12	12 months	75 00
Bracebridge and Wharf.....	do.....	1 1/2	12	Season 1888.....	45 75
Bracebridge and Ziska.....	J. Killen.....	6	2	do	40 40
Brackenrig and Port Carling.....	F. J. Davidson.....	4	2	do	31 41
Bradford, Bond Head and Newton Robinson.....	J. McDermott.....	9 & 6	6 & 12	6 months (to Sep. 30, '88)	162 50
Bradford and Newton Robinson.....	do.....	9	6	6 do from do	200 00
Bradford and Railway Station.....	do.....	1 1/2	24	12 do	75 00
Bradshaw and Brigden.....	W. Bradshaw.....	5	2	12 do	65 00
Brasside and Railway Station.....	J. Gillies.....	1 1/2	12	12 do	50 00
Brae Lake and Uplands.....	W. J. Taylor.....	8 1/2	1	12 do	56 00
Bramley and Catching Post.....	J. Gordon.....	1 1/2	12	12 do	50 00
Brampton and Huttonsville.....	C. Brooks.....	4	3	12 do	88 00
Brampton and Nortonville.....	J. Norton.....	3	3	12 do	50 00
Brampton and Railway Station.....	A. J. Hood.....	3 1/2	12	12 do	100 00
Brandy Creek and Railway Station.....	J. Wintermute.....	1 1/2	6	12 do	40 00
Brantford and Harley.....	R. Cavin.....	14	6	12 do	364 00
Brantford and Langford.....	W. Reed.....	8	6	12 do	196 00
Brantford and Mohawk, &c.....	A. S. Beecham.....	12 & 4	3 & 6	12 do	270 00
Brantford and Railway Station.....	J. Hale.....	1	54	12 do	421 20

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Brantford and Simcoe.....	W. P. Croome..	24	6	12 months (less fine)....	848 00
Brantford and Street Letter Boxes.	A. D. Clement..	3 $\frac{3}{4}$	12	9 do (from July 1, '88)	234 00
Brays Crossing and Railway Station	C. Bray .....	20 yds	2	12 do .....	7 50
Breadalbane and Vankleek Hill...	C. Campbell....	5	3	12 do .....	60 00
Brechin and Dalrymple.....	E. Vickers.....	9	3	12 do .....	170 00
Brechin and Evansvale.....	S. Luck .....	5 $\frac{1}{4}$	3	12 do .....	100 00
Brechin and Railway Station.....	do .....	2	12	11 do .....	90 00
Brentwood and Railway Station...	J. O'Connell....	$\frac{1}{2}$	12	12 do .....	50 00
Breslau and Weissenburg .....	A. Hoch.....	8	6	12 do .....	250 00
Brewster and Parkhill.....	F. Gratton .....	16	3	3 do (to June 30, '88).	49 25
do do .....	S. Gratton .....	16	3	9 do from do .....	111 75
Brigden and Railway Station.....	J. Armstrong....	$\frac{1}{4}$	12	12 do .....	86 00
Bright and Washington, &c.....	A. Gatzka .....	6 & $\frac{1}{4}$	6 & 12	12 do .....	239 00
Brighton and Campbellford.....	P. Richards....	20	6	12 do .....	384 00
Brighton and Lovett.....	W. Bate .....	6 $\frac{1}{2}$	6	12 do .....	195 00
Brisbane and Coningsby.....	J. W. Burt .....	4	2	12 do .....	40 00
Britton and Hammond.....	M. A. Alexander	1 $\frac{1}{2}$	3	12 do .....	45 00
do do .....	do .....	$\frac{1}{4}$	6	12 do .....	60 00
Britton and Railway Station.....	do .....	$\frac{1}{4}$	6	12 do .....	325 00
Brockville and Morristown.....	D. H. Lyon.....	2	6	12 do .....	86 25
Brockville and Railway Station...	J. Cavanagh....	1	7	12 do (less fine)....	210 60
do do .....	W. Curry .....	1	18	12 do .....	40 00
Brockville and Sherwood Springs..	W. Kilmury .....	8	1	12 do .....	100 00
Brockville and Street Letter Boxes.	J. McKenny....	3 $\frac{1}{2}$	as req.	12 do .....	984 00
Brockville and Westport.....	R. W. & T. Cope-	44	6	12 do .....	370 00
land .....	land .....	20 yds	as req.	12 do .....	125 20
Brockville—C. P. Ry. and G. T. Ry.	J. Cavanagh....	1 $\frac{1}{4}$	12	12 do .....	190 00
Bronte and Railway Station.....	J. McDonnell....	1 $\frac{1}{4}$	12	12 do .....	6 98
Bronte Station and Palermo.....	A. Coffee.....	3	6	12 do .....	48 35
Brooke and Manion.....	J. Conlen.....	7	1	12 days (to April 12, '88).	50 00
Brooke and Wemyss.....	B. McKeracher.	2 $\frac{1}{2}$	2	11 months 18 days (from April 13, '88).....	75 00
					50 00
Brookfield Station and Ry. Station	M. Topp.....	2	6	12 months .....	50 00
Brookholm and Owen Sound.....	J. Mills .....	2	3	12 do .....	50 00
Brookholm and Shouldice.....	T. Skinner .....	7	1	12 do .....	70 00
Brooklin and Railway Station.....	R. D. Hay.....	$\frac{1}{2}$	12	12 do .....	45 00
Brotherston and Newbridge.....	M. Brothers....	2	2	12 do .....	137 50
Brougham and Markham.....	F. G. Percy.....	13	6	6 do (to Sept. 30, '88).	200 00
do do .....	S. G. Reesor....	13	6	6 do from do .....	400 00
Brougham and Whitby.....	J. Scott.....	12	6	12 do .....	30 00
Brown Hill and Ravenshoe Station.	J. Brown.....	80 rods	12	12 do .....	106 08
Brucefield and Railway Station...	W. Dixon.....	$\frac{1}{4}$	12	12 do .....	10 00
Bruce Mines and Cloudslee.....	N. McEwan .....	5	1	3 do from Jan. 1, '89.	216 00
Bruce Mines and Cockburn Island.	C. Hendrickson	42	1	Part of seasons 1887-88 and 1888-89.....	52 00
					62 00
Bruce Mines and Desert.....	J. Robinson .....	16	1	6 months (to Sept. 30, '88).	156 00
do do .....	R. E. Miller....	16	1	6 do from do .....	58 50
Bruce Mines and Port Finlay.....	C. Hendrickson.	22	2	Season, 1888.....	8 66
Bruce Mines and Railway Station..	J. Hicks.....	2	6	4 months 16 days (from Nov. 15, '88).....	80 00
					130 00
Bruce Mines and Rydal Bank.....	W. R. Smyth....	6	1	2 months (from Feb. 1, '89)	30 00
Brudenell and Castile.....	E. Bennett.....	9	1	12 do .....	60 00
Brudenell and Emmett.....	E. Ring .....	13	2	12 do (and arrears)....	162 00
Brunner and Railway Station.....	J. Attridge.....	$\frac{1}{4}$	6	12 do .....	150 00
Brunswick and Railway Station...	L. C. Patterson.	$\frac{1}{4}$	6	12 do .....	12 00
Brussels and Cranbrook.....	P. McDonald....	5	6	12 do .....	174 00
Brussels and Railway Station.....	R. & S. Beattie.	$\frac{1}{4}$	12	12 do .....	147 00
Bulger and Bulger's Corners.....	T. Gorman.....	$\frac{1}{4}$	3	12 do .....	120 00
Burford and Cathcart, &c.....	R. French.....	8 & $\frac{1}{2}$	3 & 6	12 do .....	90 00
Burgess Corners and Douglas.....	W. Whitelaw....	5	6	6 do (to Sept. 30, '88).	130 00
Burgessville and Newark.....	M. Springer....	5	6	6 do from do .....	49 92
do do .....	J. Heath.....	5	6	6 do .....	27 50
Burgessville and Oriel.....	W. B. Somerville	8	3	12 do .....	97 00
Burgessville and Railway Station..	E. W. Burgess..	$\frac{1}{4}$	12	12 do .....	
Burk's Falls and Chetwynd.....	J. A. Rumohr....	5	1	6 do (from Oct. 1, '88)	
Burk's Falls and Denville.....	J. A. Crawford..	9 $\frac{1}{2}$	3	6 do (to Sept. 30, '88).	

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Burk's Falls and Dunchurch.....	D. McMillan...	29	3	Part of seasons 1887-88 and 1888-89.....	140 00
Burk's Falls and Hartfell.....	J. Duke.....	15½	2	6 months (to Sept. 30, '88)	86 50
Burk's Falls and Railway Station..	R. H. Menzies..	1	12	12 do .....	153 75
Burlington and Port Nelson.....	W. Bamford.....	1½	6	12 do .....	90 00
Burlington and Railway Station....	H. Bray.....	1½	6	6 do (to Sept. 30, '88).	43 64
do do .....	W. Bamford.....	1½	6	6 do from do .....	45 00
Burlington Beach and Ry. Station..	J. Hughes.....	1	12 & 3	Part of seasons 1887-88, and 1888-89.....	51 60
Burlington Station and Zimmerman	C. F. Cartwright	9	6	12 months .....	280 00
Burnaby and Railway Station.....	W. A. Kinnard..	2	3	12 do .....	50 00
Burnbrae and Railway Station.....	A. T. Donald....	5	6	12 do .....	159 00
Burnbrae and Stanwood.....	A. E. Loucks....	11½	2	12 do .....	98 00
Burnley and Castleton.....	D. Welton.....	8	3	12 do .....	120 00
Burnstown and Springtown.....	A. Nelson.....	5	3	6 do (from Oct 1, '88).	40 00
Burnt River and Rettie's Station..	S. Moore, Exec'x	½	6	12 do .....	80 00
Burritts Rapids & North Montague	J. A. Ormond....	7	1	12 do .....	52 00
Burys Green and Fells Station.....	J. Fell.....	2½	2	12 do .....	46 80
Byng Inlet and French River.....	J. Lamondin....	25	ftnly.	Part of seasons 1887-88 and 1888-89.....	72 00
Byng Inlet North and Parry Sound	do .....	65	2	do .....	530 00
Byron and London.....	J. Charles.....	6	6	12 months .....	160 00
Cahore and Chrysler.....	G. S. Johnstone.	4	3	12 do .....	62 00
Caistorville and Winona.....	J. Williams.....	20	3	4 do (to July 31, '88).	81 66
Calabogie and High Falls.....	T. Dillon.....	7	1	12 do .....	43 08
Calabogie and Railway Station.....	D. Dillon.....	¼	6	12 do .....	58 00
Calder and Railway Station.....	H. G. Jones.....	2½	2	12 do .....	55 00
Calderwood and Railway Station....	A. Calder.....	3	3	12 do .....	80 00
Caldwell and Caledon.....	N. Patterson....	4	6	12 do .....	186 25
Caldwell's Mills and Ry. Station...	W. Reid.....	¾	6	12 do .....	40 00
Caledon and Railway Station.....	N. Patterson....	½	18	12 do .....	81 00
Caledonia and Cayuga.....	E. Wigg.....	11	6	12 do .....	410 00
Caledonia and Conboyville.....	S. Arrell.....	6	2	12 do .....	70 00
Caledonia and North Seneca.....	F. Dawson.....	3	6	12 do .....	112 00
Caledonia and Railway Stations....	P. McMullen....	½	36	12 do .....	159 12
Caledonia and Six Nations.....	J. A. Beaver.....	4	2	12 do .....	57 50
Caledonia Springs and L'Orignal....	W. K. Cross.....	9	3	6 do (to Sept. 30, '88).	78 00
do do .....	I. Lalonde.....	9	3	6 do from do .....	77 50
do do .....	J. Lacombe.....	9	3	Season 1888 .....	52 00
Callander and Railway Station.....	T. Steele.....	1½	6	12 months .....	31 28
Callander and Wisawasa.....	R. W. Graham....	2½	3	12 do .....	78 00
Cambray, Lindsay and Ry. Station..	R. Moffatt.....	8 & 10½	6	6 do (to Sept. 30, '88).	150 00
Cambray and Lindsay.....	W. Jackson.....	9	6	6 do from do .....	135 00
Cameron and Railway Station.....	J. Bryson.....	¾	12	12 do .....	120 00
Camerontown and Railway Station	E. Cameron.....	200yds	12	12 do .....	49 92
Camerontown and Summerstown...	A. Cameron.....	3	6	12 do .....	96 00
Camilla and Granger.....	W. Dynes.....	6½	2	12 do .....	78 00
Camilla and Whittington.....	T. Sanderson....	4½	3	12 do .....	75 00
Camlachie and Hillsborough.....	R. Blain.....	9	2	12 do .....	156 00
Campbellcroft and Railway Station	A. Smith.....	70 ft.	6	12 do .....	35 00
Campbell's Cross, Cheltenham and Railway Station.....	A. Campbell.....	½ & 21rt	12 & 6	12 do .....	339 00
Campbellford and Godolphin.....	C. Aggett.....	5	2	12 do .....	68 00
Campbellford and Railway Station	Mulhearn & Logan	½	12	12 do .....	93 60
Campbellville and Railway Station	S. R. Lister.....	¾	6	12 do .....	50 00
Campbellville Station and Nassagaweya.....	J. Easterbrook..	5½	6	12 do .....	200 00
Campbellton and West Lorne.....	J. Martin.....	6½	3	12 do .....	190 00
Campden and Rosedene.....	J. B. Grobb.....	6	3	12 do .....	130 00
Camperdown and Changing Post....	J. Barclay.....	4 rods	12	12 do .....	10 00
Canboro, Canfield and Warner.....	I. Swayze.....	6 & 2½	6 & 3	12 do .....	197 16
Canfield and Railway Station.....	J. Switzer.....	1½	12	12 do .....	62 40
Canning and Paris Station.....	H. Oliver.....	4½	6	12 do .....	199 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Cannington and Pefferlaw .....	G. Newson .....	10	3	12 months .....	174 00
Cannington and Railway Station .....	R. J. Harwood .....	$\frac{1}{2}$	24	6 do (to Sept. 30, '88).	30 00
do do .....	W. Cassidy .....	$\frac{1}{2}$	24	6 do from do .....	30 00
Cape Croker and Colpoys Bay .....	W. D. Bell .....	15	2	3 do (to June 30, '88).	50 00
do do .....	E. Cross .....	15	2	9 do from do .....	150 00
Cape Rich and Meaford .....	R. Cox .....	10	2	12 do .....	120 00
Carden and Horncastle .....	R. Cowan .....	4	2	9 do (to Dec. 31, '88)..	37 50
do do .....	G. Sharp .....	4	2	3 do from do .....	12 50
Cardinal and Hyndman .....	J. Hyndman .....	13	3	12 do .....	200 00
Cardinal and Railway Station .....	W. Stitt .....	1	14	12 do .....	73 00
Cargill and Railway Station .....	C. W. Keeling .....	$\frac{1}{2}$	12	12 do .....	96 00
Carleton Place and Railway Station .....	P. P. Salter .....	$\frac{1}{2}$	36	12 do .....	374 40
Carleton West and Railway Station .....	J. Hayes .....	$\frac{1}{2}$	12	15 do .....	62 50
Carlingford and Sebringville .....	R. Crawford .....	$\frac{1}{2}$	8	3 12 do .....	148 16
Carluke and Hamilton .....	W. Young .....	$\frac{1}{2}$	13	6 12 do .....	400 00
Carlsruhe and Railway Station .....	C. Lobsinger .....	$\frac{1}{2}$	1	12 12 do .....	110 00
Carmunook and Monkton .....	A. Campbell .....	4	2	12 do .....	60 00
Carp and Elm .....	N. Smith .....	3	3	6 do (to Sept. 30, '88).	37 50
do do .....	J. Gilchrist .....	3	3	6 do from do .....	37 50
Carrville and Patterson .....	J. Coombs .....	$\frac{1}{2}$	6	11 do (to Feb. 28, '89)..	73 33
Carrville and Sherwood .....	do .....	2	6	1 do from do .....	6 66
Cartier and Railway Station .....	C. Landers .....	20 ft.	12	12 do .....	10 00
Carsonby and North Gower .....	A. Eastman .....	$\frac{1}{2}$	3	2 12 do .....	61 25
Carswell and Railway Station .....	D. Carswell .....	3	2	12 do .....	53 00
Carthage and Tralee .....	B. Donagan .....	2	3	12 do .....	40 00
Cashion's Glen and Cornwall .....	J. J. Cashion .....	13	3	12 do .....	250 00
Cashtown and Creemore .....	W. Cotton .....	2	6	12 do .....	100 00
Casselman and Crysler .....	B. Coriar .....	11	6	12 do .....	197 00
Casselman and Railway Station .....	R. A. Castleman .....	$\frac{1}{2}$	12	12 do .....	25 00
Cassels and Railway Station .....	S. Robertson .....	$\frac{1}{2}$	3	12 do .....	207 48
Castleford and Railway Station .....	J. Warnock .....	2	6	12 do .....	200 00
Castlemore and Kleinburg Station .....	R. Douglas .....	14 r. t.	6	3 do (to June 30, '88).	66 00
do do .....	J. Hugill, jr. .....	14 r. t.	6	9 do from .....	187 50
Cataract and Railway Station .....	J. Howard .....	$\frac{1}{2}$	12	12 do .....	65 00
Cayuga and Deans Station .....	E. Wigg .....	$\frac{1}{2}$	6	12 do .....	87 36
Cayuga and Gypsum Mines .....	M. Thompson .....	$\frac{1}{2}$	3	6 12 do .....	115 00
Cayuga, Deans and Railway Station .....	J. Shipway .....	2 & $\frac{1}{2}$	6 & 12	12 do .....	230 00
Cayuga and Kohler .....	J. Booker .....	$\frac{1}{2}$	3	12 do .....	80 00
Cayuga and Upper .....	J. Everets .....	12	3	12 do .....	145 00
Cecebe and Steamer .....	W. A. Cowan .....	$\frac{1}{2}$	3	Season 1888 .....	21 50
Cedar Dale and Railway Station .....	W. Coleman .....	$\frac{1}{2}$	25	12 months .....	125 00
Cedar Hill and Pakenham .....	S. Connery .....	$\frac{1}{2}$	2	12 do .....	80 00
Centralia, Crediton and Railway Station .....	J. Clark .....	6	12	12 do .....	200 00
Centralia and Mooresville .....	R. Handford .....	$\frac{1}{2}$	6	12 do .....	200 00
Centreton and Grafton .....	W. Roberts .....	13	3	12 do .....	163 00
Centreville and Tamworth .....	S. Fleming .....	8	6	1 do (from Mar. 1, '89)	13 82
Chaffey Locks and Elgin .....	M. Doyle .....	6	2	12 do .....	70 00
Chalk River and Railway Station .....	T. Field .....	2	12	12 do .....	100 00
Chandos and Clydesdale .....	H. Caldwell .....	5	1	12 do .....	30 00
Chantry and Phillipsville .....	A. Elliot .....	$\frac{1}{2}$	6	12 do .....	150 00
Chapleau and Railway Station .....	T. A. Austin .....	$\frac{1}{2}$	12	12 do .....	75 00
Chapman and Stoco .....	A. Chapman .....	3	3	12 do .....	78 00
Chard and Pendleton .....	W. J. Brown .....	4	2	12 do .....	56 00
Charing Cross and Comber, &c. .....	G. Robb .....	27	3 & 6	12 do (less fine) .....	474 00
Charing Cross and Doyles .....	M. Doyle .....	$\frac{1}{2}$	2	12 do .....	55 00
Charing Cross and Railway Station .....	J. Hunter .....	$\frac{1}{2}$	12	12 do .....	72 00
Charleston and Farmersville .....	J. Kavanagh .....	$\frac{1}{2}$	2	12 do .....	70 00
Charlinch and Novar .....	L. Robinson .....	$\frac{1}{2}$	2	12 do .....	100 00
Chatham and Dover South .....	G. W. Bourdeau .....	6	6	12 do .....	199 00
Chatham and Irwin .....	T. Prime .....	5	2	12 do .....	50 00
Chatham and Louisville .....	A. McDonald .....	6	3	12 do .....	120 00
Chatham and Railway Station .....	J. R. Reid .....	$\frac{1}{2}$	36	12 do .....	327 60
Chatham and Street Letter Boxes .....	P. O. Flynn .....	$\frac{1}{2}$	18	9 do (from July 1, '88)	311 43
Chatham and Van Horn .....	J. Zink .....	6	2	12 do .....	70 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Chatham and Williams.....	R. Williams.....	9	2	12 months.....	80 00
Chatsworth and Chesley.....	J. Edgar, jr.....	23 $\frac{1}{2}$	3	9 do (from July 1, '88)	292 50
Chatsworth and Durham.....	N. McIntyre.....	20 $\frac{1}{2}$	6	12 do.....	435 00
Chatsworth and Moorsburg.....	J. J. Stinson.....	17	3	3 do (to June 30, '88)	54 75
Chatsworth and Railway Station.....	D. Rae.....	$\frac{1}{2}$	24	12 do.....	124 80
Chatsworth and Strathavon.....	A. F. D. Lee.....	8	3	12 do.....	136 00
Chatterton and Foxboro.....	S. P. Morden.....	3 $\frac{1}{2}$	2	12 do.....	50 00
Cheapside, Jarvis and Ry. Station.	L. Brown.....	16	6 & 12	7 do (to Oct. 31, '88)	173 83
do do.....	W. Atkinson.....	16	6 & 12	5 do from do	187 08
Cheddar and Gooderham.....	J. Ridley.....	19	1	6 do (to Sept. 30, '88)	97 50
do do.....	W. M. Patterson.....	19	1	6 do from do	75 00
Cheddar and Wilberforce.....	A. Riley.....	8	1	3 do (to June 30, '88)	10 00
Chelmsford and Railway Station.....	E. Belanger.....	$\frac{1}{2}$	3	12 do.....	25 00
Cheney and Kearney.....	L. Perron.....	$\frac{1}{2}$	1	12 do.....	25 00
Chepstowe and Dunkeld Station.....	C. Mullin.....	2 $\frac{1}{2}$	6	12 do.....	130 00
Cherry Valley and Point Petre.....	A. Gibson.....	6	1	12 do.....	37 00
Cherry Valley and Salmon Point.....	J. M. Bently.....	6	2	12 do.....	44 48
Cherrywood and Whitevale.....	M. R. Summerfeldt.....	3 $\frac{1}{2}$	3	12 do.....	95 00
Chesley and Coverley.....	P. Kildil.....	6 $\frac{1}{2}$	3	6 do 13 days (to Oct. 13, '88).....	51 92
Chesley and Railway Station.....	T. R. Reid.....	$\frac{1}{2}$	12	12 do.....	80 00
Chesley and Scone.....	W. Graham.....	1 $\frac{1}{2}$	3	8 do 15 days (broken period).....	28 00
Chesterville and Connaught.....	P. Jordan.....	5	2	12 do.....	80 00
Chesterville and Moorewood.....	F. Elliott.....	8	6	9 do (to Dec. 31, '88)	106 50
do do.....	H. Dillabough.....	8	6	3 do from do	35 50
Chesterville and Morrisburg.....	R. Casselman.....	18 $\frac{1}{2}$	6	6 do (to Sept. 30, '88)	212 50
do do.....	M. Brown & C. L. Casselman.....	18 $\frac{1}{2}$	6	2 do 9 days (to Dec. 9, '88).....	80 84
do do.....	J. Marselis.....	18 $\frac{1}{2}$	6	3 do 22 days (from do)	131 66
Chesterville and Railway Station.....	T. Johnston.....	$\frac{1}{2}$	12	10 do 18 days (from May 14, '88).....	66 14
Chevalier and Stoney Point.....	O. Marion.....	1	12	12 do.....	100 00
Cheviot and Riversdale.....	A. McLean, jr.....	3	2	12 do.....	65 00
Chippewa and Niagara Falls.....	W. J. Sheppard.....	6	12	12 do.....	500 00
Chiselhurst and Hensall.....	T. Murdock.....	4	2	12 do.....	70 00
Christie's Corners and Heckston.....	J. Van Allan.....	2 $\frac{1}{2}$	2	5 do (to Aug. 31, '88)	10 42
Christina and Mount Brydges.....	T. Pearce.....	4	2	12 do.....	45 00
Churchill and Lefroy Station.....	J. Sloan.....	2 $\frac{1}{2}$	12	12 do.....	220 00
Churchville and Railway Station.....	T. A. Fogarty.....	$\frac{1}{2}$	6	12 do.....	80 00
Clareview and Erinsville.....	R. T. McDonnell.....	4	2	12 do.....	63 75
Clanbrassil and Railway Station.....	J. Cossar.....	2	6	12 do.....	60 00
Clandeboyne and West McGillivray.....	W. McKann.....	7 $\frac{1}{2}$	6	12 do.....	189 00
Claremont and Ry. Station.....	T. Gibbons.....	$\frac{3}{4}$	12	9 do (to Dec. 31, '88)	94 00
do do.....	E. Derusha.....	$\frac{1}{4}$	12	3 do from do	26 95
Claremont and Stouffville.....	J. Sellars.....	19 r.	6	12 do.....	313 00
Clarence Creek & Thurso Ry. Station.....	R. A. Roe.....	8	6	12 do.....	240 00
Clarence Creek and the Lake.....	S. Ouellette.....	5	2	12 do.....	50 00
Clarke and Kendal.....	S. J. Morgan.....	6 $\frac{1}{2}$	6	12 do.....	181 52
Clarke and Railway Station.....	do.....	5 $\frac{1}{2}$	12	9 do (to Dec. 31, '88).....	150 40
do do.....	J. Pethick.....	5 $\frac{1}{2}$	12	3 do from do	68 53
Clarksburg and Heathcote.....	S. C. Rowe.....	5	6	12 do.....	188 00
Clarksburg and Redwing.....	J. S. G. Conklin.....	13 $\frac{1}{2}$	2	4 do (to July 31, '88).....	48 33
do do.....	do.....	13 $\frac{1}{2}$	3	8 do from do	144 66
Clarksbur and Thornbury Station.....	S. C. Rowe.....	1 $\frac{1}{2}$	24	12 do less fine.....	123 00
Clarkson and Railway Station.....	W. W. Clarkson.....	$\frac{1}{2}$	12	12 do.....	25 00
Clavering and Railway Station.....	A. Bennett.....	$\frac{1}{2}$	12	12 do.....	60 00
Clayton and Rosetta.....	G. McFarlane.....	6	2	12 do.....	100 00
Clayton and Tatlock.....	P. Guthrie.....	14	3	12 do.....	168 00
Clear Creek and Culus.....	E. Tansley.....	5	2	12 do.....	65 00
Cleavelands and Craigie Lea.....	J. C. Walls.....	6 & 3 $\frac{1}{2}$	2 & 1	9 do (to Dec. 31, '88).....	37 50
Clifford and Huntingfield.....	J. Gordon.....	7	2	12 do.....	75 00
Clifford and Lakelet.....	W. J. Halladay.....	6	6	12 do.....	156 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Clifford and Mount Forest .....	C. Hunt .....	14	2	7 months (to Oct. 31, '88)	75 83
Clifford and Railway Station .....	K. M. Walton .....	4	12	do .....	100 00
Clinton and Railway Station .....	J. Cunningham .....	4	48	12 do .....	374 40
Clinton and Summerhill .....	G. M. Kilty .....	4	2	12 do .....	50 00
Clontarf and Foymount .....	J. R. McDonald .....	8	3	12 do .....	156 00
Clover Hill and Cookstown .....	H. Coleman .....	2½	6	9 do (from July 1, '88)	94 59
Clover Hill, Cookstown and Egbert .....	do .....	2½ & 6½	3	3 do (to June 30, '88)	56 75
Cloyne and Denbigh .....	J. Flake .....	28	2	12 do .....	410 00
Cloyne and Harlowe .....	B. Clark .....	12	2	12 do .....	154 69
Cloyne and Scouten .....	D. A. Spencer .....	13	6	12 do .....	440 00
Cloyne and Snyder Depot .....	E. Babcock .....	3	3	3 do (from Jan. 1, '89)	8 75
Cobble Hill and Evelyn .....	M. Barber, jr. .....	5½	2	12 do .....	49 48
Cobden and Railway Station .....	J. Ross .....	4	12	12 do .....	50 00
Cobden Station and Eganville .....	C. W. Boland .....	18	12	12 do .....	304 00
Cobocoak and Fenelon Falls .....	C. Bowins .....	16	3	12 do .....	234 00
Cobocoak and Lorneville .....	A. Hume .....	28	6	12 do .....	975 00
Cobocoak and Minden .....	T. Leary .....	24	6	12 do .....	575 00
Cobourg and Harewood .....	W. Wellwood .....	16	6	12 do .....	448 00
Cobourg and Roseneath .....	T. McGutcheon .....	20	6	12 do .....	595 00
Cobourg and Street Letter Boxes .....	W. Sykes (to pay) .....		12	9 do (from July 1, '88)	150 00
Coe Hill Mines and Faraday .....	G. Orr .....	8	1	12 do .....	40 00
Coe Hill Mines and Glen Alda .....	I. A. Rosebush .....	7½	1	12 do .....	60 00
Coe Hill Mines and Railway Station .....	R. H. Waddington .....	½	12	12 do .....	50 00
Coe Hill Mines and Rose Island .....	J. McKee .....	6	1	12 do .....	51 50
Coe Hill Mines and The Ridge .....	J. McGregor .....	7	1	12 do .....	40 00
Colborne and Dundonald .....	G. Goodrich .....	7	6	12 do .....	135 00
Colborne and Hastings .....	J. S. Yeomans .....	25	6	3 do (to June 30, '88)	200 00
Colborne and Lakeport .....	E. Redfern .....	2½	12	12 do .....	175 00
Colborne and Warkworth .....	J. S. Yeomans .....	16	6	9 do (from July 1, '88)	300 00
Coldwater and Eady .....	J. F. Moffit .....	3	3	12 do .....	75 00
Coldwater and Lovering .....	S. Eplett .....	6	2	12 do .....	90 00
Coldwater and Railway Station .....	do .....	1	24	12 do .....	200 00
Coleman and Railway Station .....	S. A. Coleman .....	½	6	12 do .....	60 00
Collingwood and Gibraltar .....	J. Glenn .....	10	1	12 do .....	52 00
Collingwood and Railway Station .....	D. Darroch .....	½	36	12 do .....	250 00
Collingwood & Street Letter Boxes .....	J. Ferguson .....		18	9 do (from July 1, '88)	150 00
Collins Bay and Railway Station .....	J. J. Losee .....	½	12	12 do .....	42 00
Collins's Inlet and Killarney .....	D. Lamorandière .....	18	1	12 do .....	153 40
Colpoys Bay and Wiarton .....	L. Hyatt .....	3	6	12 do .....	115 00
Colwell and Railway Station .....	J. Campbell .....	½	12	12 do .....	62 40
Comber and Railway Station .....	H. Whatley .....	½	6	12 do .....	74 88
Comber and Windfall .....	T. Strang .....	9	2	12 do .....	100 00
Combermere and Eganville .....	M. Furlong .....	35	6	12 do .....	300 00
Combermere and Maynooth .....	J. Green .....	25	1	12 do .....	250 00
Comet and Vereker .....	D. Graveline .....	4	2	12 do .....	80 00
Commanda and Loring .....	R. W. Brooks .....	26	1	12 do .....	150 00
Commanda and Restoule .....	A. O. Smith .....	9	1	12 do .....	75 00
Connor and Palgrave Station .....	J. Fleming .....	7	6	12 do .....	219 00
Conroy and St. Paul's Station .....	J. Grady .....	2½	2	12 do .....	60 00
Consecon and Railway Station .....	C. A. Weeks .....	½	12	12 do .....	93 60
Cookstown and Railway Station .....	H. Coleman .....	½	12	12 do .....	75 00
Cook's Mills and Railway Station .....	G. McDonald .....	½	6	2 do (from Feb. 1, '89)	15 00
Cooksville and Railway Station .....	C. R. Colwell .....	1	12	12 do .....	150 00
Cooksville Station and Sheridan .....	J. Jenkins .....	8	6	12 do .....	274 00
Cooksville Station and Summerville .....	P. McLaughlin .....	6	6	12 do .....	225 00
Cooper and Madoc .....	J. Best .....	11	3	12 do .....	195 00
Cooper and The Flats .....	W. Bond .....	5	2	9 do (to Dec. 31, '88)	75 00
do .....	W. Golway .....	5	2	3 do from do .....	17 50
Coopers Falls and Lewisham .....	J. G. Taylor .....	12	2	9 do (to Dec. 31, '88)	90 00
do .....	W. J. Tryon .....	12	2	3 do from do .....	30 00
Copetown and Orkney .....	D. Barnard .....	3	6	12 do .....	180 00
Copleston and Petrolia .....	N. Henriod .....	5	6	12 do .....	170 00
Corbetton and Railway Station .....	J. Corbett .....	30 rds	6	12 do .....	35 00
Corinth and Railway Station .....	W. Moore .....	25 rds	12	9 do (to Dec. 31, '88)	52 50



DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Corinth and Railway Station.....	R. Evans.....	25 rds	12	3 months (from Jan. 1, '89)	19 50
Cornwall and Railway Station.....	A. Lalonde.....	1	1	12 do	13 00
Cornwall and St. Andrews, West.....	J. Rivière.....	7	3	12 do	195 00
Cornwall and Street Letter Boxes.....	D. McCracken.....		12	9 do (from July 1, '88).	175 50
do do	D. McGillis.....		12	9 do from do	175 50
Cornwall and Tayside.....	D. D. McKera-cher.....	24	3	12 do	349 00
Cornwall Centre and Milleroches.....	D. McKay.....	2½	3	12 do	68 00
Corson's Siding and Head Lake.....	W. Maxwell.....	12	3	12 do	175 00
Corunna and Railway Station.....	H. J. Miller.....	½	12	12 do	76 00
Corwhin and Nassagaweya.....	P. Little.....	2	6	6 do (to Sept. 30, '88).	48 00
do do	P. McLaren.....	2	6	6 do from do	48 00
Cotswood and Elora.....	T. Bilton.....	23	6	3 do (to June 30, '88).	117 50
do do	J. McEachren.....	23	6	9 do from do	315 00
Cottesloe and Norwood.....	C. Griffin.....	8½	2	12 do	75 00
Coulson and Orillia.....	J. O'Connor.....	16	6	12 do (less fine).....	396 72
Courtland and Port Rowan.....	W. Smith.....	19	6	12 do	575 00
Courtland and Railway Station.....	do.....	¼	12	12 do	80 00
Courtwright and St. Clair Branch Station.....	W. A. Cathcart.....	½	12	12 do	63 50
Courtwright and Erie and Huron Railway Station.....	do.....	¼	12	12 do	76 00
Coverley and Kinghurst.....	J. A. King.....	4½	2	6 do (to Sept. 30, '88).	22 50
Cowal and Iona Station.....	G. McCallum.....	6½	2	12 do	79 00
Craigie Lea and Gregory.....	J. C. Walls.....	5	1	Part of season 1888-89.....	12 50
Craigleith and Railway Station.....	A. Fleming.....	½	6	12 months.....	48 00
Cranbrook and Moncrieff.....	P. McDonald.....	4	1	12 do	27 00
Cranston and Railway Station.....	J. King.....	4½	6	12 do	140 00
Cranworth and Portland.....	R. Hart.....	5½	1	12 do	25 00
Crawford and Elmwood.....	D. McRae.....	9	3	12 do	150 00
Credit Forks and Railway Station.....	G. G. Smith.....	¼	12	12 do	62 40
Creemore and Lavender.....	R. M. Lackie.....	7	3	12 do	135 00
Creemore and Railway Station.....	A. Gillespie.....	¼	12	12 do	96 00
Cressey and Picton.....	C. Storms.....	19	3	12 do	300 00
Creswell and Junction.....	T. Pearn.....	¾	6	Special trips.....	1 25
Creswell and Railway Station.....	do.....	¾	12	6 months from Oct. 1, '88	15 00
Crewe and Dunganon.....	M. Shakleton.....	5	1	12 do	26 00
Crinan and West Lorne.....	A. McIntyre.....	4½	2	12 do	75 00
Crofton and Rossmore.....	T. Jinks.....	9	6	3 do (to June 30, '88).	49 75
do do	J. Martin.....	9	6	9 do from do (less fine)	202 25
Crossland and Phelpsston.....	J. Mahoney.....	5	2	12 do	75 00
Croton and Dawn Mills.....	L. Philips.....	8	3	12 do	87 00
Cruickshank and Owen Sound.....	W. T. Barfoot.....	6	3	12 do	100 00
Crysler and Wales.....	S. E. Onderkirk.....	23	6	12 do	499 00
Cumberland and Railway Station.....	J. Winsor.....	2½	12	12 do	137 50
Currie's Crossing and Railway Station.....	W. D. Smith.....	½	6	12 do	60 00
Curry Hill and River Beaudette.....	M. C. Curry.....	5	3	8 do (from Aug. 1, '88)	66 67
Cushing and Little Rideau.....	J. Little.....	4½	6	12 do	170 00
Cyprus and Novar Station.....	G. Poucher.....	2	3	12 do	62 00
Dacre and Esmonde.....	P. Curry.....	6	2	12 do	60 00
Dacre and Graton.....	A. J. Morrow.....	6	2	2 do (to May 31, '88)..	11 67
Dacre and Griffith.....	T. Holmes.....	20	2	12 do	200 00
Dacre and Renfrew.....	C. Jamieson.....	22	3	12 do	375 00
Dale and Ross Mount.....	J. Lill.....	4	2	12 do	50 00
Dalkeith and Glen Robertson.....	W. T. Robinson.....	8	6	12 do	196 00
Dalston and Orillia.....	J. Harvie.....	40 r. t.	6	12 do	548 00
D'Arcy and Howe Island.....	C. Sughrue.....	6	2	12 do	60 00
Darrell and Railway Station.....	S. Duncan.....	20 rods	6	12 do	10 00
Dartmoor and Sebright.....	A. Dunn.....	4	3	9 do (from July 1, '88)	52 50
Dashwood and Parkhill.....	J. S. Witzel.....	16½	6	12 do	439 00
Davenport and Fairbank.....	D. McComb.....	2½	6	12 do	64 00
Davenport and Railway Station.....	J. Green.....	50 yds	12	9 do (to Dec. 31, '88).	7 50
do do	W. Rountree.....	50 yds	12	3 do from do	5 00

## DETAIL of all payments for Mail Transportation in Ontario, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Davenport—C. P. Railway and N & N. W. Railway.	G. T. Railway Co	50 yds	12	12 months	80 00
Davenport—Midland Railway and Northern Railway.	S. McElroy.			Special transfer	5 00
Davis' Mills and Pembroke.	W. J. Leech.	8	1	9 months (to Dec. 31, '88)	33 75
do do	R. Davis.	8	1	3 do from do	11 25
Dawn Mills and Dresden.	L. Philips.	4	6	12 do	148 00
Day Mills and Thessalon.	W. Harris, jr.	15	2 s, 1 w	12 do	116 00
Decewsville and Railway Station.	C. Hagney.	300 yd	12	9 do (to Dec. 31, '88).	37 50
do do	J. Heaton.	300 yd	12	3 do from do	15 00
Deemerton and Mildway.	B. Ruland.	2½	6	9 do (to Dec. 31, '88).	75 00
do do	A. Knenemann.	2½	6	3 do from do	22 50
Deerhurst and Gilford.	M. Kneeshaw.	4½	3	3 do (to June 30, '88).	25 00
do do	R. Baynes.	4½	3	9 do from do	75 00
Deer Lake and Leafield.	J. F. McMillan.	5	1	3 do (to June 30, '88).	6 00
Delaware and London.	J. Charles.	12	6	12 do	250 00
Delhi and Lynedoch, &c.	J. Powell.	6	6 & 12	12 do	149 00
Deloro and Railway Station.	M. O'Connor.	1½	5	12 do	96 00
Delmer and Tilsonburg.	J. H. Young.	4½	3	12 do	115 00
Demorestville and Fish Lake.	W. Robinson.	4	2	12 do	46 00
Denbigh and Griffith.	W. H. Blakely.	12	1	12 do	62 00
Denbigh and Plevna.	G. P. Stein.	23	2	12 do	250 00
Denfield and Duncriff.	J. Hodgins.	6½	3	12 do	125 00
Denfield and Railway Station.	J. Edwards.	6 rods	12	12 do	38 00
Dereham Centre and Mount Elgin.	W. Short.	3	2	12 do	58 00
Derrynane and Kenilworth.	J. Hayes.	5½	2	12 do	60 00
Desert Lake and Sydenham.	W. Snook.	11	1	12 do	69 00
Deux Rivières and Railway Station.	T. Legge.	¼	12	12 do	100 00
Dewe and Parry Sound.	J. Wright.	11	1	Season 1888.	26 75
Dexter and Sparta.	C. M. Pettit.	4½	4	12 months.	85 00
Diamond and Kinburn.	D. McMillan.	4	3	12 do	80 00
Dickinson and Railway Crossing.	L. E. Wood.	3	3	12 do	70 00
Dirleton and Fitzroy Harbor.	J. Drummond.	7½	2	12 do	60 00
Dixon's Corners and Dundela.	J. E. Tuttle.	4	3	12 do	75 00
Dixon's Corners & Pleasant Valley.	W. Baxter.	10½	3	6 do (to Sept. 30, '88).	67 00
do do	D. Gilmer.	10½	3	6 do from do	67 00
Dobbinton and Railway Station.	J. Douglas.	1½	9	12 do	95 00
Dobbinton Railway Station and Wiliscroft.	B. Talbot.	4½	3	12 do	110 00
Doe Lake and Spence.	M. Gilmour.	14	2	12 do	100 00
Doe Lake and Utterson.	N. Hanes.	32	3	12 do	800 00
Dolsen and Railway Station.	B. Daly.	3	1	12 do	25 00
Dominionville and Morrisonville.	R. Morrison.	2½	2	12 do	45 00
Don and Toronto.	A. Hogg.	8	6	12 do	360 00
Donegal and Railway Station.	A. Buchanan.	4½	6	12 do	120 00
Doon and Railway Station.	J. H. Thompson.	1½	6	12 do	20 00
Dorking and Newton.	B. Donegan.	13	6	12 do	300 00
Douglas and Grattan.	M. B. McFarlane.	7	2	10 do (from June 1, '88)	58 33
Dovercourt and Yorkville.	T. Handcock.	4½	6	12 do	125 00
Downeyville and Omemee.	B. Downey.	5½	6	12 do	160 00
Downsview and Railway Station.	J. E. Clarke.	8½	6	12 do	75 00
Drayton and Glen Allen.	H. Gordon.	10	6	6 do (to Sept. 30, '88).	162 00
do do	W. Stubbs.	10	6	6 do from do	145 00
Drayton and Railway Station.	R. Hall.	¾	24	12 do	149 00
Dresden and Railway Station.	D. Turnbull.	1½	24	12 do	136 00
Drew and Railway Station.	W. Cardwell.	2	6	5 do (from Nov. 1, '88)	29 16
Dromore and Greenside.	R. Legatt.	2½	2	12 do	40 00
Dromore and Holstein.	J. Henderson.	9	6	12 do	215 00
Drum and Pontypool.	H. Byres.	2½	2	6 do (to Sept. 30, '88).	35 00
Drumbo and Railway Station.	W. H. Burgess.	¾	12	12 do	160 00
Drumquinn and Milton.	J. McIntosh.	18 r. t.	6	12 do	300 00
Drysdale and Kippen.	J. Brisson.	10	3	12 do	146 00
Duart and Palmyra, &c.	J. C. Gordon.	8½	6 & 12	9 do (to Dec. 31, '88).	225 00
do do	W. M. Curtis.	8½	6 & 12	3 do from do	86 25
Dublin and Farquhar.	J. Kay.	11	6	12 do	238 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Dublin and Railway Station. ....	J. Williams. ....	1	24	3 months (to June 30, '88)	37 44
do do	J. Myers. ....	1	24	9 do from do	79 56
Dufferin and Kingston Mills. ....	S. Donaldson. ....	3 3/4	3	12 do	40 00
Dufferin Bridge and Emsdale. ....	W. Brooks. ....	26 3/4	3	12 do	589 00
Dufferin Bridge and Waubamick. ....	T. W. Quinn. ....	26	1	12 do	193 00
Dumblane and Paisley. ....	R. Cruikshank. ....	5 1/2	3	12 do	130 00
Dunbar and Grantley. ....	J. C. Munro. ....	5	3	12 do	70 00
Dunbarton and Frenchman's Bay Station. ....	W. Pizer. ....	3 3/4	13	12 do	125 00
Dunbarton and Liverpool Market. ....	do	1	6	12 do	76 00
Duncan and Heathcote. ....	A. McKeown. ....	5	1	12 do	44 00
Dunchurch and Glenila. ....	W. McAmmond. ....	7 1/4	2	12 do	90 00
Dundalk and Hopeville. ....	R. Scott. ....	9	3	12 do	123 24
Dundalk and Kingscote. ....	J. Phelan. ....	12	2	12 do	129 76
Dundalk and McIntyre. ....	A. Stewart. ....	13 1/2	3	4 do (to Dec. 31, '88).	66 67
do do	N. D. McKinnon. ....	13 1/2	3	3 do from do	50 00
Dundalk and Maple Valley. ....	R. Cooper. ....	12 1/2	3	9 do (to Dec. 31, '88).	127 50
do do	J. McKenzie. ....	12 1/2	3	3 do from do	42 50
Dundalk and Railway Station. ....	G. W. Parsons. ....	8	24	12 do	90 00
Dundas and Hamilton. ....	J. Herriman. ....	5	6	12 do	125 00
Dundas and Sheffield. ....	P. Humphrey. ....	14	6	12 do	449 00
Dunkeld and Railway Station. ....	J. B. Ischirhart. ....	5 1/2	6	12 do	90 00
Dunmore and Spence's Corners. ....	L. McIntomony. ....	3	3	12 do	60 00
Dunnville and Railway Station. ....	M. Culleton. ....	4	18	12 do	100 00
Dunnville and Selkirk. ....	S. Hurst. ....	18	6	12 do	490 00
Dunnville and Wellandport. ....	L. Durham. ....	12	6	12 do	312 00
Dunrobin and South March. ....	P. Orchard. ....	18 r. t.	3	12 do	150 00
Dunrobin and Woodlawn. ....	W. H. Wilson. ....	4	3	12 do	70 00
Duntroon and Maxwell. ....	D. K. Preston. ....	14	6	12 do	390 00
Duntroon and Railway Station. ....	J. Russell. ....	4	12	12 do	156 48
Durham and Flesherton Station. ....	T. A. Harris. ....	14	6	12 do	316 17
Durham and Railway Station. ....	B. F. Warner. ....	1	12	12 do	60 00
Durham and Walkerton. ....	G. Crittenden. ....	16 1/2	6	12 do	297 00
Dwight and Huntsville. ....	G. F. Marsh. ....	13 1/2	2	12 do	195 00
Dyers Bay and Lion's Head. ....	W. Channon. ....	16	2	12 do	273 00
Eagle and West Lorne. ....	J. Martin. ....	4 1/2	12	12 do	198 89
Ealing and The Gore. ....	P. Ackland. ....	3	3	12 do	55 00
Eastman's Springs and Hawthorne. ....	S. Minions. ....	7 1/2	3	12 do	160 00
Eastman's Springs and Railway Station. ....	R. J. Keyle. ....	1 1/2	12	12 do	40 56
Eauclaire and Railway Station. ....	W. Mackey. ....	1 1/4	6	12 do	40 00
Eberts and Railway Station. ....	A. Robertson. ....	10 yds	12	12 do	21 00
Eden Mills and Guelph. ....	R. Middleton. ....	16	6	12 do	288 00
Eden Valley and Main Post Road. ....	W. Trumble. ....	1	3	9 do (to Dec. 31, '88)..	22 50
do do	R. Nugent. ....	1	3	3 do from do	12 50
Edgar's Mills and Railway Station. ....	E. Roadhouse. ....	2 1/2	6	12 do	40 00
Edgeley and Thornhill Station. ....	A. Winger. ....	2	6	12 do	124 80
Edginton and Trout Lake. ....	J. H. Holton. ....	8	1	12 do	85 00
Edmonton and Railway Station. ....	W. Goulding. ....	1/2	6	12 do	30 00
Edwardsville and Molesworth. ....	S. Lougheed. ....	4	2	2 do 16 days (to June 16, '88).	15 87
Egan Creek and L'Amable. ....	J. A. Smith. ....	6	2	12 do	52 00
Eganville and Golden Lake. ....	S. Sunstrum, sr. ....	12	2	12 do	144 00
Eganville and Pembroke. ....	M. J. McCann. ....	26	3	12 do	334 00
Egbert and Changing Post. ....	E. A. Gibson. ....	3	6	9 do (from July 1, '88)	56 25
Egerton and Mount Forest. ....	J. Hunter. ....	16 1/2	3	12 do	300 00
Eglington, Toronto and Yorkville. ....	J. Hendry. ....	4 1/2 & 1 1/2	6 & 12	12 do	360 00
Egmondville and Seaforth. ....	D. Hay. ....	1	6	6 do (from Oct. 1, '88).	40 00
Egremont and Mount Forest. ....	W. Hunt. ....	3	4	7 do (to Oct. 31, '88)..	40 83
Elcho and Smithville. ....	H. Hunsburger. ....	8	2	12 do	104 00
Elder and Rosemont. ....	C. Conn. ....	7 1/4	2	12 do	88 00
Elder's Mills and Railway Station. ....	M. Wright. ....	4	6	9 do (to Dec. 31, '88).	37 50
do do	A. McKinnon. ....	4	6	3 do from do	12 50
Eldorado and Empey. ....	L. Empey. ....	3	6	do (from Oct. 1, '88).	15 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Elford and Essex Centre	I. Elford	4½	1	12 months	50 00
Elia and Railway Station	S. T. Brooks	½	6	12 do	75 00
Elizabethville and Port Hope	T. Roberts	32 r. t.	6	12 do	490 00
Elliot and Manion	J. DeWitt	7	2	12 do	50 00
Ellisville and Seely's Bay	J. MacMillan	5	2	12 do	55 00
Elmbank and Malton	I. Sanders	25 r. t.	6	12 do	367 00
Elmwood and Malcolm	A. A. Kerr	2½	3	12 do	59 00
Elmwood and Railway Station	F. Haller	¾	12	12 do	50 00
Elora and Inverhaugh	R. Ariss	4½	2	12 do	60 00
Elora and Pentland	P. C. Fleming	5	2	12 do	60 00
Elora and C.V. Railway Station	T. Biggar	½	12	12 do	75 00
Elora and W. G. & B. Railway Station	M. Salvidge	1	36	12 do	137 48
Elora and Salem	J. R. Wissler	1	6	12 do	40 00
Elphin and McDonald's Corners	J. Brownlee	6	2	6 do (to Sept. 30, '88)	28 50
Elsnore and French Bay	H. Shannon	5	1	12 do	40 00
Emberson and Port Sydney	H. Farnsworth	12	1	12 do	90 00
Embro and Harrington, &c.	W. Vannatter	1	26 & 30	12 do	340 00
Emery and Railway Station	J. Watson	¼	6	12 do	50 00
Emmett and Wilno	J. O'Grady	5	1	12 do	50 00
Emsdale and Fern Glen	C. H. Elliott	6	2	12 do	80 00
Emsdale and Railway Station	J. W. McDonald	¾	5	6 do (to Sept. 30, '88)	19 50
do do	do	¾	12	6 do from do	31 24
Enfield and Oshawa	W. J. Fisher	14	3	12 do	124 80
Ennis and Loretto	J. O'Leary	3½	2	12 do	50 00
Ennismore and Frankhill	C. Lowes	6	1	12 do	60 00
Ennismore and King's Wharf	J. C. Leary	9	2	12 do	100 00
Enterprise and Trafford	M. Whelan	9	1	12 do	45 00
Enterprise and Verona	N. T. & Q. Ry. Co.	10	6	3 do (from Jan. 1, '89)	50 60
Enterprise and Wilkinson	C. Lockwood	8	2	12 do	80 00
Epping and Flesherston	J. C. Curry	15½	6	9 do (to Dec. 31, '88)	300 00
do	G. Mathewson	15½	6	3 do from do	99 75
Epping and Meaford	W. J. Cann	14	6	12 do	301 25
Erbville and Waterloo	J. Simmermacher	5	1	12 do	45 00
Erie and Jarvis	A. Finch	5	2	12 do	72 00
Erin and Guelph	W. Moore	20	6	12 do	450 00
Erin and Railway Station	R. Wood	1	12	12 do	50 00
Erinsville and Napanee	J. Grange	21	6	12 do	475 00
Erskine and Markdale	J. McKeen	6	2	6 do (to Sept. 30, '88)	25 00
do	J. S. Loughheed	6	2	6 do from do	25 00
Eskdale and Tiverton	E. Green	5	3	12 do	90 00
Essex Centre and Gesto	R. Hamilton	6½	6	12 do	139 00
Essex Centre and Leamington	C. Wigle	22	12	12 do	704 17
Essex Centre and Railway Station	T. Rush	¼	18	12 do	117 00
Essexville and Haliburton	A. Gibson	16	1	3 do (to June 30, '88)	21 25
Ethel and Railway Station	W. Spence	¾	6	12 do	80 00
Etrick, Iderton and Ry. Station	J. McRae	6 & ½	3 & 12	12 do	175 00
Evelyn and London	M. Barber, jr.	13	6	12 do	335 80
Everett and Railway Station	W. M. Lockhart	1½	12	12 do	60 00
Exeter and Kirkton	W. Carley	12	6	12 do	375 00
Exeter and Railway Station	C. Snell	1	24	12 do and extra trips	162 30
Exeter and Sarepta	W. Reynolds	7	3	12 do	78 00
Fairfield East and Fairfield Station	A. C. Johns	1½	3	12 do	29 65
Fair Valley and Warminster	R. C. Hipwell	4	3	12 do	72 00
Fairview and Stratford	W. Bell	9	3	12 do	156 00
Falkenburg and Mail Catching Post	M. Moore	¼	6	12 do	31 20
Falkenburg and Ullswater	do	12½	3	Season 1888	168 00
Falkland and Paris	W. T. Walker	3	3	12 months	50 00
Farewell and Kenilworth	W. L. Morrison	6	6	12 do	156 00
Farewell and Wagram	do	3	2	12 do	34 00
Fargo and Lundy	A. W. Palmer	3	2	12 do	64 00
Fargo and Railway Station	W. H. Hunter	300 yd	24	12 do	50 00
Farmersville and Mallorytown	S. L. Hogeboom	12	6	9 do (to Dec. 31, '88)	221 25
do do	do	13½	6	3 do from do	120 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Farmersville and Plum Hollow....	V. W. O. Sherman.	6	2	12 months	58 00
Farquhar and Lumley.....	J. Potton.....	4½	2	12 do	62 50
Farran's Point and Osnabrock Centre.....	C. Stata.....	6	6	12 do	97 00
Farran's Point and Railway Station	do	¾	12	12 do	73 00
Fawkham and Mail Catching Post.	W. Carrick.....	2	6	12 do	125 00
Fawn and Mail Catching Post.	J. M. Smith.....	¾	3	6 do (to Sept. 30, '88).	20 00
do do	A. Gaudaur.....	¾	3	6 do from do	17 00
Felton and Russell.....	C. York.....	4	2	12 do	50 00
Fenaghvale and St. Amour	M. Poirier.....	2½	2	12 do	25 62
Fenelon Falls and Railway Station.	J. Quinn.....	¾	12	12 do	80 00
Fergus and Living Springs.	F. J. Armstrong.	6	2	12 do	75 00
Fergus and Railway Stations.	J. C. Morrow.....	¾	12	12 do	250 00
Fergus and Shiloh.....	T. Hamilton.....	13	2	12 do	150 00
Ferguson's Falls and Perth	T. Haley.....	18	6	12 do	390 00
Fernhill and Poplar Hill	D. R. Owen.....	4½	3	12 do	100 00
Fesserton and Railway Station	R. Jancowski.....	¾	12	12 do	65 00
Feversham and Flesherton.	G. Park.....	14	6	12 do	375 00
Feversham and Lady Bank.	W. T. Paul.....	5	1	9 do (to Dec. 31, '88).	37 50
do do	J. Poole.....	5	1	3 do from do	10 00
Fingal and Port Talbot.....	J. Brown.....	7	3	12 do	125 00
Fingal and St. Thomas	G. Penwarden.....	7	6	12 do	149 00
Fingal, Shedden and Ry. Station.	J. Church.....	3½	6 & 12	12 do	190 00
Fingerboard and Sonya.	T. Moase.....	2½	3	12 do	80 00
Fish Creek and Granton.....	W. Blatchford.....	5	2	12 do	60 00
Fisherville, Nelles' Corners and Railway Station	J. Mehlenbacher	4½	6 & 12	9 do (to Dec. 31, '88).	119 25
do do	J. Orth.....	4½	6 & 12	3 do from do	34 25
Fleetwood and Franklin.....	W. Stacy.....	2	4	12 do	70 00
Flesherton and Railway Station.....	P. Munshaw.....	1½	24	12 do	156 00
Flesherton and Vandeleur.....	J. Warling.....	6½	3	12 do	90 00
Flesherton Ry. Station and Priceville	J. Watson.....	4	6	6 do 19 dys (from Sept. 12, '88).....	55 11
Fletcher and Railway Station.....	A. G. Robertson.	¾	12	12 do	45 00
Flinton and Madoc.....	R. Simmons.....	19	6	9 do (to Dec. 31, '88).	555 75
do do	R. E. Jones.....	19	6	3 do from do	131 25
Florence and Oakdale.....	A. Lourie.....	6	2	12 do	55 00
Florence and Rutherford	J. Conbrough.....	6	3	12 do	100 00
Flower Station and Railway Station	G. W. White.....	¾	12	9 do (to Dec. 31, '88).	7 50
do do	S. M. Lyon.....	¾	12	3 do from do	3 75
Fonthill and North Pelham.....	J. A. McQueen.....	10	3	12 do	220 00
Fordwich and Newbridge.....	W. Chapman.....	4½ & 8	2 & 6	12 do	159 72
Fordwich and Railway Station.	R. Mahood.....	¾	12	12 do	112 00
Forest and Ravenswood.....	P. McCallum.....	9	3	12 do	100 00
Forest and Railway Station.	P. Smith.....	400 yd	6	12 do	43 68
Foresters' Falls and Ry. Crossing.	P. R. Pounder & Co.....	17	6	13 do (to Apr. 30, '89).	563 33
Fort Erie and Garrison Road	J. Hershey.....	4	2	3 do (to June 30, '88).	20 00
Fort Erie and Railway Stations.	G. Lewis.....	1½	48	12 do	360 00
Fort William and Railway Station.	C. McVicar.....	¾	12	12 do	250 00
Fort William West and Ry. Station.	A. McLaren.....	¾	12	12 do	120 00
Fournier and Routhier.....	J. O. Poirier.....	6	6	12 do	189 00
Fowler's Corners and Peterboro..	A. Tully.....	7½	2	3 do (to June 30, '88).	26 00
do do	A. R. Reid.....	7½	2	9 do from do	67 50
Foxmead and Railway Station.....	J. Hadden.....	1½	6	12 do	30 00
Franconia and Perry Station	A. Clark.....	7	6	12 do	137 00
Frankford and Railway Station	J. Chapman.....	200 yd	12	12 do	78 00
Frankford and Stockdale.....	H. S. Bowerman	2	3	12 do	36 00
Franklin and Railway Station.....	J. Hadden.....	100 ft.	12	12 do	70 00
Frank's Bay, North Bay and Sturgeon Falls	J. M. Smith.....	15 w	2	12 do	70 00
Franktown and Railway Station.	W. Lightbody.....	20 s	12	12 do	150 00
Frankville and Railway Station.	W. Dowsley.....	11	6	12 do	239 00
Freeborn and Pepper's Crossing.....	J. Freeborn.....	60 rods	6	12 do	30 00

DETAILS of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Freeland and Webster's Corners....	J. W. Preston..	1	3	12 months.....	20 00
Freelton and Mountsberg.....	B. Johrson.....	3½	3	12 do.....	90 00
Freeman and Railway Station.....	E. B. Freeman..	1½	30	12 do.....	93 60
Frome and Railway Station.....	J. Arnold.....	1½	6	12 do.....	78 00
Fullarton and Gowrie.....	W. H. Woodley..	3	3	12 do.....	57 00
Fuller and Thomasburg.....	M. Mitts.....	4½	2	12 do.....	48 00
Fyfield and Teeswater.....	A. Gibson.....	5	2	12 do.....	60 00
Galbraith and Middleville.....	R. J. Penman..	6½	2	12 do.....	52 00
Galt and Glen Morris.....	D. Munro.....	7	6	9 do (to Dec. 31, '88).	217 50
do do.....	W. Colom.....	7	6	3 do from do.....	55 75
Galt and Puslinch.....	J. McLean.....	15	3	12 do.....	215 00
Galt and Railway Stations.....	G. Hancock.....	8	24	12 do.....	225 00
Gamebridge and Railway Station..	S. McDougall..	1½	12	12 do.....	115 00
Gananoque and Seely's Bay.....	W. Kenny.....	14	2	12 do.....	145 00
Gananoque and Street Letter Boxes	E. Keating.....	1	12	12 do.....	156 00
Gananoque and Wilstead.....	N. Gardner.....	4	3	12 do.....	94 00
Gananoque Station and Marble Rock	B. S. Bradley..	4½	2	12 do.....	60 00
Gananoque Station and Willets- holme.....	I. B. Greenizan.	4	2	12 do.....	60 00
Garden River and Railway Station.	W. R. Cunning- ham.....	1	3	Season 1888-89.....	29 00
Garnet and Railway Station.....	T. Sullivan.....	½	12	12 months.....	40 00
Garrison Road and Ridgeway.....	P. W. Anthony..	18 r.t.	2	9 do (from July 1, '88)	108 75
Garry Owen, Johnson and Owen Sound.....	N. Lemon.....	10 & 13	3	12 do.....	369 00
Gelert and Railway Station.....	W. F. Ritchie..	½	12	12 do.....	50 00
Gelert Station and Minden.....	D. J. Hartle.....	7½	12	1 do (from Mar. 1, '89)	24 96
Georgetown and G. T. Ry. Station	McCullum & Watson.....	¾	6	28 days, (to April 28, '88)	4 80
Georgetown and N. & N.W. Ry. Sta- tion.....	McCullum & Watson.....	½	18	12 months.....	125 00
Georgetown and Salmonville.....	J. H. Orr.....	6	6	12 do.....	172 00
Georgina Island and Sutton West..	C. Bigcanoe.....	8	2	12 do.....	50 00
Germania and Uffington Road.....	W. Stamp.....	2½	3	12 do.....	75 00
Gilbert's Mines and Picton.....	A. I. Ryckman..	10½	3	12 do.....	120 00
Gilford and Railway Station.....	J. A. Blain.....	¾	24	12 do.....	60 00
Gilmour and Railway Station.....	J. Caverly.....	20 ft.	12	12 do.....	12 50
Gladstone and Harriettsville.....	L. McMurray..	3	6	12 do.....	88 00
Glamis and Pinkerton Station.....	J. McKeenan..	9	6	12 do.....	268 00
Glamorgan and Millbrook.....	K. Kennedy.....	6	2	12 do.....	78 00
Glandine and Railway Station.....	E. Pogue.....	2	3	12 do.....	70 00
Glanford Station and Ry. Station..	T. J. Wilkinson.	½	6	3 do (to June 30, '88).	11 70
do do.....	H. Clark.....	½	6	9 do from do.....	37 44
Glanford Station and Sinclairville..	J. R. Wilson.....	10	3	3 do (to June 30, '88).	38 75
do do.....	do.....	13	3	9 do from do.....	139 50
Glanmire and Millbridge.....	J. Lummiss, sr..	8	1	12 do.....	52 00
Glanworth and Railway Station.....	J. Turnbull.....	½	6	12 do.....	62 40
Glastonbury and Kaladar.....	A. A. Dunham..	4½	2	12 do.....	39 00
Glen Annan and Railway Station..	A. Anderson.....	¼	12	12 do.....	40 00
Glenarm and Woodville.....	H. Ferguson.....	22 r.t.	6	6 do (to Sept. 30, '88).	149 50
do do.....	J. H. Pethick..	22 r.t.	6	6 do from do.....	175 00
Glenburnie and The Corners.....	W. Shurtleff..	½	6	12 do.....	60 00
Glencairn and Railway Station.....	W. Grieve.....	¼	12	12 do.....	90 00
Glencoe and Kilmartin.....	D. B. McIntyre.	4½	3	12 do.....	85 00
Glencoe and Strathburne.....	J. Smith.....	2½	6	12 do.....	120 00
Glencolin and Springfield.....	S. T. Young.....	3	3	12 do.....	80 00
Glendale and White Oak.....	C. Flawn.....	2½	3	12 do.....	50 00
Glen Farrow and Wingham.....	W. McKersie..	6	2	12 do.....	75 00
Glen Eden and Mount Forest.....	C. Hunt.....	5	6	5 do (from Nov. 1, '88)	62 50
Glen Huron and Railway Station..	J. Hamilton.....	1½	6	12 do.....	115 00
Glenila and Loring.....	A. W. Sinclair..	21	1	3 do (to June 30, '88).	37 50
Glen Major and Myrtle.....	W. R. Derby.....	7	6	12 do.....	224 00
Glenmeyer and Kinglake.....	E. Gale.....	10½	2	12 do.....	117 32
Glenmeyer and Tilsonburg.....	E. Gale.....	10	3	12 do.....	147 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Glen Millar and Trenton.....	O. Weston.....	3½	6	12 months.....	100 00
Glenmore and Maitland.....	W. Covill.....	9	3	12 do.....	145 00
Glenoak and Longwood.....	L. J. Hixon.....	8	2	12 do.....	69 00
Glen Orchard and Redwood.....	J. Nixon.....	3	1	Season 1888-89.....	10 50
Glenrae and Railway Station.....	S. Rae.....	50 yds	12	12 months.....	20 00
Glen Robertson and North Lancaster.....	M. Besner.....	25	6	12 do.....	300 00
Glen Robertson and Ry. Station.....	W. T. Robinson.....	¾	24	12 do.....	60 00
Glen Robertson and Ste. Anne de Prescott.....	A. Pilon.....	7	6	12 do.....	115 00
Glen Ross and Railway Station.....	G. T. Iveson.....	20 yds	3	12 do.....	30 00
Glen Roy and Munro's Mills.....	M. Munroe.....	4	3	12 do.....	88 63
Glenshee and Lynedoch.....	O. Jones.....	11¼	6	12 do.....	300 00
Glen Smail and Spencerville.....	E. Ellis, jr.....	3	2	12 do.....	50 00
Glenvale and Sharpton.....	G. D. Hann.....	3	2	12 do.....	60 00
Goderich and Kintail.....	H. Toombs.....	14	6	12 do.....	349 00
Goderich and Lucknow.....	J. Mullin.....	23	6	12 do.....	398 00
Goderich and Railway Station.....	do.....	1	24	12 do.....	149 76
Godfrey and Westport.....	M. Grady.....	20	6	6 do (to Sept. 30, '88).....	246 00
Goldfield and South Finch.....	M. McLean.....	2½	3	12 do.....	55 00
Goldsmith and Leamington.....	G. B. Reid.....	10	3	12 do.....	125 00
Goldstone and Railway Station.....	J. W. Cragg.....	1¾	6	12 do.....	99 84
Gooderham and Kinnmount.....	F. Train.....	21	2	12 do.....	225 00
Gooderham and Ursa.....	S. Kettle.....	6	1	12 do.....	30 00
Goodtown and Richmond.....	T. H. Mills.....	3	2	12 do.....	29 50
Goodwood and Railway Station.....	M. Chapman.....	¾	12	12 do.....	60 00
Gordon and Railway Station.....	J. C. Duff.....	¾	12	12 do.....	50 00
Gore Bay and Little Current.....	H. May.....	50 & 35	2	Part of Seasons 1887-88 and 1888-89.....	400 00
Gore Bay and Long Bay.....	G. W. Hodgkinson.....	10	1	12 months.....	75 00
Gore Bay and Meldrum Bay.....	R. T. Hall.....	58	1	12 do.....	365 00
Goring and Rocklyn.....	J. Sparling.....	4	2	12 do.....	50 00
Gormley and Unionville.....	J. Lunan.....	25 r.t.	6	12 do.....	380 00
Gorrie and Railway Station.....	H. J. Besanson.....	1¼	12	3 do (to June 30, '88).....	40 00
do do.....	do.....	1¼	6 & 12	9 do from do.....	92 59
Gorrie and Seaforth.....	S. Walsh.....	28¾	6	12 do.....	520 00
Goulais Bay and Sault Ste. Marie.....	A. McAuley.....	26	1	12 do.....	234 00
Gowanstown and Kurtzville.....	M. Mennear.....	5	3	12 do.....	97 00
Gowanstown and Railway Station.....	H. Markle.....	¼	6	12 do.....	58 00
Gowanstown and Wallace.....	do.....	3½	6	12 do.....	100 00
Grafton and Railway Station.....	G. Lumley.....	1	7	12 do.....	89 72
Grand Valley and Monticello.....	H. Hills.....	11	2	12 do.....	110 00
Grand Valley and Peepabun.....	W. Osbourne.....	3¼	2	6 do (to Sept. 30, '88).....	25 00
do do.....	J. Loree.....	3½	2	6 do from do.....	18 50
Grand Valley and Railway Station.....	S. McDonald.....	1	12	12 do.....	39 00
Grassett's Station and Michipicoten River.....	W. Spence.....	55	2	12 do.....	288 00
Grassy's Corners & Smithville Road.....	R. H. Walker.....	2	2	12 do.....	35 00
Gravenhurst and Leg Lake.....	J. Paterson.....	11	1	12 do.....	52 00
Gravenhurst and Port Carling.....	C. McCulley.....	28	2	Part of Season 1888-89.....	25 55
do do.....	W. Foreman.....	30	2	Balance of do.....	134 00
Gravenhurst and Railway Station.....	G. F. Marter.....	¾	24	12 months.....	249 60
Gravenhurst and Uffington.....	J. Doherty.....	11	3	12 do.....	194 00
Gravenhurst and Walker's Point.....	W. Walker.....	14	1	Part of Seasons 1887-88 and 1888-89.....	63 00
Gravenhurst, West Gravenhurst and Wharf.....	W. McDivitt.....	2w. 1s.	6	12 months.....	140 00
Greenbank & Blackwater Junction.....	W. Taylor.....	6½	6	3 do (to June 30, '88).....	46 25
do do.....	E. Dusty.....	6½	6	9 do from do.....	123 75
Green Bay and Little Current.....	C. Skippen.....	12	1	12 do.....	70 00
Greenfield and Railway Station.....	A. McDougall.....	1	24	12 do.....	125 00
Green Point and Picton.....	C. Reynolds.....	12	1	14 days (to April 14, '88).....	1 96
do do.....	do.....	12	2	Balance of season '88-'89.....	70 00
Green River and Railway Station.....	F. Burgess.....	1½	12	12 months.....	100 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Greenview and Monteagle Valley.	J. Poff.	6	1	12 months.	50 00
Gregory and Port Carling.	W. Gregory.			Special trip.	1 50
Grenfel and Railway Station.	H. Parr.	24 <sup>2</sup>	2	12 months.	60 00
Gresham and Paisley.	R. Cruickshank.	20 <sup>2</sup>	2	12 do.	160 00
Griffith and Matawachan.	J. McGregor.	10	1	12 do.	52 00
Grimsby and Smithville.	J. H. McCollom.	8	12	12 do.	399 00
Grimsby Park and Railway Station.	N. Phelps.	4	24	Special trips.	38 00
Grimston and Keady.	R. Keys.	4	2	12 months.	50 00
Groveton and Spencerville.	J. McAuley.	3	2	12 do.	48 00
Guelph and Hamilton.	J. Herriman.	31 <sup>1</sup>	6	12 do.	1,000 00
Guelph and Ponsonby.	J. L. Valley.	12	3	12 do.	225 00
Guelph and Street Letter Boxes.	J. D. Johnstone.	5	13	12 do.	250 00
Gunter and Railway Station.	J. H. Gunter.	6	2	12 do.	80 00
Guthrie and Oro Station.	D. Livingstone.	3	2	9 do (from July 1, '88)	36 00
Guthrie and Steel.	J. Steele.	3	2	3 do (to June 30, '88).	12 00
Hagersville and Railway Station.	J. Fleming.	1	36	12 do (less fine).	139 00
Hagersville and Springvale.	J. Holbrook.	4	6	12 do.	120 00
Hagersville, Selkirk and Railway Station.	L. Brown.	14	6	7 do (to Oct. 31, '88).	150 50
Hagersville, Selkirk and Railway Station.	M. Hess.	14	6	5 do from do.	130 42
Haliburton and Kennaway.	J. E. Holmes.	25	1	3 do (to June 30, '88).	58 75
do do.	do.	38	1	9 do from do.	213 75
Haliburton and Railway Station.	J. F. Young.	1	12	12 do.	50 00
Haliburton and Wicksteed.	D. H. Anderson.	10	1	12 do.	40 00
Hallville and Kemptville.	J. Dickinson.	13	3	12 do.	235 00
Hamilton and Lowville.	D. Harris.	19	6	12 do.	403 00
Hamilton and North Barton.	A. W. Swazie.	24 <sup>2</sup>	6	12 do.	50 00
Hamilton and Railway Stations.	C. Armstrong.	14 & 1	6 18-30	12 do.	1,158 00
Hamilton and Stony Creek.	G. Gibbons.	7	6	12 do.	250 00
Hamilton and Street Letter Boxes.	J. Brundle.		As req	12 do.	825 00
Hampton and Solina.	E. B. Cryderman.	24 <sup>1</sup>	3	12 do.	50 00
Hanover and Railway Station.	W. Reid.	3	12	12 do.	89 72
Harkaway and Markdale.	J. Logan.	7	1	12 do.	52 00
Harley and Hatchley Station.	B. Powell.	4	2	12 do.	75 00
Harley and New Durham.	R. Cavin.	5	6	12 do.	132 00
Harlock and Seaforth.	T. Neilans.	17	3	1 do 18 days (to May 18, '88).	48 28
do do.	do.	13	3	10 months, 13 days (from May 18, '88).	243 08
Harrisburg and St. George.	G. Brockbank.			Special trip.	5 00
Harrisburg and Troy.	M. O. Riley.	4	6	12 months.	200 00
Harrisburg and Weir.	E. Williamson.	24 <sup>2</sup>	3	12 do.	45 00
Harriston and Railway Station.	C. H. Ward.	14 & 1	12 & 24	12 do.	224 64
Hartford and Waterford.	W. A. Slaght.	10	6	12 do.	225 00
Hartsmere and Herman.	J. Bremner.	8 <sup>1</sup>	1	7 do (to Oct. 31, '88).	26 83
do do.	do.	8 <sup>1</sup>	2	5 do from do.	37 50
Harwich and Railway Station.	J. O'Brien.	7	6	12 do.	217 00
Havelock and Railway Station.	A. V. Fuller.	34 <sup>1</sup>	18	9 do (to Dec. 31, '88).	117 50
do do.	do.	50 yds	18	3 do from do.	13 86
Havelock and Tilton.	M. J. Peters.	6	3	12 do.	138 00
Hawkestone and Railway Station.	W. Hodges.	1	12	12 do.	43 98
Hawkesville and Macton.	J. McCormick, jr.	7	6	12 do.	156 00
Hawtrey and Northfield Centre, &c.	J. W. Hainer.	12	6 & 12	12 do.	394 00
Hawtrey and Railway Station.	C. J. Treffrey.	17 <sup>1</sup>	12	12 do.	25 00
Hay and Railway Station.	A. Walper.	1	12	12 do.	100 00
Hay Bay and Napanee.	N. Outwater.	19	2	12 do.	189 00
Hayburn and Parna.	E. Loyst.	2	3	12 do.	50 00
Hayesland and Mill Grove.	E. Young.	34 <sup>1</sup>	6	12 do.	116 00
Haysville and New Hamburg.	R. C. Tye.	34 <sup>1</sup>	6	12 do.	144 00
Hazledean and Stittsville.	A. Abbott.	34 <sup>1</sup>	3	12 do.	75 00
Heather and Walkers.	D. McIntyre.	3	2	12 do.	40 00
Henfryn and Railway Station.	A. J. Selwood.	17 <sup>1</sup>	6	12 do.	40 00
Henry and L'Original.	J. Tessier.	42 <sup>1</sup>	3	12 do.	65 00



DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Hensall and Railway Station....	J. Sutherland....	12	12	12 months.....	99 84
Hensall and Rodgerville.....	H. Doan.....	6	12	do .....	120 00
Hensall, Zurich and Ry. Station..	T. Murdock.....	6	12	do .....	320 00
Hepworth and Railway Station....	T. Kemp.....	6	12	do (less fine) .....	158 00
Hereward and Railway Station....	D. Brown.....	4	6	do .....	128 00
Hewitt and Marshville Station....	J. B. Hewitt....	6	12	do .....	45 00
Hiawatha and Peterboro'.....	W. Troop.....	12	2	do (to Dec. 31, '88)..	108 75
do do .....	O. A. Cragg....	11	2	do from do ..	36 25
Hickson and Railway Station.....	L. Elsley.....	1	12	do .....	20 00
Highgate and Railway Station....	D. Teetzel.....	1	12	do .....	144 00
Highgate and Turin.....	do .....	5	8	do .....	90 00
Hillier and Railway Station.....	H. Palmer.....	1	12	do .....	93 60
Hillier and Rosehall.....	R. McCartney..	2	13	do .....	106 00
Hillman and Leamington.....	R. Manery.....	6	2	do .....	75 00
Hillsburgh and Railway Station....	J. Carmichael..	3	6	do .....	80 00
Hillsburgh Station and Marsville..	J. Hanna.....	7	6	do .....	325 00
Hillsdale and Moonstone.....	C. Waugh.....	13	3	do .....	240 00
Hinch and Newburgh.....	B. Lewis.....	6	2	do .....	70 00
Hintonburg and Mechanicsville....	H. Lapointe....	1	3	do .....	25 00
Hoath Head and Owen Sound.....	M. Dealy.....	7	1	do .....	60 00
Hockley and Mono Centre.....	R. Colwell.....	11	6	do .....	370 00
Holland Centre and Lily Oak.....	J. Bruce.....	4	1	do .....	40 00
Holland Centre and Ry. Station....	C. Price.....	1	24	do .....	110 00
Holland Landing and Ry. Station..	W. Luck.....	1	24	do .....	74 88
Holly Park, King and Nobleton....	D. O. Crossley..	10 & 4	6 & 3	do .....	368 00
Holmesville and Porter's Hill.....	A. Knox.....	4	3	do .....	75 00
Holmesville and Railway Station....	do .....	1	12	do .....	50 00
Holstein and Murdock.....	G. Pollock.....	4	3	do .....	74 72
Holstein and Nenagh.....	T. Stephenson..	8	6	do .....	234 00
Holstein and Railway Station.....	S. Seaman.....	12	12	do .....	53 00
Holt and Mount Albert.....	J. Roseman.....	3	6	do .....	125 00
Honeywood and Horning's Mills....	J. Ostic.....	9	3	do (to Sept. 30, '88)..	62 50
do do .....	do .....	6	6	do from do ..	99 00
Hoodstown and Huntsville.....	J. F. Hanes.....	10	2	do (to Dec. 31, '88)..	89 82
do do .....	G. A. Hutchins..	9	2	do from do ..	30 00
Hopetown and Lanark.....	W. Maguay.....	7	3	do .....	75 00
Hopetown and White.....	R. Jordan.....	12	1	do .....	55 00
Hopeville and Swinton Park.....	J. Martin.....	4	2	do .....	50 00
Horning's Mills and Shelburne Station	J. Ostic.....	6	6	do .....	170 00
Horning's Mills and Singhampton..	J. Richards.....	18	3	do (to Sept. 30, '88)..	127 50
Housey's Rapids and Washago.....	H. Nichols.....	16	2	do (to June 30, '88)..	33 75
do do .....	S. C. Tyler.....	16	2	do from do ..	93 75
Howe Island and Kingston.....	J. O'Brien.....	14	3	do and arrears....	255 29
Humber and Weston.....	C. R. Dade.....	8	6	do .....	300 00
Humber Bay and Railway Station....	M. L. Carlisle..	150 yds	12	do (to Dec. 31, '88)..	30 00
do do .....	W. F. Duck.....	150 yds	12	do from do ..	10 00
Humberstone and Railway Station..	D. Stapf.....	1	24	do .....	156 25
Huntsville and Railway Station....	D. Kernaghan..	1	12	do .....	124 80
Huston and Railway Station.....	R. Kirkby.....	1	12	do .....	50 00
Huston and Treacastle.....	D. Callaway....	4	3	do .....	96 00
Hyde Park Corner and Ry. Station..	L. McNames....	1	3	do .....	40 00
Indian River and Ry. Station.....	M. Guerin.....	5	3	do .....	80 00
Ingersoll and Lakeside.....	W. Brock.....	16	6	do .....	475 00
Ingersoll and Peebles.....	B. Dennis.....	6	2	do .....	59 00
Ingersoll and Port Burwell.....	E. Gray.....	32	6	do .....	855 00
Ingersoll and Ry. Station.....	J. Shannon.....	8	12	do .....	112 32
Ingersoll and Street Letter Boxes..	W. McKim.....	18	9	do (from July 1, '88)	123 00
Inglewood and Ry. Station.....	J. Graham.....	1	12	do .....	52 00
Inkerman and Iroquois.....	A. Servis.....	23	6	do .....	356 92
Innerkip and Ry. Station.....	G. Hotson.....	1	12	do .....	108 00
Innisfil and Stroud.....	T. W. Boyes....	3	6	do (to Sept. 30, '88)..	57 50
do do .....	E. Taylor.....	3	6	do from do ..	57 50
International Bridge and Ry. Station	G. Graham.....	1	24	do .....	150 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Inverhuron and Tiverton.....	H. Cameron.....	3	3	12 months.....	70 00
Invermay and Ry. Station.....	A. Neelands.....	12	12	do .....	156 00
Inwood and Ry. Station.....	J. M. Courtright.....	25 yds	12	do .....	30 00
Iona and Ry. Station.....	W. Fletcher.....	2	12	do .....	125 00
Irena and Rowena.....	T. S. Carter.....	3	3	12 do .....	80 00
Irish Creek Station and Merrickville.....	D. Crozier.....	9	6	12 do .....	300 00
Islington and Ry. Station.....	T. Musson.....	1	6	12 do .....	93 60
Ivy and Thornton.....	J. Graham.....	4½	6	6 do (to Sept. 30, '88).	75 00
do .....	T. Brown.....	4½	6	6 do from do .....	59 50
Ivy Lea and Lansdown.....	J. Ivey.....	4	2	12 do .....	53 75
Jackfish Bay and Ry. Station.....	S. A. Eakins.....	1	12	12 do .....	50 00
Jaffa and Orwell.....	W. Faunt.....	3	2	12 do .....	45 00
Janetville and Pontypool.....	R. Gillis.....	29 r. t.	6	12 do .....	475 00
Jarvis and Ry. Station.....	E. A. Lea.....	3	6 & 24	12 do .....	218 40
Jefferson and King Station.....	G. Harper.....	9½	6	12 do .....	320 00
Jellyby and Ry. Station.....	A. Wing.....	300 yds	3	11 do (from May 1, '88)	22 91
Jermyn and Lang.....	A. C. Brown.....	4	3	9 do (to Dec. 31, '88)..	56 25
do .....	G. English.....	4	3	3 do from do .....	17 50
Jocelyn and Marksville.....	C. Young.....	12½	1	12 do .....	90 00
Jockvale and Manotick.....	J. Fermoyle.....	5½	3	12 do .....	100 00
Johnson's Mills and Zurich.....	D. Spencer.....	4	2	12 do .....	49 00
Jones Falls and Moreton.....	T. Kenney.....	3	2	3 do (to June 30, '88).	18 75
do .....	A. Scott.....	3	3	9 do from do .....	49 00
Jordan and Pelham Union.....	H. N. Crosby.....	4	2	12 do .....	60 00
Juddhaven and Port Carling.....	A. Thomson.....	14	1	Bal. of season 1887-88..	9 50
do .....	F. E. Judd.....	14	1	Part do 1888-89.....	40 00
Jura and Thedford.....	J. McCordie.....	7½	3	12 months.....	111 40
Kagawong and Perivale.....	T. N. Pierce.....	13	1	12 do .....	72 00
Katrine and Catching Post.....	J. Mawhinney.....	1½	6	12 do .....	124 80
Katrine and Orange Valley.....	R. White.....	6	1	12 do .....	40 00
Kearney and Emsdale Station.....	A. J. O'Neil.....	6	3	12 do .....	110 00
Kearney and Ravensworth.....	J. C. Harvey.....	7	1	12 do .....	40 00
Kearney and Sand Lake.....	J. Hunter.....	8	1	12 do .....	45 00
Keene and Ry. Station.....	J. Frost.....	1½	12	12 do .....	119 00
Keith and Tupperville.....	R. Killins.....	1½	2	12 do .....	45 00
Keldon and Shelburne.....	W. Brown.....	9½	2	12 do .....	100 00
Kells and Powassan Station.....	H. Anderson.....	8½	1	12 do .....	60 00
Kelso and Christie's Crossing.....	D. Smith.....	4	6	12 do .....	40 00
Kemble and Wolseley.....	J. Hearn.....	5	1	12 do .....	40 00
Kemptville and Merrickville.....	C. W. Putnam.....	18	6	12 do .....	550 00
Kemptville and Ry. Station.....	W. Dickinson.....	1	18	12 do .....	271 44
Kemptville and South Gower.....	A. W. Tomkins.....	11	3	12 do .....	173 00
Kenilworth and Petherton.....	M. Enright.....	3	6	12 do .....	125 00
Kenilworth and Railway Station.....	C. J. Gordon.....	½	12	12 do .....	80 00
Kenmore and North Branch.....	P. A. Harrison.....	4	6	12 do .....	75 00
Kenney and Mitchell Road.....	J. Kenney.....	2½	2	12 do .....	80 00
Kent Bridge and Thorncliffe.....	G. B. Shaw.....	3	2	12 do .....	50 00
Keswick and Roach's Point.....	J. Cake.....	3	6	9 do (from July 1, '88)	86 25
Khiwa and Shipka.....	W. Holt, jr.....	2	2	12 do .....	39 48
Kilgorie and Whitfield.....	J. Maw.....	4½	2	3 do (to June 30, '88).	12 50
do .....	J. Gallagher.....	4½	2	9 do from do .....	37 50
Killaloe and Ruby.....	J. Rankin.....	7	2	12 do .....	90 00
Killarney, Little Current and Manitowaning.....	McLaughlin & Riddell.....	25 & 24	1 & 2	5 do 21 days (broken period).....	500 77
Killyleagh and Thornton.....	J. Hicks.....	3	2	12 do .....	39 76
Kilmanagh and Mono Road Station.....	H. McTaggart.....	3	3	12 do .....	81 75
Kilmarnock and Smith's Falls.....	W. G. Halliday.....	8½	2	12 do .....	105 00
Kilworthy and Railway Station.....	G. A. Lehman.....	100 ft.	6	6 do (to Sept. 30, '88).	7 50
Kilworthy and Mail Catching Post.....	do .....	200 yd	6	6 do .....	15 00
Kilworthy and Sparrow Lake.....	A. Wiancko.....	4½	2	12 do .....	60 00
Kimball and Railway Station.....	J. V. Shaw.....	1½	6	12 do .....	25 00

## DETAIL of all payments for Mail Transportation in Ontario, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Kimball and Seckerton.....	T. Johnston.....	3	2	12 months.....	60 00
Kimball and Wabuno.....	T. Capes.....	3½	6	12 do.....	150 00
Kincardine and Port Elgin.....	A. McDougall.....	24	6	12 do.....	617 00
Kincardine and Railway Station.....	J. Harkin.....	4	30	12 do.....	300 00
Kincardine and Walkerton.....	P. McColl.....	28	6	12 do (less fines).....	569 00
King and Railway Station.....	T. Harker.....	½	6	12 do.....	50 00
Kingarf and Kinloss.....	B. Moulton.....	4	2	12 do.....	60 00
Kinghurst and Mooresburg.....	J. A. King.....	5½	2	6 do (from Oct. 1, '88).....	26 00
Kingscourt and Railway Station.....	J. Pelkey.....	4	3	12 do.....	39 00
Kingsmill and Mapleton.....	L. Johnson.....	4	6	12 do.....	163 00
Kingsmill and Railway Station.....	C. Hazen.....	40 r'ds	12	12 do.....	43 84
Kingston and Newboro'.....	R. W. Copeland.....	41	6	12 do.....	1,094 00
Kingston and Newburg.....	H. Finkle.....	27	6	3 do (to June 30, '88).....	150 00
do do.....	C. H. Finkle.....	27	6	9 do from do.....	450 00
Kingston and Perth Road.....	J. Stoness.....	18	6	12 do.....	437 00
Kingston and Portsmouth.....	W. Wilson.....	2½	12	3 do (to June 30, '88).....	56 25
do do.....	T. C. Wilson.....	2½	12	9 do from do.....	168 75
Kingston and Kingston Station.....	do.....	2	6	12 do.....	31 20
Kingston Station and Railway Station.....	B. McConville.....	24	12	12 do.....	345 00
do do.....	A. Campbell.....	100 y.	12	5 do 24 days (to Jan. 31, '89).....	23 99
Kingsville and Oxley.....	A. Elliott.....	10	3	12 do.....	120 00
Kingsville and Pelée Island.....	H. T. Lidwill.....	20	1	6 do (See waterservice).....	285 00
Kinkora and Sebringville.....	F. J. Collins.....	12	3	12 do.....	160 00
Kinloss and Lucknow.....	R. Lithco.....	10	6	6 do (to Sept. 30, '88).....	137 50
do do.....	J. Brownscombe.....	10	6	6 do from do.....	100 00
Kinlough and Westford.....	A. W. Haldenby.....	3½	2	12 do.....	40 00
Kinmount and Minden.....	H. Workman.....	12	6	3 do (to June 30, '88).....	50 00
do do.....	D. J. Hartle.....	12	6	9 do from do.....	100 00
Kinmount and Mount Irwin.....	T. Peacock.....	7	1	12 do.....	35 00
Kinmount and Railway Station.....	J. Wilson.....	4	12	12 do.....	40 00
Kippen and Railway Station.....	R. Mellis.....	12	12	12 do.....	99 84
Kirkwall, Rockton and Valens.....	J. Harper.....	15r.t.3	6 & 2	12 do.....	195 00
Kleinburg and Railway Station.....	W. T. Simpson.....	1½	12	9 do (to Dec. 31, '88).....	112 50
do do.....	J. Cairns.....	1½	12	3 do from do.....	37 50
Klock's Mills and Railway Station.....	J. B. Klock.....	8	12	12 do.....	10 00
Knapdale and Newbury.....	J. Macdonald.....	6	1	12 do.....	40 00
Knapore and Ravenna.....	G. Wilson.....	5	2	4 do (to July 31, '88).....	17 33
do do.....	do.....	5	3	8 do from do.....	43 33
Kossuth and Preston.....	N. Sohrt.....	5½	2	12 do.....	70 48
Lafontaine and Penetanguishene.....	P. Brasseur.....	10½	3	12 do.....	110 48
Lake Charles and Oxenden.....	J. Davidson.....	5	1	12 do.....	40 00
Lakefield and Lakehurst.....	J. Record.....	19	3	9 do (to Dec. 31, '88).....	195 00
do do.....	A. Johnston.....	19	3	3 do from do.....	59 75
Lakefield and Railway Station.....	J. Cooper.....	4	12	12 do.....	93 60
Lake Opinicon and Perth Road.....	L. Johnson.....	10	3	12 do.....	136 00
Lake Talon and Railway Station.....	F. McDonald.....	100 yd	6	12 do (and arrears).....	25 00
Lalonde and Plantaganet.....	W. H. McKay.....	5	1	8 do (from Aug. 1, '88).....	16 67
Lambeth and Raper.....	J. Howlett.....	4	2	12 do.....	48 00
Lambton Mills and Ry. Station.....	J. Lynn.....	4	18	12 do.....	162 00
Lammermoor and Watson's Corners.....	W. Gibson, jr.....	7	1	12 do.....	45 00
Lanark and McDonald's Corners.....	J. D. McInnes.....	14	3	6 do (to Sept. 30, 1888).....	97 00
Lanark and Middleville.....	A. Lawson.....	7	6	12 do.....	170 00
Lanark and Perth.....	R. Hogan.....	12	6	12 do.....	64 00
Lanark and Watson's Corners.....	J. McFarlane.....	7	3	6 do (from Oct. 1, 1888).....	45 00
Lancaster and Martintown.....	J. Baggallay.....	12	6	12 do.....	327 50
Lancaster and South Lancaster.....	W. Gillespie.....	1	12	12 do.....	125 00
Lang and Railway Station.....	A. Colville.....	1	12	12 do.....	90 00
Langside and Lucknow.....	J. McDonald.....	6½	2	9 do (to Dec. 31, 1888).....	75 00
do do.....	F. Greer.....	6½	2	3 do from do.....	22 50
Langstaff and Thornhill.....	J. Langstaff.....	12	6	3 do (to June 30, 1888).....	15 00
do do.....	H. Horne.....	1½	6	9 do from do.....	45 00
Langton and Marston.....	E. Long.....	5	2	12 do.....	44 12

DETAILS of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Lansdown and Sand Bay .....	W. H. Fodey .....	8 $\frac{1}{2}$	2	5 months (to Aug. 31, '88)	43 33
do do .....	do .....	8 $\frac{1}{2}$	3	7 do from do ..	63 70
Lansdown and Tilley .....	H. Bradley .....	3 $\frac{1}{2}$	1	12 do .....	30 00
Larkin and Stoco .....	D. G. Larkin .....	6	1	12 do .....	50 00
La Salette and Railway Station .....	J. Gibbons .....	1 $\frac{1}{2}$	24	12 do .....	60 00
Latimer and Wolf's Corners .....	B. S. Wartman .....	1	3	12 do .....	70 00
Laurel and Railway Station .....	J. Davis .....	1 $\frac{1}{2}$	6	9 do (to Dec. 31, 1888)	69 32
Lavant and Watson's Corners .....	A. Browning .....	13	2	12 do .....	100 00
Lavant Station and Plevna .....	W. C. T. Plotz .....	23	3	12 do .....	390 00
Lawrence Station and Ry. Station .....	H. J. Watts .....	5	6	9 do (to Dec. 31, 1888)	116 32
do do .....	A. Widdifield .....	5	6	3 do from do ..	38 12
Leamington and Railway Station .....	L. Wigle .....	3 $\frac{1}{2}$	24	5 do (from Nov. 1, '88)	20 83
Leaskdale and Sunderland Station .....	A. St. John .....	13	6	12 do .....	340 00
Lebanon and Moorefield .....	J. Sinclair .....	8	3	12 do .....	150 00
Leinster and Roblin .....	F. Paul .....	7	2	12 do .....	67 00
Leitrim and Railway Station .....	H. Cowan .....	9	3	12 do .....	198 24
Lemieux and Riceville .....	A. Chesser .....	6 $\frac{1}{2}$	1	12 do .....	38 00
Lemoville and Stouffville .....	J. McConnochie .....	5 $\frac{1}{2}$	6	12 do .....	181 25
Leskard and Newcastle .....	J. M. Jackson .....	10	6	12 do .....	300 00
Leskard and New Park .....	R. Fuller .....	4	2	12 do .....	52 48
Letter Kenny and Rockingham .....	J. Gallagher .....	6	1	12 do .....	46 00
Lidcote and Railway Station .....	S. Duncan .....	1 $\frac{1}{2}$	2	12 do .....	30 00
Lily Lake and Manitowaning .....	H. McLaughlin .....	7	1	12 do .....	70 00
Lime Bank and Manotick Station .....	F. Hardy .....	3 $\frac{1}{2}$	3	12 do .....	60 00
Lime Lake and Marlbank .....	J. Henderson .....	4	3	12 do .....	78 00
Linderwood and Presqu'Isle .....	G. Shaw .....	5	1	12 do .....	40 00
Lindsay and Midland Ry. Station .....	B. Gunigle .....	1 $\frac{1}{2}$	36	12 do .....	320 00
Lindsay and Victoria Ry. Station .....	H. Workman .....	1 $\frac{1}{2}$	12	12 do .....	70 00
Lindsay and Street Letter Boxes .....	S. Byrne .....	5	18	12 do .....	250 00
Lindsay and Sturgeon Point .....	G. Crandall .....	4	1	6 do (See water service)	75 00
Linton and Lloydtown .....	W. Rolling .....	3 $\frac{1}{2}$	6	12 do .....	142 50
Linwood and St. Jacob's .....	F. A. Baker .....	12	6	12 do .....	398 00
Lion's Head and Wiarton .....	L. Hyatt .....	55	3	6 do (to Sept. 30, 1888)	300 00
do do .....	C. Williams .....	55	3	6 do from do ..	175 00
Lisbon and Wellesley .....	P. Glebe .....	2	2	12 do .....	60 00
Lisburn and Ripley .....	H. Teskey .....	2 $\frac{1}{2}$	2	6 do (to Sept. 30, 1888)	12 00
do do .....	D. Teskey .....	2 $\frac{1}{2}$	2	6 do from do ..	12 50
Lisgar and Trafalgar Station .....	W. J. Marshall .....	1	6	12 do .....	73 52
Lisle and Railway Station .....	R. Wade .....	1 $\frac{1}{2}$	12	12 do .....	50 00
Listowel and Molesworth .....	S. Lougheed .....	11	6	9 do (to Dec. 1, '88)	187 11
do do .....	E. Terry .....	11	6	3 do from do ..	62 00
Listowel and Railway Station .....	C. Hacking .....	1 $\frac{1}{2}$ & 3	18 & 12	12 do (less fine) .....	225 00
Little Britain and Railway Station .....	H. Wills .....	2	12	12 do .....	100 00
Little Britain and Valentia .....	J. Moffatt .....	5 $\frac{1}{2}$	3	12 do .....	77 00
Little Current and Massey Station .....	W. Peters .....	26	3	4 do 16 days (from Nov. 15, '88)	580 00
Little Current and Sault Ste. Marie .....	W. H. Plummer .....	169	1	Balance of season '88 .....	422 00
Little Current and Sheguindah .....	W. Caughill .....	8	2	Season 1888 .....	50 00
Little Current and Sudbury .....	W. Peters .....	76	2	Balance of season 1888 .....	250 00
Little Rapids and Thessalon .....	J. B. Dobie .....	3	1	9 mos. (from July 1, '88)	19 50
Littlewood and Tempo .....	W. H. May .....	3	2	12 months .....	40 00
Lochalsh and Ripley .....	J. McRitchie .....	8 $\frac{1}{2}$	3	6 do (from Oct. 1, '88)	72 00
Loch Garry, Maxville and Railway Station .....	A. J. Kennedy .....	11 & 1	6	12 do .....	494 00
Loch Winnoch and Railway Station .....	R. Storie .....	1 $\frac{1}{2}$	6	12 do .....	60 00
Lockton and Centreville Station .....	D. Horan, jr. ....	13 $\frac{1}{2}$	6	12 do .....	95 00
Londesborough and Railway Station .....	J. Bell .....	5	12	12 do .....	156 00
London and London East .....	H. Keys .....	1	24	12 do .....	140 00
London and London West .....	J. R. Curd .....	1 $\frac{1}{2}$	12	9 do (from July 1, '88)	60 00
London and Lucan .....	J. Judge .....	16 $\frac{1}{2}$	6	12 do .....	399 00
London and Nairn .....	A. M. Conway .....	21 $\frac{1}{2}$	3	12 do .....	300 00
London and Odell .....	T. Tomlinson .....	23	3	12 do .....	55 00
London and Petersville .....	J. R. Gurd .....	1 $\frac{1}{2}$	12	3 do (to June 30 '88)	20 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
London and C. P. Railway Station.	T. R. Parker ...	$\frac{1}{4}$	6	12 months .....	78 00
London and L. H. and B. Railway Station.	Hendrie & Co. ...	$\frac{1}{4}$	24	12 do .....	200 00
London and Street Letter Boxes.	M. O'Meara. ....	$\frac{1}{4}$	12	12 do .....	78 00
Longford Mills and Railway Station.	W. Thomson. ....	$\frac{1}{4}$	24	12 do .....	40 00
Longford Station and Rama.	J. McPherson. ....	$\frac{1}{4}$	6	12 do .....	80 00
Long Lake and Mountain Grove.	J. Bender. ....	$\frac{7}{8}$	2	12 do .....	84 00
Londsdale and Marysville.	J. Whiteman. ....	4	3	12 do .....	100 00
L'Original and Railway Station.	Lee & Seguin. ....	3	6	12 do .....	313 00
Lorimer Lake and McKellar.	F. B. Ferris. ....	8	1	12 do .....	60 00
Lorneville and Railway Station.	C. Morison. ....	$\frac{1}{4}$	12	12 do .....	60 00
Lowbanks and Boulton Ditch Crossing.	I. Michener. ....	$\frac{3}{4}$	6	12 do .....	80 00
Lowville and Milton.	W. Griffith. ....	7	6	12 do .....	200 00
Lucan, McGillivray and Railway Station.	J. Hodgins. ....	3	18	12 do .....	468 00
Lucan and Railway Station.	W. Porte. ....	$\frac{1}{4}$	6	12 do .....	46 80
Lucknow and Railway Station.	W. Mellis. ....	$\frac{1}{4}$	30	12 do .....	312 00
Lyn and Railway Station.	J. Baird. ....	1	6	12 do .....	62 40
Lyndhurst and Seeley's Bay.	W. D. Witherell. ....	8	6	12 do .....	168 00
Lynn Valley and Railway Station.	E. Edmonds. ....	$\frac{1}{2}$	12	12 do .....	25 00
Lynnville and Railway Station.	A. A. Stewart. ....	$\frac{2}{4}$	6	6 do (to Sept. 30, '88).	49 50
do do.	W. Axford. ....	$\frac{2}{4}$	6	6 do from do ..	49 50
McCreedy and Newbury.	D. Ross. ....	5	2	12 do .....	60 00
McDonald's Corners and McLaren's Depot.	S. Burns. ....	11.	6	6 do from (Oct. 1, '88)	119 50
McGregor and Railway Station.	F. A. Reaume. ....	$\frac{1}{2}$	12	12 do .....	49 92
McIntyre and Flesherton Road.	D. C. McFarlane. ....	$\frac{1}{4}$	6	6 do (to Sept. 30, '88).	35 00
McKenzie, Lake and Maynooth.	J. Cannon. ....	13	1	12 do .....	88 00
McLean and Mountain Grove.	D. C. McLean. ....	8	1	12 do .....	52 00
Maberly and Railway Station.	J. Morrow. ....	1	6	12 do .....	40 00
Mackie's Station and Railway Station.	J. Dunlap. ....	$\frac{1}{2}$	12	12 do .....	24 96
Mackie's Station and Rapides des Joachims.	do .....	8	3	12 do .....	180 00
Macville and Railway Station.	J. Archdekin. ....	$\frac{1}{2}$	6	12 do .....	55 00
Madoc and C. O. Railway Station.	R. S. Allt. ....	7	12	3 do (to June 30, 1888)	78 00
do do.	do .....	7	6 & 12	9 do from do ..	177 50
Madoc and Midland Railway Station.	S. Barnum. ....	$\frac{1}{2}$	12	12 do .....	62 40
Madoc and Queensboro.	W. Wiggins. ....	8	6	12 do .....	200 00
Magnetawan and Nipissing.	C. Thedorf. ....	34	3	6 do (to Sept. 30, 1888)	374 50
do do.	A. McLachlan. ....	34	3	6 do from do ..	374 50
Magnetawan and Seguin Falls.	A. Best. ....	21	3	9 do (to Dec. 31, 1888)	216 00
do do.	H. Irwin. ....	21	3	3 do from do ..	72 00
Maidstone and Railway Station.	T. Moran. ....	$\frac{1}{4}$	12	12 do .....	124 80
Malakoff and North Gower.	A. Johnston. ....	4	3	12 do .....	71 25
Mallorytown and Poole's Resort.	G. E. Andrews. ....	5	6 & 3	10 do (from June 1, '88)	75 00
Mallorytown and Rockfield.	J. Herbison. ....	5	2	12 do .....	80 00
Mallorytown and Rockport.	J. Dickey. ....	12 $\frac{1}{2}$	3 & 6	12 do .....	173 00
Mallorytown and Yonge's Mills.	B. Burnham. ....	4	2	12 do .....	60 00
Malone and Railway Station.	G. Richardson. ....	$\frac{1}{4}$	3	6 do (to Sept. 30, '88)	19 50
do do.	C. Thompson. ....	$\frac{3}{4}$	3	6 do from do ..	19 50
Malta and Severn Bridge.	T. Whyte. ....	4	2	12 do .....	68 75
Malton and Sandhill.	S. Scales. ....	12	6	12 do .....	321 00
Malvern and Scarboro' Junction.	J. Gibson. ....	21r.t.	6	11 do (to Feb. 28, 1889)	314 32
do do.	R. Bell. ....	23 $\frac{1}{2}$ r.t.	6	1 do from do ..	34 16
Manchester and Railway Station.	J. Amsbary. ....	$\frac{1}{4}$	12	12 do .....	108 00
Mandamin and Vyner.	T. Carrick. ....	5	3	12 do .....	132 00
Manilla and Railway Station.	E. Z. Yerex. ....	2	12	3 do (to June 30, 1888)	55 00
do do.	J. Milne. ....	2	12	3 do (to Sept. 30, '88).	55 00
Manilla and Junction.	S. Harper. ....	$\frac{1}{4}$	12	1 do 4 days (to Nov. 4, 1888)	13 69
do do.	do .....	$\frac{1}{2}$	6	4 months 26 days (from Nov. 5, 1888) ..	66 97

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Manitowaning and Providence Bay	N. McLaughlin.	34	2	12 months	379 00
Manotick and Railway Station	T. McCorkill.	3 $\frac{1}{2}$	6	12 do	62 40
Mansewood and Railway Station	A. Wooding	1 $\frac{1}{2}$	6	12 do	50 00
Manver's Station and Railway Station	H. McCullough.	1 $\frac{1}{2}$	6	12 do	38 99
Maple and Purpleville	J. Rupert	14r.t.	6	12 do	219 00
Maple and Railway Station	J. Hood	$\frac{1}{2}$	12	12 do	136 00
Maple Island and Whitestone	G. Montgomery.	10	1	12 do	40 00
Maple Lake and Minden	C. E. Melville.	21	1	12 do	80 00
Maple Lodge and Railway Station	G. Windsor	1 $\frac{1}{2}$	3	12 do	57 50
Mar and Red Bay	J. McFarlane.	7	2	12 do	77 00
Markdale and Railway Station	A. Turner	1 $\frac{1}{2}$	24	3 do (to June 30, 1888)	22 25
do do	W. J. Manley	$\frac{1}{2}$	24	9 do from do	66 75
Markdale and Traverston	E. Darcey	8&9 $\frac{1}{2}$	2&3	9 do (to Dec. 31, 1888)	111 75
do do	T. Edward	8&9 $\frac{1}{2}$	2&3	3 do from do	31 75
Markham and Railway Station	F. G. Percy	$\frac{1}{2}$	24	12 do	156 00
Marksville and Tenby Bay	B. P. Fuller, jr.	13	1	12 do	65 00
Marlbank and Tamworth	W. Burley	8	6	12 do	195 00
Marmora and Railway Station	N. McWilliams.	2 $\frac{1}{2}$	12	12 do	125 00
Marmora and Stirling	do	16	6	12 do	400 00
Marmora and Wariston	J. A. Allen	9	1	7 do (to Oct. 31, 1888)	29 16
Marshallville and Railway Station	W. McOuet	3 $\frac{1}{2}$	5	12 do	130 00
Mattawa and Railway Station	E. J. Smith.	1	12	12 do	132 91
Maxville and Railway Station	D. A. McArthur	$\frac{1}{2}$	18	12 do	75 00
Maxville and Riceville	V. Leger	15	6	6 do (to Sept. 30, 1888)	156 50
do do	W. H. Metcalfe.	17 $\frac{1}{2}$	6	6 do from do	223 50
Maynooth and Ormsley	W. H. Jarman.	31	6	12 do	1,100 00
Meadowvale and Railway Station	C. W. Switzer.	$\frac{1}{2}$	12	12 do	118 56
Meaford and Owen Sound	J. F. Leavens.	20	6	12 do	150 00
Meaford and Railway Station	M. Paul.	$\frac{1}{2}$	24	12 do	100 00
Meaford and Walter's Falls	J. Campbell	22r.t.	2	12 do	200 00
Mecunoma and South River	W. Adams	15	2	12 do	288 00
Mecunoma and Wattenwyl	A. Egger	3	2	12 do	40 00
Melancthon and Railway Station	J. Brown	$\frac{1}{2}$	6	12 do	68 64
Melbourne and Middlemiss	J. Greaves	4	6	12 do	129 75
Melbourne and Railway Station	I. M. Cady	$\frac{1}{2}$	12	12 do	50 00
Melissa and Catching Post	H. Mason	$\frac{1}{2}$	12	12 do	24 00
Melville Cross and Railway Station	H. Scott	$\frac{1}{2}$	6	12 do	30 00
Merivale and Ottawa	J. A. Hopper	8	3	12 do	120 00
Merrickville and Railway Station	M. Fitzgerald	$\frac{1}{2}$	12	10 do 18 days (from May 14, '88)	74 96
Merritt and Varney	J. G. Wilson	5	2	12 do	75 00
Midland and Penetanguishene Stn.	J. Smith	5	6	12 do	119 48
Midland and Railway Station	T. B. J. Gladstone	$\frac{1}{2}$	24	12 do	120 00
Mildmay and Railway Station	G. Herringer	$\frac{1}{2}$	12	12 do	90 00
Milford and Picton	E. H. Thibault.	10	6	12 do	140 00
Milford and Point Traverse	J. J. Vandusen.	10 $\frac{1}{2}$	2	12 do	75 00
Millbank Station and Morningdale Mills	W. Strachan	5	12	9 do (to Dec. 31, '88)	206 25
do do	J. R. Ferguson.	5	12	3 do from do	68 75
Millbridge and Railway Station	D. Hogan	1 $\frac{1}{2}$	6	12 do	100 00
Millbrook and Street Letter Box	W. Williams	$\frac{1}{2}$	6	12 do	50 00
Millbrook and Mount Pleasant	J. McLean	8	6	12 do	263 00
Millbrook and Railway Station	W. Vance	3 $\frac{1}{2}$	30	12 do	280 80
Mille Roches Station and Moulinette	S. Forsyth	1	12	12 do	120 00
Millington and Uptergrove Station	A. P. McDonald	3 $\frac{1}{2}$	3	12 do	74 00
Milton and Railway Station	J. McIntosh	$\frac{1}{2}$ & $\frac{1}{2}$	12 & 18	12 do	130 00
Milverton and Railway Station	W. H. Dorland.	1	12	12 do	124 80
Milverton Ry. Station and Topping	E. Taylor.	6	6	12 do	225 00
Mimosa and Orton	J. Cawthra.	4 $\frac{1}{2}$	3	12 do	72 00
Mindemoya and Tehkummah	S. Sloan	27	1	12 do	149 00
Minesing and Railway Station	J. Young	2	6	12 do	84 24
Minesing and Russellton	J. Campbell	6	3	12 do	120 00
Mitchell and Railway Station	W. W. Hicks	3 $\frac{1}{2}$	24	12 do	149 76
Mitchell and Russeldale	J. Cole	8	6	12 do	175 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route,	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Mitchell's Bay and Oungah.....	A. P. Akins.....	8½	2	12 months.....	120 00
Moirs and Plainfield.....	W. H. Dean.....	8	3	12 do.....	125 00
Moltke and Neustadt.....	R. Lang.....	2½	3	12 do.....	60 00
Monckland and Strathmore.....	D. McIntosh.....	3	3	12 do.....	40 00
Moneymore and Roslin.....	J. Thompson.....	6½	1	12 do.....	30 00
Mono Centre and Orangeville.....	T. Sanderson.....	25 r.t.	6	12 do.....	568 52
Mono Mills and Mono Road Station.....	J. N. Sharpe.....	9	6	12 do.....	343 00
Mono Road Station and Ry. Station.....	J. Judge.....	½	6	12 do.....	4 00
Montrose and Port Robinson.....	A. Welstead.....	5	3	12 do.....	120 00
Moore and Railway Station.....	J. Morrison.....	½	12	12 do.....	50 00
Moorefield and Railway Station.....	R. Kirkby.....	¼	12	12 do.....	60 00
Moose Creek and Moulinette.....	T. D. Stark.....	20	6	12 do.....	493 00
Moose Creek and Railway Station.....	T. Dorey.....	½	12	9 do (from July 1, '88)	37 50
Morewood and Railway Station.....	J. Cochrane.....	18	6	12 do.....	398 00
Morpeth and Thamesville.....	R. S. Walters.....	15	6	12 do (less fine).....	242 00
Morrisburg and Waddington, U.S.....	W. J. Murphy.....	3	6	12 do.....	50 00
Morrisburg and West Winchester.....	L. Bellinger.....	17	6	9 do (to Dec. 31, '88)	337 50
do do.....	J. S. Ross.....	17	6	3 do from do.....	112 50
Mortimer's Point and Port Carling.....	W. Mortimer.....	6	1	Season 1888-89.....	15 00
Mossborough and Railway Station.....	J. I. Hobson.....	½	12	12 months.....	60 00
Motherwell and St. Mary's.....	J. Pettapiece.....	10	3	12 do.....	150 00
Mountain and Van Camp.....	R. Shaver.....	3	6	8 do (from Aug. 1, '88)	72 80
Mountain Grove and Ry. Station.....	A. McDonald.....	100 y.	12	12 do.....	20 00
Mount Albert and Railway Station.....	J. Roseman.....	½	12	12 do.....	74 00
Mount Albion and Rymal Station.....	H. H. Davis.....	2½	3	12 do.....	96 00
Mount Forest and Railway Station.....	J. H. Coyne.....	½ & 5	12 & 24	12 do (less fine).....	168 64
Mount Horeb and Reaboro.....	W. Elliott.....	5	3	12 do.....	100 00
Mount Sherwood and Ottawa.....	A. Ardley.....	3	6	12 do.....	275 00
Mull and Railway Station.....	N. Watson.....	½	6	12 do.....	50 00
Muncey and Railway Station.....	A. McGregor.....	15 rods	12	12 do.....	35 00
Murilla Station and Ry. Station.....	J. McLean.....	½	6 & 12	12 do.....	112 49
Murilla Station and Silver Mountain.....	McKenzie Bros.....	24	3	2 do (from Feb. 1, '89)	66 66
Murray and Railway Station.....	C. N. Sherriff.....	1	12	12 do.....	106 08
Murvale Station and Railton.....	J. O'Reilly.....	4½	6	12 do.....	120 00
Muskoka Mills and Penetanguishene.....	J. Landrigan.....	20	1	12 do.....	208 00
Mussellburg and Poole.....	W. Burgmann.....	½	6	12 do.....	30 00
Myrtle and Railway Station.....	W. R. Derby.....	¼	12	12 do.....	60 00
Nantye and Catching Post.....	S. Spillet.....	¾	6	12 do.....	40 00
Napanee and Street Letter Boxes.....	G. Bogart.....	.....	18	9 do (from July 1, '88)	56 25
Napanee and Switzerville.....	P. E. R. Miller.....	6	3	12 do.....	90 00
Naphan and Plainfield.....	J. D. Naphan.....	13	1	12 do.....	49 12
Napier and Strathroy.....	J. Shanahan.....	11	6	9 do (to Dec. 31, '88)	260 25
do do.....	J. Wrinkle.....	11	6	3 do from do.....	87 50
Nepigon and Railway Station.....	N. Flanagan.....	½	6	3 do (from Jan. 1, '89)	19 25
Neustadt and Railway Station.....	L. P. Siegmann.....	1 r.t.	12	12 do.....	100 00
Newboro and Smith's Falls.....	J. W. Preston.....	24	6	12 do.....	573 00
Newbury and Wardsville.....	J. Wilson.....	3	12	12 do.....	149 00
Newcastle and Orono.....	J. M. Jackson.....	5	6	12 do.....	155 00
New Dublin and Railway Station.....	J. A. Brown.....	3½	3	3 do (to June 30, '88)	16 25
do do.....	N. E. Brown.....	3½	3	9 do from do.....	48 75
New Edinburgh, Ottawa and Street Letter Boxes.....	J. W. Proctor.....	¾	18	12 do.....	160 00
New Flos and Phelpsston.....	D. Gallagher.....	7	3	2 do (from Feb. 1, '89)	23 33
Newholm and Port Sydney.....	D. Ferguson.....	6	1	12 do.....	35 00
New Lowell and Railway Station.....	R. Paton.....	1 r.t.	12	12 do.....	24 00
Newmarket and Pine Orchard.....	C. Ganton.....	4½	3	12 do.....	100 00
Newmarket and Railway Station.....	J. Bogart.....	1 r.t.	24	12 do.....	119 00
Newmarket and Sutton West.....	C. Newburn.....	22	6	12 do.....	892 00
New Sarum and Railway Station.....	G. W. Cloes.....	5	12	12 do.....	156 00
Niagara and Niagara Falls.....	W. J. Sheppard.....	15	6	12 do.....	525 00
Niagara and Railway Station.....	R. Warren.....	¼	12	12 do.....	60 00
do do.....	do.....	¼	12	Season 1888.....	20 00
Niagara and St. Catharines.....	J. Bishop.....	12	6	12 months.....	450 00

## DETAIL of all payments for Mail Transportation in Ontario, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Niagara Falls and Railway Station	W. W. Woodruff	1	12	12 months	52 00
do do	do	4	6	Season 1888	8 67
Niagara Falls and Suspension Bridge	do	1	3	12 months	84 00
U. S.	J. Steele	12	3	3 do (to June 30, '88.)	57 50
Nipissing and Powassan Station	H. A. Steele	12	3	9 do from do	172 50
do do	M. H. Ritchie	1	6 & 12	12 do	124 96
Nipissing Junction and Ry. Stations	H. Kumpf	16	6	12 do	400 00
Nithburg and Stratford	J. Bannister	300 yd	12	12 do	56 26
Nixon and Railway Station	J. Lemon	100 yd	12	12 do	25 00
Nober and Railway Station	S. Ottley	4	3	12 do	68 00
Normandale and Vittoria	S. J. B. Whaley	4	6	12 do	200 00
North Augusta and Ry. Station	W. McDonald	3	3 & 12	12 do	110 00
North Bay and Railway Stations	D. McKinnon	2	3	12 do	80 00
North Bruce and Queen Hill	G. B. Shreve	1	12	12 do	40 00
North Buxton and Railway Station	J. Vaughan	14	2	12 do	130 00
Northcote and Renfrew	A. Haggins	8	6	12 do	198 00
North Gower and Railway Station	J. J. Barnes	21	3	12 do	340 00
North Keppel and Owen Sound	W. N. Dunbar	4	3	12 do	60 00
North Valley and Osnabruk Centre	W. C. Strader	5	1	12 do	26 00
North Williamsburg and Strader's Hill	T. Hewson	1	6	10 do (from June 1, '88)	81 25
Norval and Railway Station	J. Lawrason	1	24	12 do	85 00
Norwich and Railway Station	E. Gould	6	12	3 do (to June 30, '88)	50 00
Norwood and Midland Ry. Station	do	1	20	12 do	156 30
Norwood and O. and Q. Ry. Station	H. Gerow	15	1	12 do	80 00
Norwood and Round Lake	E. Gould	16 & 6	6	9 do (from July 1, '88)	375 00
Norwood, Warkworth and Midland Railway Station	M. Cahill	1	6	12 do	80 00
Nosbonsing and Railway Station	M. Gillies	6	2	12 do	60 00
Nottawa and Pretty River Valley	G. Gemmell	3	12	12 do	88 00
Nottawa and Railway Station	R. W. Nicholls	3	6 & 12	12 do	45 24
Novar and Railway Station	J. Large	5	2	12 do	52 00
Novar and Swindon	J. Aspden	13	6 & 12	12 do	420 00
Oakland and Windham Centre, &c.	C. W. Murphy	2	2	12 do	50 00
Oak Leaf and Sperton	E. Hillmer	4	6	12 do	225 00
Oakville and Trafalgar	W. H. McLauchlin	1	12	12 do	93 60
Oakwood and Railway Station	A. A. Babcock	5	12	12 do	250 00
Odessa and Railway Station	D. Shea	6	6	12 do	116 00
Odessa and Violet	J. Porter	3	3	12 do	100 00
Ohsweken and Tuscarora	J. Ferguson	1	12	7 do (from Sept. 1, '88)	54 30
Oil City and Railway Station	J. Gallaway	6	2	12 do	100 00
Oil City and Wheeler	J. W. Cates	2	12	5 do (to Aug. 31, '88)	112 50
Oil City, Oil Springs and Ry. Station	do	200 y's	12	7 do from do	54 30
Oil Springs and Railway Station	M. McCarthy	4	3	12 do	140 00
Oldcastle and Railway Station	J. Hill	2	6	12 do	60 00
Olinda and Ruthven	J. G. McLeod	6	2	12 do	100 00
Oliver and Thorndale	W. McCue	5	6	12 do	240 00
Oliver's Ferry and Railway Station	J. Tremain	4	2	12 do	60 00
Olivet and Rothsay	R. Grandy	1	24	12 do	250 00
Omamee and Railway Station	A. Wright	20 yds	3	12 do	12 00
Ompah Station and Railway Station	J. A. Munny	1	6	12 do	125 00
Oneida and Railway Station	L. Buckwell	4	6	12 do	109 20
Onondago and Railway Station	R. Mann	4	42	12 do	229 31
Orangeville and Railway Station	W. J. Glover	5	2	12 do	88 00
Orangeville and Vanatter	H. Nelson	5	2	12 do	75 00
Oranmore and Spence	W. Jackson	1	24	12 do (less fine)	97 77
Orillia and Grand Trunk Ry. Station	A. Fraser	1	24	12 do (less fines)	123 30
Orillia and Northern Ry. Station	A. Dunn	16	6	12 do	330 00
Orillia and Sebright	H. Dupuis	12	6	12 do	280 00
Orleans and Ottawa	G. Jarman	1	12	12 do	50 00
Ormsby and Railway Station	W. McKilican	5	2	9 do (to Dec. 31, '88)	60 00
Ormsby and Thanet	M. Murphy	5	2	3 do from do	17 50
do do	A. Douglas	1	6	12 do	55 00
Oro Station and Railway Station					



## DETAIL of all payments for Mail Transportation in Ontario, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Orton and Railway Station.....	W. Mooney.....	1	12	12 months.....	50 00
Orwell and Railway Station.....	F. Sutherland.....	12	9	do (to Dec. 31, '88).....	90 00
do do.....	W. J. Gegan.....	12	3	do from do.....	29 25
Osceola and Stafford.....	D. Childerhose.....	8	3	12 do.....	140 00
Osgoode Station and Railway Station.....	J. Buckels.....	40 yds	6	12 do.....	15 00
Osgoode Station and Russell.....	P. Levia.....	21½	6	12 do.....	480 00
Osgoode Station and West Winchester.....	A. Campbell.....	22	6	12 do.....	625 00
Oshawa and Raglan.....	W. H. Thomas.....	9	6	12 do.....	360 00
Oshawa and Street Letter Boxes.....	do.....	9	12	9 do (from July 1, '88).....	48 75
Ossian and Sarnia.....	F. B. Rudd.....	15½	3	12 do.....	344 00
Oso Station and Zealand.....	W. Armstrong.....	3½	2	12 do.....	45 00
Ottawa and Post Office Department.....	E. Batterton.....	2	18	12 do.....	551 20
Ottawa and C.A. and C.P. Railway Stations.....	B. D'Arpentigny.....	1	18	12 do.....	756 60
Ottawa and Railway Station.....	P. McKenna.....	1	As req	12 do.....	3,100 32
Ottawa and Exhibition Grounds.....	W. Goodwin.....			Special trips.....	13 50
Ottawa and Richmond.....	H. Rielly.....	20	6	12 months.....	725 00
Otterville and Railway Station.....	P. Mitchell.....	½	12	12 do.....	96 28
Oungah and Wallaceburg.....	D. McLean.....	11	6	12 do.....	300 00
Overton and Robin.....	W. M. Paul.....	3½	2	12 do.....	60 00
Owen Sound and Railway Station.....	W. M. Matthew.....	1	24	6 do (to Sept. 30, '88).....	125 00
do do.....	W. Bridgett.....	1	24	6 do from do.....	100 00
Owen Sound and Street Letter Boxes.....	E. Miller.....		18	12 do.....	235 00
Owen Sound and Tara.....	J. Morden.....	20½	6	12 do.....	548 00
Oxenden and Wiarton.....	J. Crandon.....	3	6	12 do.....	120 00
Oxford Station and Railway Station.....	G. L. Cook.....	½	3	12 do.....	32 00
Paisley and Railway Station.....	S. Cruickshank.....	½	24	12 do.....	131 40
Paisley and Vesta.....	do.....	16½	6	12 do.....	390 00
Pakenham and Panmure.....	G. McClinton.....	20	6	12 do.....	279 00
Pakenham and Railway Station.....	R. Clark.....	½	18	12 do.....	171 60
Palmer Rapids and Rockingham.....	W. Mahon.....	8	1	12 do.....	50 00
Palmer Rapids and Wingle.....	J. Wingle.....	6	1	12 do.....	45 00
Palmerston and Railway Station.....	T. W. Johnston.....	½	36	12 do.....	170 00
Paris and Railway Station.....	C. L. Newell.....	1	30	9 do (to Dec. 31, '88).....	253 53
do do.....	H. Oliver.....	1	36	3 do from do.....	92 40
Paris and Street Letter Boxes.....	G. Stanton (top'y).....		12	9 do (from July 1, '88).....	72 00
Parkdale and Railway Station.....	W. Gray.....	½	24	12 do.....	90 00
Parkdale—G. T. Ry. and C. P. Ry.....	do.....	1½	6	12 do.....	50 00
Parkersville and Mail Catching Post.....	T. H. Osborne.....	½	6	1 do (from Mar. 1, '89).....	2 08
Park Head and Railway Station.....	F. Pattison.....	½	6 & 12	12 do.....	54 58
Parkhill and Railway Station.....	G. Mathers.....	½	12	6 do (to Sept. 30, '88).....	42 50
do do.....	G. Simpson.....	½	12	6 do from do.....	42 50
Parkhill and Strathroy.....	W. Fletcher.....	18	3	12 do.....	350 00
Parry Sound and Rosseau.....	T. W. Quinn.....	25	6	12 do.....	490 00
Parry Sound and Shebashekong.....	W. R. Hamilton.....	14½	1	12 do.....	80 00
Patillo and Railway Station.....	D. Coutts.....	½	6	12 do.....	25 00
Pearceley and Sundridge.....	T. G. Pearce.....	8	1	12 do.....	65 00
Pelee Island and Pelee Island East.....	L. S. Brown.....	11	1	12 do.....	100 00
Pembroke and Railway Station.....	M. Belaire.....	½	24	12 do (less fine).....	398 00
Pendleton and Railway Station.....	H. Roy.....	17	6	12 do.....	500 00
Penetanguishene and Ry. Station.....	C. Charlebois.....	½	12	12 do.....	59 00
Peninsula Harbor and Ry. Station.....	H. Wilson.....	1½	6	6 do (to Sept. 30, '88).....	60 00
do do.....	do.....	1½	6	6 do from do.....	37 50
Penville and Tottenham.....	S. Rogers.....	19 r. t.	6	12 do.....	199 00
Perch Station and Railway Station.....	T. Irwin.....	½	2	12 do.....	50 00
Perm and Rosemont.....	J. J. Morrow.....	7½	6	12 do.....	285 00
Perth and Playfair.....	W. G. Cameron.....	14	6	3 do (to June 30, '88).....	90 15
do do.....	G. C. Mills.....	14	6	9 do from do.....	300 00
Perth and Railway Station.....	J. Allan.....	½	29	12 do.....	271 80
Perth and Stanleyville.....	P. McFarlane.....	9½	4	12 do.....	185 00
Perth and Tennyson.....	W. Devlin.....	10	1	12 do.....	84 00
Perth and Westport.....	A. P. Palmer.....	23	2	12 do.....	175 00
Petawawa and Railway Station.....	S. Devine.....	1½	3	12 do.....	80 00
Peterboro' and Railway Station.....	J. Buller.....	½ & ¼	35 & 60	12 do (less fine).....	586 62

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Peterboro' and Street Letter Boxes.	H. C. Rogers	12	9 months (from July 1, '88)		150 00
Peterboro' and Warsaw.	P. Kennedy	16	6 do (to Sept. 30, '88)		138 00
do do	D. McIntosh.	16	6 do from do		138 00
Petersville and Roseville	F. Krael	12	6 & 3 12 do		398 00
Petersburg and St. Agatha.	J. Raiser	2	6 12 do		125 00
Petrolea and Railway Station.	P. Barclay	1 1/2	24 12 do		100 00
Petrolea and Willson Croft.	J. L. Wilson.	4 1/2	2 12 do		75 00
Phelpston and Railway Station.	D. Gallagher	1 1/2	6 12 do		46 80
Phelpston and Vigo.	do	5 1/2	3 12 do		100 00
Picton and Ry. Station.	McCaw & Williams	3 1/2	18 12 do		204 00
Picton and Solmesville.	H. Goodwin.	17 1/2	6 12 do		349 00
Picton and Street Letter Boxes.	T. Shannon (to pay).	12	9 do (from July 1, '88).		58 50
Picton and West Lake.	J. Hicks.	8	2 & 3 12 do		94 48
Pike Creek and Tecumseh.	G. Bedell	2	3 12 do		60 00
Pinedale and Wick.	C. Ferguson.	4	2 12 do		65 00
Pine Grove and Woodbridge.	F. Earls.	1 1/2	6 12 do		42 00
Pinkerton and Ry. Station.	J. Pinkerton.	2	6 6 do (to Sept. 30, '88).		60 00
do do	J. Connor.	2	6 6 do from do		47 50
Point Alexander and Ry. Station.	J. Mireau.	6	3 12 do		100 00
Pointe aux Pins and Sault Ste. Marie.	H. Wood.	9	1 12 do		55 00
Point Edward and Sarnia.	F. Symington.	2	6 12 do		156 00
Pomona and Priceville.	D. Black.	5	2 12 do		70 00
Pond Mills and Ry. Station.	J. Gilmore.	3	3 12 do		75 00
Pontypool and Ry. Station.	T. H. Williamson	1 1/2	12 9 do (to Dec. 31, '88).		60 00
do do	T. Stanton.	1 1/2	12 3 do from do		17 50
Poplar Grove and Rydal Bank.	W. R. Smyth.	13	1 12 do		104 00
Portage du Fort and Ross.	D. McLaren.	3	3 12 do		70 00
Port Arthur and Ry. Station.	F. S. Wiley.	3	12 12 do		250 00
Port Arthur and Silver Mountain.	G. Levins.	40	1 11 do (to Feb. 28, '89).		320 83
Port Burwell and Port Rowan.	H. A. Aker.	18	6 12 do		475 00
Port Carling and Falkenburg Station.	C. McCulley.	15	3 4 do (from Dec. 1, '88).		96 00
Port Cockburn and Trout Lake.	H. Fraser.	4	2 Season 1888-89.		25 00
Port Colborne and Ry. Station.	W. Lewis.	1 1/2	24 & 12 12 months.		148 96
Port Coldwell and Ry. Station.	R. Jackson.	50 ft.	12 3 do (from Jan. 1, '89).		2 50
Port Credit and Ry. Station.	J. Hamilton.	2 1/2	6 12 do		46 80
Port Dalhousie and Ry. Station.	F. W. Smith.	1 1/2	24 & 30 12 do		194 38
Port Dover and Ry. Station.	B. Evans.	1 1/2 & 3	6 & 12 12 do		101 00
Port Dover and Victor.	W. R. Reid.	4 1/2	3 12 do		75 00
Port Elgin and Ry. Station.	J. Bowes.	1 1/2	18 & 24 12 do		109 58
Port Elgin and Tara.	T. Johnston.	16	6 12 do		372 00
Port Finlay and Richard's Landing.	M. McLennan.	2	2 Season 1888.		40 50
Port Franks and Thedford.	A. Kimmerley.	6	3 3 months (to June 30, '88).		31 25
do do	G. Kipp.	6	3 9 do from do		86 25
Port Hope and Ry. Station.	C. R. Adamson.	3 1/2	36 12 do		200 00
Port Hope and Street Letter Boxes.	J. Caldwell.	4 1/2	12 12 do		200 00
Port Lambton and Ry. Station.	W. H. McDonald.	1 1/2	12 12 do		50 00
Port Maitland and Stromness.	H. Siddall.	2	3 12 do		70 00
Port Perry and Ry. Station.	W. M. Jamieson.	1 1/2	18 12 do		74 00
Port Perry and Seugog.	J. Burke.	7	2 12 do		100 00
Port Perry and Shirley.	T. Espin.	5	2 12 do		80 00
Port Perry and Uxbridge.	J. Twohy.	12	6 12 do		380 00
Port Perry and Whitby.	L. Sebert.	1	Special trips.		10 00
Port Robinson and Ry. Station.	B. Buckner.	1 1/2	24 9 months (to Dec. 31, '88).		112 50
do do	J. McCoppen.	1 1/2	24 3 do from do		35 00
Port Rowan and Simcoe.	L. W. Fick.	21	6 12 do		390 00
Port Ryerse and Simcoe.	P. McCoy.	6	6 12 do (less fine).		138 00
Port Severn and Waubashene.	J. Hanly.	5	3 12 do		156 00
Port Stanley and Ry. Station.	M. Payne.	1 1/2	24 12 do		160 00
Port Sydney and Uttersson.	H. G. Ladell.	2 1/2	6 12 do		156 48
Powassan Station and Ry. Station.	J. G. Duncan.	1 1/2	6 12 do		46 80
Prescott and Ogdensburg, U.S.	C. Plumb.	2	18 12 do		578 24
Prescott and Ry. Station.	E. Leslie.	1 1/2	18 12 do		140 40

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Prescott and Street Letter Boxes...	J. Dowsley (to pay)		18	9 months (from July 1, '88)	108 00
Prescott and Throoptown.....	W. J. Reynolds.	16	2	3 do (to June 30, '88)..	33 25
do do .....	P. Bulger.....	16	2	9 do from do .....	74 60
Preston and Strasburg .....	F. C. Cornell.....	8	6	12 do .....	330 00
Preston and Waterloo.....	C. Kress.....	10	12	12 do .....	600 00
Primrose and Whitfield .....	P. D. Henry.....	4½	6	12 do .....	156 00
Prince Albert and Railway Station.	C. Fallis.....	12	12	12 do .....	80 00
Proton Station and Railway Station.	F. Freeman.....	6	12	12 do .....	50 00
Proton Station and Wareham.....	J. M. Burk.....	7	3	12 do .....	121 25
Purbrook and Uffington.....	J. Crockford.....	6	2	12 do .....	50 00
Purple Grove and Ripley.....	J. N. Logan.....	5	1	12 do .....	45 00
Puslinch and Railway Station.....	H. Leslie.....	½	12	12 do .....	35 00
Quinn and Tilbury Centre.....	W. L. Clark.....	5	3	9 do (to Dec. 31, '88)..	84 36
do do .....	T. Burke.....	5	3	3 do from do .....	37 50
Ratho and Railway Station.....	G. Steedsman.....	½	6	12 do .....	52 00
Ravenshoe and Baldwin's Crossing.	W. D. Smith.....			Special trips.....	14 00
Ravenshoe and Railway Station.....	R. Hancock.....	4	6	3 do (to June 30, '88)..	37 50
do do .....	W. D. Smith.....	4	6	9 do from do .....	112 50
Reaboro and Railway Station.....	G. Laing.....	½	12	12 do .....	70 00
Read and Shannonville.....	P. McKenny.....	10	6	12 do .....	225 00
Redickville and Singhampton.....	J. Richards.....	10	3	6 do (from Oct 1, '88)..	97 50
Red Rock and Railway Station.....	N. Flanagan.....	½	6	9 do (to Dec. 31, '88)..	58 75
Renfrew and C. P. Ry. Station.....	J. Smith.....	4	24	3 do (to June 30, '88)..	56 16
do do .....	D. Brownlee.....	4	24	9 do from do .....	234 00
Renfrew and K. & P. Ry. Station.....	J. Smith.....	4	12	6 do (to Sept. 30, '88)..	34 32
do do .....	J. Rouselle.....	4	12	6 do from do .....	31 30
Renton and Railway Station.....	W. Renton.....	½	12	12 do .....	78 00
Renton and Tyrrell.....	W. Blanchard.....	13½	3	12 do .....	52 00
Richard's Landing and Sea Gull.....	W. Young.....	6	1	12 do .....	55 00
Richmond Hill and Ry. Station.....	W. R. Proctor.....	3½	12	12 do .....	237 12
Richmond Hill and Toronto.....	J. Palmer.....	16	6	12 do .....	1 00
Richmond West and Stapledon.....	T. H. Stapledon.....	3½	3	7 do (from Sept 1, '88)	23 33
Richwood and Railway Station.....	W. Taylor.....	½	6	12 do .....	78 00
Ridgemount and Stevensville.....	J. Dennahowe.....	3½	2	3 do (to June 30, '88)..	19 50
Ridgetown and Railway Station.....	L. S. Hancock.....	1	18	12 do .....	149 76
Ridgeway and Railway Station.....	P. W. Anthony.....	½	12	12 do .....	74 88
Ridgeway and Stone Quarry.....	A. House.....	3½	2	3 do (to June 30, '88)..	15 00
Ridgeway and Welland.....	L. House.....	19	3	12 do .....	248 00
Ripley and Railway Station.....	D. McInnes.....	½	12	12 do .....	84 00
Ripley and Verdun.....	S. Irwin.....	5½	2	6 do (to Sept. 30, '88)..	25 00
Riverside and Toronto.....	H. Parry.....	1½	6	12 do .....	125 00
Riverview and Railway Station.....	J. H. Peters.....	3½	2	3 do (to June 30, '88)..	12 00
do do .....	H. Jordan.....	3½	2	9 do from do .....	36 00
Robin and West Plain .....	A. Sedore.....	3	2	12 do .....	20 00
Rob Roy and Singhampton.....	R. Shields.....	6	2	12 do .....	84 00
Rockford and Railway Station.....	R. Russell.....	4	6	12 do .....	150 00
Rockland and Railway Station.....	A. Campbell.....	2½	6	12 do .....	178 00
Rockliffe and Railway Station.....	W. H. McIntyre.....	300 yds	12	12 do .....	32 00
Rockside and Salmonville.....	J. Harber.....	3½	2	12 do .....	69 00
Rodney and Railway Station.....	A. Humphrey.....	30 rds.	18	12 do .....	93 60
Rosemont and Shelburne.....	G. Barber.....	12	6	12 do .....	520 00
Rosseau and Rosseau Falls.....	P. Mutchener backer.....	4	3	Part of seasons 1887-88 & 1888-89.....	22 00
Rosseau and Shannon Hall.....	W. Fletcher.....	12½	1	12 months.....	78 00
Rosseau and Utterson.....	J. Cook.....	22	6	Part of seasons 1887-88 & 1888-89.....	180 83
Rossport and Railway Station.....	S. Cornell.....	50 yds	12	6 do (to Sept 30, '88)..	7 50
do do .....	P. A. Leitch.....	50 yds	12	6 do from do .....	7 50
Rouge Hill and Toronto.....	R. H. Crew.....	17	6	12 do .....	399 00
Round Plains and Waterford.....	B. H. Rammage.....	4	3	12 do .....	95 00
Rowan Mills & Walsingham Centre.	S. Bressan.....	7	3	12 do .....	114 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Ruscom Station and Ry. Station...	J. D. Mathers	50 yds	12	12 months	10 00
Russell and South Indian Railway Station.	R. Young	10	6	12 do	225 00
St. Catharines and Street Letter Boxes.	P. Shiels		As req	6 do (to Dec. 31, '88)	156 50
do do	J. J. Richardson		do	3 do from do	78 25
St. Catharines and Welland Station	M. Ireson	1	24	12 do	230 80
St. Eugène and Vankleek Hill.	X. Proulx	10	6	12 do	290 00
St. George and Railway Station.	M. Brockbank	1	24	12 do	160 94
St. Joachim, River Ruscom, and Railway Station.	J. Bacon	3	6	12 do	135 00
St. Lawrence and Wolfe Island.	S. D. Woodman.	12	1	12 do	75 00
St. Ola and Railway Station.	P. P. Clark.	2	6	12 do	50 00
St. Patrick and Railway Station.	B. Payement	$\frac{1}{2}$	3	6 do (to Sept. 30, '88)	24 00
St. Patrick and Changing Post.	J. Langdon	$\frac{3}{4}$	3	6 do from do	19 00
St. Paul's Station and Ry. Station.	A. Thom.	$\frac{1}{8}$	12	12 do	62 40
St. Thomas and Railway Stations.	A. Boughner	1	72	12 do (less fines)	539 88
St. Thomas and Sparta.	W. Gregory	11	6	12 do	185 00
St. Thomas and Street Letter Boxes	F. E. Ermatin-				
	ger (to pay)...		12	9 do (fr'm July 1, '88)	127 67
St. Thomas and Talbotville Royal.	J. Wait.	$\frac{3}{4}$	6	12 do	120 00
Sadowa and Sebright.	J. H. Vanlack.	$\frac{5}{8}$	1	12 do	31 20
Sand Point and Railway Station.	E. De Renzy	$\frac{1}{8}$	24	12 do	156 00
Sandwich and Windsor.	A. G. Kennedy.	2	6	9 do (to Dec. 31, '88)	130 50
do do	S. Page.	2	6	3 do from do	45 00
Sarnia and Port Huron, U.S.	J. P. Dawson.	2	12	12 do	150 00
Sarnia and Railway Station.	J. J. Ross.	100 yd	12	12 do	93 60
Sarnia and Street Letter Boxes.	G. Burton		12	6 do (to Dec. 31, '88)	62 50
do do	F. A. Dawson.		12	3 do from do	28 50
Sauble Falls and Wiarton.	H. Crandon.	12	2	12 do	119 00
Saugeen and Railway Station.	T. Lee	$\frac{1}{2}$	18 & 24	12 do	137 64
Sault Ste. Marie and Ry. Station.	M. C. Pim.	$\frac{1}{2}$	6	4 do 16 days (from Nov. 15, '88).	35 10
Sault Ste. Marie and Sault Marie, U.S.	R. T. Pim.	$\frac{1}{2}$	6	Season 1888.	131 42
do do	W. Turner.	$\frac{1}{2}$	12	Part of seasons 1887-88 & 1888-89.	165 91
Sault Ste. Marie and Thessalon.	W. H. Plummer.	60	1	Part of season 1887-88	72 00
Saurin and Railway Station.	D. A. Cooper.	$\frac{1}{4}$	12	12 months.	20 00
Schreiber and Railway Station.	D. R. Bruce.	100 yd	6	12 do	25 00
Scotch Block and Railway Station.	J. McKenzie.	1	6	12 do	78 00
Scotia and Catching Post.	J. Bucke.	$\frac{1}{2}$	6	12 do	62 40
Scouten and Railway Station.	D. A. Spencer.	$\frac{1}{2}$	12	12 do	30 00
Seaforth and Railway Station.	S. Dickson.	$\frac{1}{2}$	24	12 do	187 20
Seaforth, Varna and Ry. Station.	D. Hay.	$\frac{1}{2}$	6 & 12	3 do (to Sept. 30, '88)	68 75
Seagrave and Railway Station.	E. Wanes.	$\frac{1}{2}$	6	12 do	69 88
Sebringville and Railway Station.	I. R. Paton	$\frac{1}{2}$	12	12 do	90 00
Seely and Wiman.	M. Trueman.	6	1	6 do (to Sept. 30, '88)	14 00
do do	J. Fowler.	6	1	1 do (to Oct. 31, '88)	2 33
Serpent River and Railway Station.	G. McDonald	$\frac{1}{4}$	6	2 do 16 days (to Jan. 31, '89)	20 10
Seyn Bridge and Railway Station.	J. H. Jackson.	$\frac{1}{2}$	24	12 do	120 00
Shamrock and Sheedy.	M. Sheedy.	7	2	12 do	102 67
Shamrock and Whelan.	S. Whelan.	7	2	12 do	50 00
Shanty Bay and Railway Station.	J. Graham.	$\frac{1}{4}$	12	12 do	60 00
Sharbot Lake and Railway Station.	M. Avery.	$\frac{1}{4}$	14	12 do and extra trips	148 40
Shelburne and Railway Station.	E. Berwick.	$\frac{1}{4}$	24	12 do	124 80
Sherkston and Railway Station.	B. F. Sherk.	$\frac{1}{2}$	6	12 do	50 00
Shetland and Sutherland's Corners.	J. W. Jackson.	5	3	12 do	90 00
Shrubmount and Vivian.	F. Stevens.	$\frac{1}{2}$	3	12 do	65 00
Siloam and Uxbridge.	J. Smith.	16 r. t.	3	12 do	146 00
Simcoe and Railway Stations.	H. Hall.	1 & $\frac{1}{2}$	12	3 do (to June 30, '88)	55 34
do do	H. W. Pursel.	1 & $\frac{1}{2}$	12	9 do from do	165 66
Skye and Railway Station.	H. McLean.	8	6	12 do	245 00
Smith's Falls and Railway Station.	H. Carley.	$\frac{1}{2}$	24	12 do	175 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Smith's Falls and Railway Station..	J. M. McLaren.	$\frac{1}{2}$	12	10 months 18 days (from May 14, '88)	88 19
Smithdale and Railway Station....	C. Smith .....	$\frac{1}{4}$	12	12 do .....	30 00
Smithville and Wellandport.....	J. Wilson.....	9	6	12 do .....	269 00
Snake River and Railway Station..	G. Douglas.....	34	3	12 do .....	96 24
Snyder and Railway Station.....	T. Snyder.....	$\frac{1}{2}$	6	12 do .....	125 00
Solway and Walkerton.....	D. McIntyre.....	64	3	9 do (to Dec. 31, '88)..	111 75
do do .....	J. McCallum .....	64	3	3 do from do .....	36 00
Sombra and Marine City, U.S.....	P. Cattanaach .....	2	3	12 do .....	36 00
Sombra and Railway Station.....	do .....	$\frac{1}{2}$	12	12 do .....	50 00
Sombra and Thornyhurst.....	H. G. Waybrant .....	6	2	12 do .....	60 00
Sombra and Wilkesport.....	N. Cornwall.....	8	6	12 do .....	185 00
Sonya and Railway Station.....	A. Black.....	$\frac{3}{8}$	6	12 do .....	40 00
South Casselman and Railway Station .....	J. St. Denis .....	1	6	12 do .....	25 00
South Indian and Railway Station..	J. K. Meredith..	$\frac{1}{2}$	12	12 do .....	50 00
South March and Railway Station..	P. Orchard.....	15 $\frac{1}{2}$	6	12 do .....	400 00
South River and Railway Station..	W. Holditch.....	$\frac{1}{2}$	6 & 12	12 do .....	87 00
Spanish River and Spanish River Station .....	P. J. Loughrin..	6	1	12 do .....	99 44
Spencerville and Railway Station..	C. Spencer.....	14	6	3 do (to March 31, '88)	18 75
do do .....	W. H. Spencer.....	14	6	9 do (to Dec. 31, '88)..	56 25
do do .....	A. Carmichael..	14	6	3 do from do .....	18 75
Springfield and Railway Station....	J. Dennis.....	$\frac{1}{2}$	12	12 do .....	88 00
Springford and Railway Station.....	T. McMeahan .....	3	6 & 12	12 do .....	200 00
Springville and Railway Station....	M. Halloran.....	3	6	9 do (to Dec. 31, '88)..	97 50
do do .....	W. Bidgood.....	3	6	3 do from do .....	34 50
Spry and Stokes Bay.....	G. Myles.....	6	3	12 do .....	130 00
Stanleydale and Yearleys.....	J. Boulton.....	24 $\frac{1}{2}$	3	12 do .....	39 00
Stayner and Railway Station.....	W. B. Sanders..	$\frac{1}{2}$	24	9 do (to Dec. 31, '88, less fine).....	71 50
do do .....	E. B. Sanders..	$\frac{1}{2}$	24	3 do from do .....	24 00
Stayner and Sunnidale .....	J. Sherrick.....	7 $\frac{1}{4}$	3	12 do .....	159 96
Stayner and Vanlack.....	J. D. Laidlaw .....	13	1	12 do .....	74 00
Stevensville and Railway Station..	C. Tytherleigh .....	$\frac{1}{2}$	12	12 do .....	80 00
Stewart Station and Railway Station	R. Jackson.....	50 ft.	12	1 do (to Dec. 31, '88)..	0 83
Stirling and Railway Station.....	W. Gould.....	$\frac{1}{2}$	12	12 do (less fine).....	57 40
Stittsville and Railway Station.....	S. Mann.....	120 y's	6	12 do .....	21 84
Stokes Bay and Tobermory.....	M. Belrose.....	26	1	12 do .....	224 00
Stony Creek and Woodburn .....	J. Cowan.....	15 r. t.	3	12 do .....	116 48
Stony Lake and Warsaw.....	H. Bell.....	12	1	12 do .....	75 00
Stouffville and Railway Station....	J. E. Addison .....	$\frac{1}{2}$	30	6 do (to Sept. 30, '88).	50 00
do do .....	M. Yake.....	$\frac{1}{2}$	30	6 do from do .....	39 00
Strathallan and Woodstock.....	R. Langdon.....	14	6	12 do .....	385 00
Stratford and Railway Station.....	A. Hirst.....	$\frac{1}{2}$	48	12 do .....	360 18
Stratford and Street Letter Boxes..	T. Stoney.....	.....	19	12 do .....	391 20
Strathroy and Street Letter Boxes..	H. McColl.....	.....	18	9 do (from July 1, '88)	37 50
Streetsville and Railway Station.....	J. Johnson, sr..	$\frac{1}{2}$	30	12 do .....	125 00
Stromness and Railway Station.....	G. Latimer.....	2	12	6 do (to Sept. 30, '88).	62 60
do do .....	H. Siddall.....	2	12	6 do from do .....	60 00
Stroud and Railway Station.....	R. G. McCraw.....	1	12	12 do .....	120 00
Sturgeon Bay and Railway Station.	J. Playfair.....	$\frac{1}{2}$	12	12 do .....	80 00
Sturgeon Falls and Railway Station	J. Stillar.....	$\frac{1}{2}$	12	12 do .....	75 00
Sudbury and Railway Station.....	S. Fournier.....	.....	12	12 do .....	120 90
Sunderland and Railway Station.....	N. Steffins.....	$\frac{1}{2}$	24	12 do .....	59 48
Sundridge and Railway Station.....	J. Carter.....	$\frac{1}{2}$	6 & 12	12 do .....	52 20
Sundridge and Vavasour.....	D. L. Valentine..	10	1	12 do .....	64 00
Sutton West and Railway Station..	W. D. Townley..	$\frac{1}{2}$	12	12 do .....	100 00
Sutton West and Vachell.....	do .....	14 r. t.	2	12 do .....	120 00
Sweaburg and Woodstock.....	H. McCully.....	6	3	12 do .....	95 00
Sydenham and Wilmur.....	W. D. Waters....	7	2	12 do .....	100 00
Sylvan and Widder.....	W. Randall.....	3	6	12 do .....	140 00
Talbotville Royal and Tempo.....	J. Wait.....	3	2	12 do .....	50 00
Tara and Railway Station.....	J. Hamilton.....	$\frac{1}{2}$	12	12 do .....	118 92

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Tavistock and Railway Station....	G. Matheson....	$\frac{1}{2}$	12	12 months.....	50 00
Teeswater and Railway Station....	W. Zinger.....	$\frac{1}{2}$	12	12 do .....	104 17
The Brook and South Indian Railway Station.....	T. Lefebvre.....	10	6	7 do 15 days (to Nov. 15, 1888.....	118 33
do do .....	A. Lefebvre .....	10	6	4 do 15 days (from Nov. 16, 1888)..	75 00
Thedford and Railway Station....	J. G. Brown....	300yd.	6	12 do .....	50 00
The Grove and Railway Station....	T. A. Robinson..	$\frac{1}{4}$	12	12 do .....	50 00
Thessalon and Railway Station....	J. Rowan.....	3	6	4 do 15 days (from Nov. 16, 1888)..	70 20
Thessalon and Wharnccliffe.....	W. Taggart.....	17	1	10 do (from June 1, '88)	75 00
Thompsonville and Railway Station	J. T. Schmieten-	$\frac{1}{2}$	12	12 do .....	110 00
Thornhill and Railway Station....	W. T. Brown....	3	6	12 do .....	187 20
Thornhill and Toronto.....	J. Thompson....	12	6	12 do .....	250 00
Thornton and Railway Station....	R. Power.....	$\frac{1}{2}$	12	12 do .....	59 48
Thorold and Railway Station.....	J. Dale.....	$\frac{1}{2}$	24	12 do .....	187 20
Thwaites and Railway Station....	D. W. Thwaites..	3	1	12 do .....	20 00
Tilbury Centre and Railway Station	M. Hudon.....	$\frac{1}{2}$	12	12 do .....	96 00
Tilsonburg and Railway Station....	W. Parker.....	2	12	12 do .....	118 56
do do .....	Becker & Pierce..	1	12	9 do (to Dec. 31, '88)..	93 75
do do .....	W. Parker.....	1	12	3 do from do ..	34 65
Tioga and Railway Station.....	G. Fitzsimmons..	$\frac{1}{2}$	12	12 do .....	45 00
Toronto and Railway Station.....	J. Hendry.....	1	24, 30 & 48	6 do (to Sept. 30, '88)..	1,004 10
do do .....	F. Middleton....	1	24 & 30	6 do from do ..	429 77
do do .....	J. R. Hendry....	1	26 & 48	6 do from do (less fine).....	469 38
do do .....	A. J. Pratt.....			Special trip.....	0 50
Toronto and Street Letter Boxes..	J. Hendry.....		As req.	12 months.....	3,400 00
do do .....	R. Bond.....			Special service ..	16 00
Tottenham and Railway Station....	M. J. Casserly..	$\frac{1}{2}$	12	12 months.....	69 00
Townsend Centre and Waterford..	D. Kitchen.....	3	3	12 do .....	75 00
Toyes Hill and Winchester Springs	J. B. McQuigg...	3	3	12 do .....	60 00
Trenton and Railway Station.....	Cunningham Bros	$\frac{1}{2}$	30	12 do .....	312 00
Trenton and Wooler .....	H. Sharp.....	9	6	12 do .....	175 00
Tuftsville and North Hastings Junction.	S. Tufts.....	$\frac{1}{2}$	3	12 do .....	20 00
Tupperville and Railway Station....	J. J. Sutor.....	30yds	6	12 do .....	24 96
Turnerville and Railway Station....	W. Turner.....	$\frac{1}{2}$	6	12 do .....	25 00
Tuscarora and Railway Station....	S. J. McKelvey..	$\frac{1}{2}$	6	12 do .....	109 20
Tweed and Railway Station.....	W. J. Bowell...	$\frac{1}{2}$	20	12 do .....	156 00
Tweedside and Winona.....	A. Land.....	5	3	4 do (to July 31, '88)..	26 00
Tyreconnell and Wallacetown.....	W. Hall.....	4	6	12 do .....	105 00
Uffington and Vankoughnet.....	J. Meyers.....	9	2	12 do .....	40 00
Uthoff and Railway Station.....	J. Lynes.....	$\frac{1}{2}$	12	12 do .....	80 00
Underwood and Willow Creek.....	J. Hyde.....	$\frac{1}{2}$	1	12 do .....	45 00
Unionville and Railway Station....	J. Webber.....	$\frac{1}{2}$	24	6 do (to Sept. 30, '88)..	43 68
do do .....	M. R. Henning-	$\frac{1}{2}$	24	6 do from do ..	40 56
Uphill and Victoria Road .....	G. Sharp.....	12	3	12 do .....	160 00
Uptergrove and Railway Station....	T. Mulvihill....	$\frac{1}{2}$	24	12 do .....	180 00
Utopia and Railway Station.....	P. Connor.....	$\frac{1}{2}$	12	12 do .....	50 00
Utterson and Railway Station.....	E. Hanes.....	$\frac{1}{2}$	12	12 do .....	125 20
Utterson and Windmere.....	N. Hanes.....	15	2	12 do .....	200 00
Uttoxeter and Wanstead.....	N. K. Nesbitt...	6	3	12 do .....	100 00
Uxbridge and Railway Station.....	J. Kinmerly....	$\frac{1}{2}$	24	12 do .....	90 00
Uxbridge and Victoria Corners....	J. Wagg.....	19 r. t.	3	12 do .....	145 00
Vandear and Woodstock .....	N. Schooly.....	9	3	12 do .....	115 00
Vankleek Hill and Railway Station	W. Lawlor.....	12	6	12 do .....	624 00
Varney and Railway Station .....	F. Eden.....	$\frac{1}{2}$	12	12 do .....	64 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Vars and Railway Crossing.....	S. T. Cheney.....	$\frac{1}{2}$	12	4 months 19 days (from Nov. 12, 1888).....	11 57
Vasey and Waverly.....	J. Fraser.....	4	3	9 months (to Dec. 31, '88)	75 00
do do.....	J. Loney.....	4	3	3 do from do	22 25
Ventnor and Railway Station.....	G. A. Henderson.....	$5\frac{1}{2}$	6	12 do	130 00
Verner and Railway Station.....	J. L. Michaud.....	$\frac{1}{2}$	12	12 do	20 00
Victoria Harbor and Ry. Station.....	M. Vasey.....	$\frac{1}{2}$	24	12 do	115 00
Villa Nova and Railway Station.....	M. McAlpine.....	$\frac{1}{2}$	6	12 do	50 00
Villiers and Railway Station.....	W. Weir.....	2	3	12 do	74 88
Vine and Railway Station.....	V. P. Kelcey.....	$1\frac{1}{2}$	12	12 do	56 00
Victoria and Walsh.....	S. Ottley.....	4	3 & 6	12 do	115 50
Vivian and Railway Station.....	N. L. McCormack.....	$\frac{1}{2}$	12	12 do	60 00
Waldemar and Railway Station.....	D. Jenkins.....	$\frac{1}{2}$	12	12 do	64 00
Wahnapiatae and Railway Station.....	D. McLaren.....	$\frac{1}{2}$	12	12 do	37 56
Wales and Railway Station.....	J. W. Baker.....	$\frac{1}{2}$	12	12 do	90 60
Walkerton and Railway Station.....	A. McLean.....	$1\frac{1}{2}$	24	12 do	312 00
Walkerton and Wroxeter.....	T. Sage.....	22	6	12 do	483 00
Walker's and Railway Station.....	J. Greaves.....	$\frac{1}{2}$	12	12 do	30 00
Walkerville and Windsor.....	J. Egan.....	2	12	12 do	120 00
Wallaceburg and Railway Station.....	J. McDougall.....	$\frac{1}{2}$	24	12 do	75 00
Wallacetown and Railway Station.....	C. McGregor.....	$2\frac{1}{2}$	12	12 do	156 00
Waller and Harney's Crossing.....	P. Harney.....	$1\frac{1}{2}$	2	12 do	30 00
Walnut and Watford.....	P. E. Willoughby.....	6	2	12 do	100 00
Warwick and Railway Station.....	J. Smith.....	8	6	12 do	195 00
Washago and Railway Station.....	J. C. Marshall.....	$\frac{1}{2}$	24	12 do	156 00
Waterford and Railway Stations.....	H. Dochstader.....	$\frac{1}{2}$	12	12 do	93 88
Waterloo and Railway Stations.....	F. Sars.....	2	30	12 do	400 00
Waubashene and Railway Station.....	J. Scott.....	$\frac{1}{2}$	24	12 do	60 00
Waverly and Railway Station.....	T. French.....	9	6	12 do	275 00
Webbwood and Railway Station.....	J. McLandress.....	$\frac{1}{2}$	6	3 do (from Jan. 1, '89)	19 25
Weidman and Railway Station.....	O. Jansohn.....	50 ft.	12	12 do	15 00
Weldon and Railway Station.....	J. E. Weldon.....	$\frac{1}{2}$	6	12 do	40 00
Welland and C. S. Railway Station.....	J. McQueen.....	$1\frac{1}{2}$	12	12 do	99 84
Welland and Welland Ry. Station.....	A. W. McAlpine.....	$\frac{1}{2}$	24	9 do (to Dec. 31, '88)...	89 30
do do.....	O. H. Garner.....	$\frac{1}{2}$	24	3 do from do	43 12
Welland and Street Letter Boxes.....	G. H. Burgar (to pay).....		18	12 do	80 00
Welland and Wellandport.....	L. Durham.....	15	6	12 do	395 00
Wellington and Railway Station.....	M. Pettit.....	$\frac{1}{2}$	12	12 do	65 00
Wellman's Corners and Ry. Station.....	P. Hubble.....	2	3	12 do	75 00
Wemyss and Railway Station.....	R. Ritchie.....	$\frac{1}{2}$	6	12 do	15 00
Wendover and N. N. Mills Railway Station.....	J. B. Malette.....	3	6	12 do	170 00
Wesleyville and Railway Station.....	J. Barrowclough.....	$1\frac{1}{2}$	6	12 do	93 60
West Toronto Junction and Railway Station.....	J. Kirkwood.....	$\frac{1}{2}$	12	12 do	75 00
West Winchester and Ry. Station.....	J. Coons.....	1	12	4 do 18 days (to Sept. 30, 1888).....	28 64
do do.....	A. Kendrick.....	1	12	6 do from do	37 50
Westport and Railway Station.....	M. Grady.....	20	6	5 do (to Feb. 28, '89).	205 00
do do.....	J. H. Whelan.....	20	6	1 do from do	41 00
Westwood and Railway Station.....	J. S. Comstock.....	$2\frac{1}{2}$	6	12 do	125 00
Whitby and Railway Station.....	J. Scott.....	$\frac{1}{2}$	18	12 do (less fine).....	102 28
Whitechurch and Railway Station.....	H. D. Henderson.....	$\frac{1}{2}$	12	12 do	80 00
Whitefish and Railway Station.....	H. Smith.....	$\frac{1}{2}$	6	4 do (from Dec. 1, '88)	10 30
White River and Railway Station.....	W. E. McLaughlin.....	$\frac{1}{2}$	12	12 do	30 00
Warton and Railway Station.....	I. Post.....	$\frac{1}{2}$	12	12 do	125 00
Wilbur Station and Railway Station.....	T. B. Caldwell.....	$\frac{1}{2}$	6	12 do	25 00
Wilton Grove and Railway Station.....	P. Murray.....	$\frac{1}{2}$	6	12 do	30 00
Windsor and Detroit, U.S.....	S. D. Huff.....	2	24	12 do	500 00
Windsor and Railway Station.....	do.....	1	24	12 do (less fine).....	219 00

DETAIL of all payments for Mail Transportation in Ontario, &c.—*Concluded.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Wingham and C.P. Railway Station	W. Black.....	5	6	3 months 19 days (to July 19, 1888)	37 65
do do	do .....	$\frac{3}{4}$	12	8 months 12 days (from July 20, 1888)	39 93
Wingham and G. T. Ry. Station	D. Campbell....	$\frac{3}{4}$	24	12 months	199 68
Wolverton and Railway Station	S. Claus .....	1	12	12 do	114 00
Woodbridge and Railway Station	F. Earls .....	$\frac{1}{4}$	24	12 do	72 00
Woodslee and Railway Station	J. P. Henry....	$1\frac{3}{8}$	12	12 do	156 00
Woodstock and Railway Stations	J. A. McKenzie.	1 & $\frac{1}{8}$	12 & 24	12 do	320 30
Woodstock and Street Letter Boxes	A. McCleneghan (to pay).....		18	9 do (from July 1, '88)	172 50
Woodville and Railway Station	H. Ferguson....	$\frac{3}{4}$	24	12 do	150 00
Wroxeter and Railway Station	A. Paulin.....	$1\frac{1}{4}$	12	12 do	72 50
Wyebridge and Wyevale Station	N. McRae.....	5	6	12 do	134 00
Wyevale and Railway Station	W. T. Stewart..	$\frac{1}{16}$	6	12 do	30 00
Wylie and Railway Station	J. Lyons.....	2	3	12 do	62 00
Wyton Station and Railway Station	G. Scatcherd...	$\frac{1}{8}$	12	12 do	20 00
Yarmouth Centre and Ry. Station	G. A. Parlee....	$\frac{1}{2}$	6	12 do	100 00
Zephyr and Railway Station	J. N. Dafoe....	3	6	12 do	159 00
Suspension Bridge Tolls	W. G. Swan, Superintendent			12 do	40 00
Total.....					\$273,547 10

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.



DETAIL of all payments for Mail Transportation in Ontario, made within the Year ended 30th June, 1889.  
CONVEYANCE OF MAILS BY STEAMBOATS AND SAILING VESSELS.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Deseronto and Picton.....	Deseronto Navigation Co.	17	6	12 months (and extra service).....	\$ cts. 2,297 89
Gananoque and Clayton, U.S.....	Thousand Islands Railway Co.	12	6	Season 1888.....	200 00
Kingston and Cape Vincent, U.S.....	M. H. Folger.....	18	6 & 12	12 months.....	1,200 00
Kingston and Thousand Island Park, U.S.....	do.....	24	6	Season 1888.....	200 00
Kingsville and Pelee Island.....	H. T. Lidwell.....	20	1	6 months (See land service).....	285 00
Lindsay and Sturgeon Point.....	G. Grandell.....	8	6	do.....	75 00
Michipicooten Island and Sault Ste. Marie.....	J. Cozens.....	160	1	Season 1888.....	10 00
Niagara and Toronto.....	Niagara Navigation Co.	36	6 & 12	do.....	942 50
Outer Duck Island and Windsor.....	C. W. Gauthier.....	270	2	do.....	75 00
Port Hope and Charlotte, U.S.....	C. F. Gildersleeve.....	60	6	do.....	556 66
Sea rate upon parcels transmitted between Canada and the United Kingdom, not covered by the Allan contract.....	Andrew Allan.....	2,650 s. & 2,530 w	1	1 year 11 months (to 30th June, '88).....	2,697 60
				Total.....	\$8,539 65

N.B. — For Special Mail Subsidies and Steamship Subventions, see page 9.

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

*Detail of all payments for Mail Transportation in Ontario, made within the Year ended 30th June, 1889.*

CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Bay of Quinte Railway and Navigation Co.	4	18	12 months (to 31st March, 1889)	\$ 730 00
Canada Atlantic Railway (within Ontario)	79	12	do (to 31st May, 1889)	7,748 48
Canada Southern Railway	347 3/4	6 & 12	do (to 31st March, 1889)	32,934 55
Canadian Pacific Railway (within Ontario)*	1,856 1/2	With varying frequency over different sections of the line	12 do 12 do 12 do	125,514 88
Central Ontario Railway	104	6	do	5,472 48
Erie and Huron Railway	67	6	do	4,243 20
Grand Trunk Railway (within Ontario)	2,445	With varying frequency over different sections of the line	12 do 12 do 12 do	259,065 74
Kingston and Pembroke Railway	104	6 & 12	do	7,189 73
Leamington and St. Clair Railway	15	24	do	138 00
Napanee, Tainworth and Quebec Railway	28 1/2	12	do	3,889 96
Thousand Islands Railway	2	24	do	730 00
			Total	\$447,657 02

\* This does not include the service between St. Polycarpe and Smith's Falls, *see* Quebec.

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c.,  
in Ontario, made within the year ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		\$ cts.
S. & H. Borbridge.....	Mail bags, labels and repairs for Post Office Department..	5,078 80
R. S. Montgomery.....	Mail bags, rivet, seals, &c., for do ..	1,165 50
E. Chanteloup.....	Brass mail locks for do ..	920 50
Smith & Egge Manufacturing Co. ....	Mail bag locks and keys for do ..	45 25
Miller Lock Co.....	do do ..	30 25
G. Bailey.....	Repairing brass mail locks for do ..	150 20
Pritchard & Andrews.....	Mail bag labels for do ..	374 85
L. W. Shannon.....	Stencilling mail bags for Post Office Inspector, Kingston..	2 64
Tackaberry & Wignmore.....	Repairing mail bags for do London....	19 50
Tackaberry & Loughrey.....	do do do ..	35 55
T. Thompson.....	Mail bag labels and repairs for do Toronto...	215 88
E. H. Roberts.....	Repairing brass mail locks for do do ..	35 70
G. Bailey.....	do for Postmaster, Kingston ..	2 50
Tackaberry & Loughrey.....	Repairing mail bags do London.....	28 65
G. Bailey.....	Repairing brass mail locks do do ..	2 25
Postmaster, Sundridge.....	To pay for repairing mail bag at Sundridge.....	0 25
T. Thompson.....	Repairing mail bags for Postmaster, Toronto.....	1,125 24
G. Bailey.....	Repairing brass mail locks for Postmaster, Toronto.....	78 90
S. & H. Borbridge.....	Letter carrier's waterproof satchels for Postmaster, Toronto.	77 90
	Total.....	\$9,390 31

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF QUEBEC.

DETAIL of all payments for Mail Transportation in Quebec, made within the Year ended 30th June, 1889.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					8 cts.
Abbotsford and Pauline.....	A. Lasnier.....	3	3	8 months (from Aug. 1, '88)	40 00
Abbotsford and Railway Station...	D. Sharkey.....	1	12	12 do	60 00
Abercorn and Railway Station.....	E. R. Shepard.....	1	12	12 do	75 00
Acton Vale and Railway Station.....	C. P. Ry. Co.....	77	12	12 do	40 00
Acton Vale and St. Théodore d'Acton.....	A. Laplante.....	4	6	12 do	100 00
Adamsville and Brigham.....	D. Larivée.....	4	6	4 do 5 d's (to Aug. 5, '88)	48 69
Adamsville and Railway Station.....	do.....	3	12	7 do 26 d's (from do)	52 17
Adderley and St. Pierre Baptiste...	P. A. Drolet.....	3	3	12 do	45 00
Adstock and St. Ephrem de Tring.	J. Roy.....	9	1	12 do	39 72
Agnes and Nadeau's Crossing.....	P. Roy.....	4	1	12 do	25 00
Agnes and Railway Station.....	J. S. Wilson.....	3	12	12 do	36 00
Agnes and Ste Cécile de Whifton...	A. Loubier.....	9	3	12 do	96 00
Agnes and St. Samuel de Gayhurst...	R. Dallaire.....	15	2	12 do	120 00
Agnes and Three Lakes.....	H. W. Albree.....	10	1	12 do	49 00
Aird, Clarenceville and Miranda...	M. J. Burwort.....	6 & 4	3	12 do	96 00
Allan's Corners and Cairnside.....	J. Bryson.....	4	2	12 do	52 00
Allan's Corners and Ry. Station.....	do.....	1	6	12 do	40 00
Allard Settlement and Nouvelle...	T. Keays.....	3	1	12 do	20 00
Allumette Island and Pembroke...	J. J. McGuire.....	7	2	12 do	85 00
Amqui and Railway Station.....	T. Ross.....	60 yds	12	12 do	48 00
Ancienne Lorette and Champigny...	G. Dufresne.....	2	6	7 do (from Sept. 1, '88)	35 00
Ancienne Lorette and Ry. Station...	H. Robitaille.....	400 y's	12	5 do (to Aug. 31, 1888)	33 33
Ancienne Lorette and Sub-Office...	G. Dufresne.....	3	6	5 do	25 00
Anderson's Corners and Dewittville...	J. Anderson.....	4	2	12 do	63 75
Ange Gardien and Railway Station...	P. Lajoie.....	1	12	12 do	50 00
Angeline and St. Alphonse de Granby.....	O. Boisvert.....	4	3	12 do	78 00
Angers and Railway Station.....	L. Moncion.....	1	6	12 do	60 00
Annesley and North Onslow.....	P. Killoran.....	4	1	12 do	27 50
Antoinette and Lost River.....	C. Boon.....	22	2	12 do	150 00
Antoinette and St. Jovite.....	do.....	7	2	12 do	56 00
Armagh and St. Raphaël.....	J. Bélanger.....	15	3	12 do	68 00
Armstrong Ry. Station and Sorel...	J. Léveillé.....	1	12	6 do 15 d's (to Oct. 15, 1888)	40 34
Arthabaskaville and Chester.....	J. Côté.....	8	6	12 do	156 00
Arthabaskaville and Victoriaville...	P. Bergeron.....	2 1/2	12	12 do	90 00
Arthabaskaville, Victoriaville and Railway Station.....	T. Perreault.....	1 1/2 & 2 1/2	6 & 12	12 do	58 00
Arundel and Rockway Valley.....	C. Sinclair.....	5	1	12 do	30 00
Ascot Corner and Railway Station...	A. Stacey.....	1 1/2	12	12 do	50 00
Ascot Corner and Westbury.....	J. P. Woodrow.....	4	3	12 do	50 00
Aston Station and Railway Station...	A. Ouellette.....	120 y's	6	12 do	20 00
Aston Station and St. Léonard d'Aston.....	N. Doucette.....	9	6	12 do	237 00
Aston Station and St. Sylvere.....	J. Taillon.....	5 1/2	3	6 do (from Oct. 1, '88)	40 00
Athelstand and Powerscourt.....	P. C. McGinnis.....	2	3	6 do (to Sept. 30, '88)	24 50
do do	A. Montgomery.....	2	3	4 do (from Dec. 1, '88)	16 66
Aubert Gallion and St. George, Beauce.....	W. M. Pozer.....	2	6	12 do	35 00
Avignon and Matapedia.....	A. Gallant.....	7	6	6 do (to Sept. 30, 1888)	72 00
do do	L. Bloquière.....	7	6	6 do from do	82 00
Avoca and Pointe au Chêne.....	J. McCallum.....	7	3	12 do	108 00
Ayer's Flat and Kingscroft.....	C. E. Cartier.....	6	2	12 do	74 00
Ayer's Flat and Railway Station...	H. G. Ayer.....	1	12	12 do	40 00
Aylmer and Ottawa.....	A. M. Holt.....	9	12	6 do (to Sept. 30, '88)	247 50
Aylmer and Railway Station.....	do.....	1	30	6 do (from Oct. 1, '88)	124 76
Bagotville and Chicoutimi.....	E. Leveque.....	13	As req	Seasons 1888.....	49 50

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Bagotville and Grande Baie .....	J. Savard .....	3	As req	Season 1888 .....	58 50
Bagotville and Wharf .....	E. Levêque .....	$\frac{1}{2}$	do	do .....	20 00
Baie des Pères and Lake Témiscamingue .....	C. C. Farr .....	3	1	12 months .....	30 00
Baillargeon and Railway Station .....	B. Huot .....	3	3	12 do .....	40 00
Baldwin's Mills and Barnston .....	W. K. Baldwin .....	5	3	12 do .....	84 00
Barachois de Malbaie and Wharf .....	T. S. Vardon .....	4	As req	Season 1888 .....	70 85
Bassin du Lièvre and Ry. Station .....	F. X. Nanaville .....	$\frac{1}{2}$	6	12 months .....	66 00
Batiscan and Railway Station .....	T. Laguerre .....	1	12	12 do .....	100 00
Batiscan and St. Pierre les Becquets do .....	C. A. Maguy .....	3	6	3 do (to June 30, '88) .....	45 00
do .....	F. Maguy .....	3	6	9 do from do .....	112 50
Beauce Junction and Jersey Mills. do .....	T. Lessard .....	26 $\frac{1}{2}$	6	6 do (to Sept. 30, '88) .....	257 50
do .....	A. Lessard .....	26 $\frac{1}{2}$	6	6 do from do .....	339 00
Beauce Junction and Ry. Station .....	V. Bilodeau .....	60 yds	12	12 do .....	25 00
Beauce Junction and St. Joseph .....	J. Laguerre .....			Special trips .....	10 50
Beauharnois and Caughnawaga .....	O. Duquette .....	15 $\frac{1}{2}$	6	8 months 20 days (to Dec. 20, 1888) .....	249 37
Beauharnois and Laberge .....	C. Primeau .....	5	2	12 do .....	50 00
Beauharnois and Melocheville .....	E. Rapin .....	3	6	3 do 11 days (from Dec. 21, 1888) .....	25 16
Beauharnois and Railway Station .....	O. Duquette .....	$\frac{1}{2}$	24	3 do 11 dys. from do .....	34 94
Beauharnois and St. Etienne de Beauharnois .....	do .....	5	6	9 do (from July 1, '88) .....	121 50
Beauharnois and St. Louis de Gonzague .....	B. Paré .....	10	6	3 do (to June 30, '88) .....	49 50
Beauharnois and Valleyfield .....	E. Rapin .....	15	6	8 do 20 days (to Dec. 20, 1888) .....	142 93
Beaupré and St. Féréol .....	F. Michel .....	7	3	12 do .....	100 00
Beauvillage and Parkhurst .....	J. Machell .....	3	6	12 do .....	58 00
Beauvoir and Ste. Marthe .....	J. E. Poirier .....	34	3	12 do .....	50 00
Bécancour and Ste. Gertrude .....	M. Deshaies .....	10 $\frac{1}{2}$	6	12 do .....	249 00
Bécancour and St. Grégoire .....	N. Vigneault .....	9	6	12 do .....	197 19
Bécancour Station and Inverness .....	W. Johnston .....	11	7	12 do .....	312 00
Bedford and Pearcetown .....	J. Briggs .....	8 $\frac{1}{2}$	6	12 do .....	210 00
Beebe Plain and Railway Station .....	C. H. McClintock .....	$\frac{1}{2}$	12	12 do .....	75 00
Beech Grove and Quyon .....	J. Mohr .....	5 $\frac{1}{2}$	3	12 do .....	100 00
Bellerica and Railway Station .....	J. M. Pritchard .....	$\frac{1}{2}$	6	12 do .....	20 00
Bell Mount and Otter Lake .....	G. Palmer .....	6	1	12 do .....	30 00
Belœil Village and St. Hilaire Village .....	P. Authier .....	1	12	12 do .....	150 00
Bennett and Maple Grove .....	J. Bennett .....	3	3	12 do .....	50 00
Beranger and Dunham .....	S. Cook .....	4	2	12 do .....	50 00
Bergerville and Quebec .....	J. Drolet .....	3	6	12 do .....	90 00
Bersimis and Moisie .....	P. C. Dupuis .....	280	4	Season 1888-89 .....	755 00
Bersimis and Sault au Cochon .....	S. Miller .....	26	2	12 months .....	550 00
Berthier ( <i>en bas</i> ) and Ry. Station .....	V. Guilmet .....	23	12	12 do .....	78 00
Berthier ( <i>en haut</i> ) and Isle Dupas .....	P. Moreau .....	23	3	12 do .....	60 00
Berthier ( <i>en haut</i> ) and Ry. Station .....	F. Plante .....	23	13	12 do .....	197 45
Berthier and Sorel .....	S. Valois .....	5	14 s } 7 w }	12 do .....	444 00
Bic and Railway Station .....	J. R. Colclough .....	10 yds	12	12 do .....	23 09
Bic and St. Valérien de Rimouski .....	J. Moisan .....	34	6	12 do .....	100 00
Birchton and Railway Station .....	J. A. McNeight .....	1 $\frac{1}{2}$	12	3 do (to June 30, '88) .....	6 50
do .....	R. Bridgette .....	1 $\frac{1}{2}$	12	9 do from do .....	19 50
Birchton and Sand Hill .....	D. M. Caswell .....	4	3	12 do .....	54 00
Birchton and Sawyerville .....	L. Munn .....	6	6	12 do .....	260 00
Bishop's Crossing and East Dudswell .....	H. R. Bishop .....	3	2	12 do .....	40 00
Bisson and Railway Station .....	F. Hamanne .....	50 yds	12	12 do .....	40 00
Bisson and Saints Anges .....	C. Drouin .....	6	3	12 do .....	90 00
Black Cape and Querry .....	A. Querry .....	4 $\frac{1}{2}$	3	12 do .....	60 00
Blanche and Thurso .....	M. McAndrew .....	16	3	12 do .....	180 00
Blanchet and St. Lambert .....	J. Paquet .....	$\frac{1}{2}$	6	12 do .....	20 00
Blanfold and Stanfold .....	N. Brulé .....	9	4	12 do .....	116 74
Blue Bonnets and Railway Station .....	A. Doré .....	$\frac{1}{2}$	6	12 do .....	52 00
Bois de Filion and Ste. Thérèse de Blainville .....	O. Chapleau .....	4	2	12 do .....	40 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					8 cts.
Bois Franc and Mattawa.....	C. Rankin.....	40	1	12 months.....	375 00
Bolton Centre, Knowlton and Knowlton Landing.....	G. Bice.....	9	6	12 do.....	475 00
Bolton Forest and Eastman.....	C. J. Fortin.....	2	3	4 do 19 dys (from Nov. 12, 1888).....	19 29
Bolton Forest and Railway Station.....	do.....	$\frac{1}{2}$	6	6 do 8 days (to Oct. 8, 1888).....	13 56
Bolton Forest and Railway Crossing.....	do.....	$\frac{1}{2}$	6	1 do 2 days (to Nov. 11, 1888).....	3 69
Bonaventure Island and Percé.....	P. Bossy.....	3	3	12 do.....	60 00
Booth and Dunoine.....	J. Lafrenière.....	46	1	12 do.....	300 00
Bordeaux and Railway Station.....	G. Picard.....	$\frac{1}{2}$	12	12 do.....	10 00
Bordeaux and Sault au Récollet.....	Z. Berard.....	2 $\frac{1}{2}$	6	12 do.....	120 00
Boscobel and Roxton Falls.....	W. Hackwell.....	8	1	12 do.....	30 00
Botreaux and Ormstown.....	O. Bergevin.....	4 $\frac{1}{2}$	2	12 do.....	42 00
Boucherville and Railway Station.....	A. Bemeur.....	133 yd	12	9 do (to Dec. 31, '88).....	54 00
Boulogne and St. Eugène de Grantham.....	J. Rondeau.....	4 $\frac{1}{2}$	3	3 do (to June 30, '88).....	18 00
do do.....	G. Tanguay.....	4 $\frac{1}{2}$	3	9 do from do.....	54 00
Bourg Louis and Railway Station.....	P. Russell.....	3	6	12 do.....	75 00
Boynton and Fairfax.....	R. Towle.....	4 $\frac{1}{2}$	3	12 do.....	75 00
Boynton and Railway Station.....	J. Crosbie.....	$\frac{1}{4}$	12	12 do.....	25 00
Brigham and Farnham Centre.....	P. E. O'Connor.....	2	6	12 do.....	80 00
Brigham and Railway Station.....	J. Harrison.....	$\frac{1}{4}$	12	12 do.....	48 00
Bristol and Railway Station.....	G. Morrison.....	3 $\frac{1}{2}$	6	12 do.....	125 00
Bristol Mines and Elmside.....	R. Campbell.....	3	3	12 do.....	75 00
Britannia Mills and Railway Station.....	H. Guilbert.....	60 yds	12	12 do.....	20 00
Britonville and St. Sauveur.....	J. Hamilton.....	8	3	12 do.....	100 00
Brome and Railway Station.....	E. S. Chapman.....	$\frac{1}{2}$	6	12 do.....	60 00
Brompton and Brompton Falls.....	H. Addison.....	4	3	12 do.....	80 00
Brookbury and Robinson.....	R. Rowe.....	5	2	12 do.....	48 00
Broughton and Railway Station.....	J. Stewart.....	3	3	12 do.....	45 00
Broughton Station and East Broughton.....	L. Beaudoin.....	5 $\frac{1}{2}$	6	12 do.....	150 00
Broughton Station and Ry. Station.....	J. McGee.....	50 yds	12	12 do.....	24 00
Broughton Station and Sacré Cœur de Marie.....	J. Vallière, jr.....	6	6	1 do (to April 30, '88).....	11 17
Broughton Station and West Broughton.....	M. Rousseau.....	6 $\frac{1}{2}$	6	12 do.....	140 00
Brownsburg and Mount Maple.....	J. Warwick.....	3 $\frac{1}{2}$	1	12 do.....	24 00
Bryson and Portage du Fort.....	J. Murtagh.....	8	6	12 do.....	200 00
Bryson and Railway Station.....	R. M. Ritchie.....	5	12	2 do (to May 30, '88).....	32 50
do do.....	J. Murtagh.....	5	12	10 do from do.....	162 50
Buckingham and High Rock.....	C. W. Pearson.....	21 & 20	6s. 3w.	12 do.....	565 11
Buckingham and Railway Station.....	do.....	$\frac{1}{4}$ & $\frac{1}{4}$	12	12 do.....	97 00
Buckland and St. Lazare.....	L. Laflamme.....	15	3	6 do (to Sept. 30, '88).....	70 00
do do.....	L. Kemner.....	15	3	6 do from do.....	97 50
Buckland and St. Magloire.....	P. Tanguay.....	18	3	12 do.....	177 00
Bulwer and Railway Station.....	A. Sanborn.....	$\frac{1}{8}$	10	12 do.....	20 00
Burnside and St. Hermas Station.....	J. Wood.....	3	3	4 do (to July 31, '88).....	18 66
Cacouna and Railway Station (via St. Arsène).....	J. B. Beaulieu.....	5	12	12 do.....	250 00
Cacouna and Railway Station.....	do.....	2 $\frac{1}{2}$	12	Season 1888.....	35 42
Caldwell and Railway Station.....	R. Horner.....	1	6	12 months.....	50 00
Calumet and Railway Station.....	H. Burch.....	100 y's	12	12 do.....	26 00
Calumet and St. Rémi d'Amherst.....	L. Champagne.....	39	1	9 do (from July 1, '88).....	210 00
Calumet Island and Colfield.....	J. E. Cahill.....	1 $\frac{1}{2}$	12	7 do (to Oct. 31, 1888).....	70 00
Calumet Island and Campbell's Bay.....	do.....	1 $\frac{1}{2}$	13	5 do (from Nov. 1, '88).....	34 44
Calumet Island and Dunraven.....	C. Barsalou.....	5	3	12 do.....	78 00
Campbell's Bay and Railway Station.....	P. McNally.....	40 yds	6	9 do (from July 1, '88).....	7 50
Campbellton and Paspébiac.....	A. Cyr.....	88	6	12 do (less fines).....	3,871 00
Canterbury and Scottstown.....	R. Groom.....	4	2	12 do.....	42 00
Cantley and Kirk's Ferry.....	M. Reid.....	3	3	12 do.....	85 00
Cartley and Lucerne.....	R. Blackburn.....	19	1	12 do.....	125 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Cap à L'Aigle and Murray Bay....	P. Savard .....	3	6	Season 1888.....	60 50
Cape Cove and Wharf .....	E. Bourget .....	1	As req	do .....	71 00
Capelton and Railway Station .....	S. L. Spafford .....	3	12	3 mos. (from Jan. 1, '89).	10 00
Cap Magdeleine and Ry. Station....	O. Toupin .....	5	12	12 do .....	180 00
Cap Rouge and Quebec .....	J. Drolet .....	9	6	12 do .....	199 00
Cap St. Ignace and Railway Station	H. C. LaRue .....	13	12	12 do .....	90 00
Cap Santé and Les Ecureuils .....	P. Pagé .....	43	6	12 do .....	150 00
Cap Santé and Portneuf .....	E. Marcotte .....	5	6	12 do .....	150 00
Carillon and Lachute .....	M. Campeau .....	103	6	12 do .....	320 00
Carillon and Pointe Fortune .....	J. Larocque .....	1	12	5 do 3 days (to Oct. 13, 1888).....	40 50
Carillon and Vaudreuil Station .....	D. Rochon .....	253	6	6 do 26 days (broken period).....	663 75
Casault and Railway Station .....	J. Ouellet .....	2	3	12 months .....	40 00
Castlebar and Danville .....	J. Jarvis .....	5	6	12 do .....	150 00
Castor and Hamilton Cove .....	R. Pincombe .....	33	3	6 do (from Oct. 1, '88).	35 00
Caughnawaga and Wharf .....	A. de Lorimier .....	3	12	8 do 20 days (to Dec. 20, 1888).....	63 37
Caughnawaga Ry. Station and Chateauguay .....	A. Desparois .....	71	6	3 do 11 days (from Dec. 21, 1888).....	55 91
Causapsal and Railway Station .....	R. A. Blais .....	150 y's	12	12 do .....	50 00
Cawood and Danford Lake .....	G. Tanner .....	9	1	12 do .....	52 00
Cedar Hall and Railway Station .....	J. Smith .....	60 yds	6	12 do .....	12 00
Cedars and Railway Station .....	E. Bissonnette .....	3	12	12 do .....	180 00
Chambly Basin and Railway Station	G. E. Mayrand .....	1	12	12 do .....	80 00
Chambly Canton and Ry. Station .....	J. Hackett .....	1	12	12 do .....	80 00
Chambord and Dablon .....	J. Bilodeau .....	17	1	9 do (to Dec. 31, '88).	52 50
Chambord and Métabetchouan .....	A. Sasseville .....	9	3	3 do (to June 30, '88).	43 75
do do .....	C. Gagnon .....	9	6	9 do from do .....	262 50
Chambord and Roberval .....	A. G. Matte .....	11	6	12 do .....	263 09
Chambord and Railway Station .....	J. Bilodeau .....	1	12	12 do .....	148 80
Champigny and Railway Station .....	H. Robitaille .....	1	12	7 do (from Sept. 1, '88)	46 67
Champlain and Railway Station .....	J. Abel .....	2	12	12 do .....	90 00
Channay and Piopolis .....	F. Poulin .....	9	1	6 do (to Sept. 30, '88).	25 00
do do .....	P. B. Keens .....	9	1	6 do from do .....	30 00
Chantelle and Rawdon .....	A. Morin .....	17	3	12 do .....	210 00
Chapeau and Fort Coulonge .....	J. G. Poupore .....	21	3	12 do .....	345 00
Chapeau, Pembroke and Fort William .....	A. S. Maloney .....	22	6 & 3	12 do .....	499 00
Charlemagne and L'Assomption .....	J. Belhumeur .....	9	6	12 do .....	250 00
Charlemagne and Montreal .....	M. Archambault .....	163	6	12 do .....	475 00
Charlesbourg and Charlesbourg West	E. Lefebvre .....	24	2	12 do .....	25 00
Charlesbourg and Quebec .....	do .....	5	2	12 do .....	80 00
Charteris and North Clarendon .....	J. Ralph .....	3	1	7 do (to Oct. 31, '88) ..	11 67
do do .....	do .....	3	3	5 do from do .....	16 67
Chartierville and La Patrie .....	A. Labbé .....	9	2	12 do .....	75 00
Chatboro' and St. Philippe d'Argenteuil .....	W. Douglas .....	23	3	12 do .....	39 00
Chatillon and St. Zéphirin .....	C. Castonguay .....	52	3	12 do .....	64 00
Chaudière Curve and Ry. Station .....	A. Lemieux .....	30 yds.	12	12 do .....	20 00
Chaudière Mills and Ry. Station .....	do .....	33	6	12 do .....	100 00
Chaudière Station and Ry. Station .....	A. McTeer .....	300 yd	6	12 do .....	35 00
Chaumont and St. Agapit .....	T. Paquet .....	3	3	12 do .....	40 00
Chelsea and Old Chelsea .....	H. Edmonds .....	14	6	9 do (to Dec. 31, '88).	37 50
do do .....	G. Edmonds .....	14	6	3 do from do .....	15 00
Chelsea and Ottawa .....	R. Haste .....	9	6	3 do (from Jan. 1, '89)	50 00
Chemin Taché and St. Cyprien .....	G. Dallaire .....	6	1	12 do .....	35 00
Chemin Taché and St. François Xavier de Viger .....	O. Tremblay .....	6	2	12 do .....	60 00
Cheneville and Namur .....	F. Farant .....	9	3	12 do .....	130 00
Cheneville and Papineauville Station	H. W. Raby .....	23	6	12 do .....	230 00
Cherry River and Magog .....	R. A. Buzzell .....	4	3	12 do .....	100 00
Chester and North Ham. ....	D. Côté .....	13	3	12 do .....	120 00
Chicoutimi and Grande Baie .....	U. Gobeil .....	13	6	6 do (from Oct. 1, '88)	156 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Chicoutimi and Hebertville.....	E. Girard.....	40	3 & 6	12 months (less fines).....	662 50
Chicoutimi and Laterrière.....	D. Simard.....	10	6	12 do.....	284 96
Chicoutimi and Murray Bay River.....	A. Lavoie.....	50	6	6 do (to Sept. 30, '88).....	655 00
Chicoutimi and Tremblay.....	N. Laforge.....	2	6	12 do.....	80 00
Chicoutimi and Wharf.....	F. Simard.....	16	1	Season 1888.....	57 75
Châte aux Iroquois and L'Annon- ciation.....	J. Demers.....	16	1	12 months.....	75 00
Châte aux Iroquois and St. Jovite.....	P. Marinier.....	20	2	12 do.....	180 00
Chairvaux and St. Paul's Bay.....	E. Gauthier.....	7½	3	12 do.....	72 00
Clapham and Inverness.....	J. Forbes.....	13½	2	12 do.....	156 00
Clarenceville and Lacolle Ry. Station.....	M. J. Burnot.....	4	6	12 do.....	240 00
Clarenceville and Wolfe Ridge.....	do.....	4	3	12 do.....	40 00
Coaticook and Canaan, U.S.....	A. Trihey.....	19	2	6 do (to Sept. 30, '88).....	90 00
do do.....	M. Trihey.....	19	2	6 do from do (less fine).....	98 08
Coaticook and North Coaticook.....	E. Tonkins.....	1½	12	3 do (to June 30, '88).....	12 50
do do.....	J. Meade.....	1½	12	9 do from do.....	59 79
Coaticook and Rock Island.....	C. N. Remick.....	20	6	3 do (to June 30, '88).....	118 75
do do.....	H. A. Channelle.....	20	6	9 do from do.....	337 50
Coaticook and St. Malo.....	C. Breault.....	30	2	12 do.....	380 00
Coleraine Station and Ry. Station.....	J. Roberge.....	67 yds.	12	12 do.....	40 00
Coleraine Station and Sandborn.....	F. Hagerly.....	14	3	12 do.....	196 00
Coleraine Station and Wolfstown.....	N. Roy.....	9	3	12 do.....	128 00
Collfield and Railway Station.....	M. Hughes.....	1	6	12 do.....	50 00
Como and Oka.....	C. Chaurette.....	1	6	6 do 26 dys. (broken period).....	53 10
Compton and Martinville.....	F. Pierce.....	6	6	12 months.....	200 00
Compton and Ste. Edwidge.....	G. Boulay.....	10	3	7 do (to Oct. 31, '88).....	87 50
Compton, Coaticook and Ste. Ed- widge.....	do.....	10 & 9	3	5 do (from Nov. 1, '88).....	125 00
Contrecoeur and Railway Station.....	J. Hurteau.....	4	12	6 do 15 dys. (to Oct. 15, '88).....	21 66
Contrecoeur and Varennes.....	H. Handfield.....	18	6	5 do 17 dys. (from Oct. 15, '88).....	258 69
Cookshire and Island Brook.....	J. Miller.....	1	12	12 do.....	225 00
Cookshire and Railway Station.....	S. J. Osgood.....	1	12	12 do.....	52 00
Cooper's Corners and La Guerre.....	T. Cooper.....	1½	12	12 do.....	96 00
Corbin and Frontier.....	A. Roberts.....	2	6	12 do.....	60 00
Côteau du Lac, Coteau Landing and Railway Station.....	N. Deguire.....	2 & 3	12 & 6	12 do.....	130 00
Côteau Landing and Ry. Station.....	G. Gauthier.....	2	19	12 do.....	200 00
Côteau Landing and Ste. Zotique.....	O. D. Prieur.....	2½	6	12 do.....	60 00
Côteau Station and St. Clet.....	M. Besner.....	6	6	3 do (to June 30, '88).....	50 00
do do.....	J. Lalonde.....	6	6	9 do from do.....	150 00
Côte St. Louis anl Mile End.....	M. Hotte.....	1	6	4 do (to July 31, '88).....	17 33
Côte St. Michel and Montreal.....	L. Tassé.....	6½	3	4 do do.....	40 00
Côte St. Michel and St. Léonard de Port Maurice.....	do.....	1½	3	4 do do.....	13 33
Côte St. Paul and Railway Station.....	E. Latour.....	1	12	12 do.....	96 00
Covey Hill and Vicars.....	W. Orr.....	2	6	12 do.....	52 00
Cowansville and Railway Station.....	J. E. O'Halloran.....	4	12	12 do.....	72 00
Craig's Road Station and Fréchette.....	N. Fréchette.....	2½	3	12 do.....	50 00
Craig's Road Station and Railway Station.....	N. Fournier.....	10 yds	12	12 do.....	20 00
Craig's Road Station and St. Syl- vester East.....	L. Demers.....	24	6	12 do.....	590 00
Cranbourne and Cudaff.....	W. Wilson.....	5	3	12 do.....	67 48
Cranbourne and Frampton.....	V. Lacroix.....	8	3	12 do.....	120 00
Cross Point and Ste. Anne de Res- tigouche.....	C. Guay.....	2	6	12 do.....	100 00
Cross Point and Sillarville.....	A. McDonald.....	10½	2	9 do (to Dec. 31, '88).....	63 00
do do.....	J. Hume.....	10½	2	3 do from do.....	19 00
Cumberland Mills and Riv. Gilbert.....	T. J. Taylor.....	8	1	12 do.....	50 00
Dablon and Railway Station.....	G. Larouche.....	1	3	3 do (from Jan. 1, '89).....	6 25



## DETAIL of all payments for Mail Transportation in Quebec, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Dalesville and Edina .....	J. Tomalty .....	6	1	12 months .....	30 00
Dalesville and Lachute .....	P. McArthur .....	6	6	12 do .....	180 00
Dalesville and Louisa .....	W. Watchorn .....	5	2	12 do .....	44 00
Delesville and St. Michel de Wentworth .....	M. Meilleur .....	9	1	12 do .....	42 00
Dalhousie Mills and Feveril .....	A. Morrison .....	2	6	12 do .....	60 00
Danby and Railway Station .....	S. D. McGee .....	50 yds	12	12 do .....	12 00
Danford Lake and Kazubazua .....	H. Heeney .....	9	2	12 do .....	90 00
Danford Lake and Otter Lake .....	do .....	18	1	12 do .....	123 50
Danville and Railway Station .....	R. M. Gibson .....	1	6	12 do .....	34 00
Danville and Ste. Canille .....	M. Painchaud .....	47	3	12 do .....	250 00
Danville and St. George de Windsor .....	J. Godbout .....	10	3	12 do .....	120 00
Danville and South Ham .....	L. A. Turcotte .....	24	3	12 do .....	370 00
D'Auteuil and Kingsey Falls .....	J. D. Morin .....	6½	2	12 do .....	80 00
Delisle and St. Joseph d'Alma .....	T. Maltais .....	8	2	12 do .....	104 00
Dell and Scotstown .....	M. J. McDonald .....	5½	1	1 do (from Mar. 1, '89) .....	4 16
Denison's Mills and Richmond East .....	J. R. Denison .....	7	2	12 do .....	125 00
Dequen and Railway Station .....	O. Couture .....	2	3	3 do (from Jan. 1, '89) .....	12 50
Derby Line, Rock Island, Stanstead and Railway Station .....	H. A. Channell .....	1½	24	12 do .....	180 00
Deschambault and Railway Station .....	O. Perrault .....	2½	12	12 do .....	99 00
Desjardins and Railway Station .....	A. Blondeau .....	100 yds	12	12 do .....	20 00
Dewittville and Railway Station .....	J. Holiday .....	3	12	12 do .....	75 00
Dillonton and Eastman .....	F. P. Dufresne .....	3	3	12 do .....	63 00
D'Iraëli and Railway Station .....	J. E. Rheault .....	120 yds	12	12 do .....	32 00
Dixville and Railway Station .....	B. R. Baldwin .....	½	12	12 do .....	60 00
Domaine de Gentilly and Gentilly .....	D. Beauchesne .....	9	2	12 do .....	45 00
Dorval and Railway Station .....	D. Descary .....	2	12	12 do .....	100 00
Douglasburg and Napierville .....	P. Paré .....	2½	3	4 do (from Dec. 1, '88) .....	13 33
Douglstown and Wharf .....	C. Kennedy .....	1	As req	Season 1888 .....	42 00
Doyle and Sheenboro .....	J. Bush .....	12	1	12 months .....	70 00
Drummondville and Melbourne .....	D. Cusson .....	24	6	12 do .....	579 00
Drummondville and Ry Station .....	J. F. Picotin .....	1	12	12 do .....	48 00
Drummondville and St. Cyrille de Wendover .....	S. Guévremont .....	5	6	12 do .....	148 00
Duclos and Wakefield .....	S. T. Gagnial .....	15	2	12 do .....	95 00
Dudswell Centre and Ry Station .....	C. Lothrop .....	2½	12	12 do .....	200 00
Dufresne's Mills and Ste. Christine .....	A. Rondeau .....	2½	3	3 do( to June 30 '88) .....	7 50
do do .....	H. Legrand .....	2½	3	9 do (from do .....	30 00
Dufresne's Mills and S'th Durham .....	J. O. Dufresne .....	4	6	12 do .....	50 00
Dunboro, Scotsmore and Railway Station .....	F. E. Scott .....	2½ & 2	3 & 6	12 do .....	125 00
Dundee and Railway Station .....	J. Tyo .....	3	12	12 do .....	100 00
Dunham and East Dunham .....	J. Call .....	3½	6	12 do .....	115 00
Dunham, Stanbridge East and Stanbridge Station .....	J. H. Martin .....	13 & 7	6	12 do (less fine) .....	365 62
Eardley and Railway Station .....	W. H. McLean .....	1	6	12 do .....	60 00
East Angus and Linda .....	D. B. Hall .....	1½	3	12 do .....	41 75
East Angus and Railway Station .....	F. P. Buck .....	100 yd	12	12 do .....	16 00
East Angus and South Dudswell .....	E. F. Orr .....	4½	3	12 do .....	60 00
East Arthabaska and Larocheville .....	L. Boulanger .....	4	3	6 do (to Sept. 30, '88) .....	25 00
do do .....	D. Boulanger .....	4	3	6 do from do .....	30 00
East Arthabaska and St. Fortunat .....	P. Juneau .....	17	3	12 do .....	235 50
East Arthabaska and Stanfold .....	D. Luneau .....	5	6	6 do (to Sept. 30, '88) .....	97 50
do do .....	T. Roux .....	5	6	6 do from do .....	49 24
East Clifton, Sawyerville and Canaan, U.S. .....	W. W. Sawyer .....	28-6	2 & 1	12 do .....	250 00
East Farnham and Railway Station .....	C. H. Mansfield .....	1	6	12 do .....	80 00
do do .....	do .....	1	6	12 do .....	20 00
East Magdala and Lyster .....	A. Rousseau .....	4	1	12 do .....	26 00
Eastman and Railway Station .....	T. Perdue .....	1	6	6 do (to Sept. 30, '88) .....	27 00
do do .....	E. J. Esty .....	1	12	2 do 9 dys. (to Dec. 9, '88) .....	11 41

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Eastman and Railroad Station.....	S. Daignault.....	4	12	3 months 22 dys. (from Dec. 10, '88)...	8 cts. 29 36
East Templeton and Perkins.....	C. Robitaille.....	9	2	12 do	100 00
East Templeton and Ry. Station.....	P. Devost.....	1	12	12 do	110 00
Echo Vale and Railway Station.....	J. P. Jones.....	33 yds	12	12 do	18 00
Echo Vale Railway Station and Piopolis.....	J. Franceur, jr.....	8½	6	12 do	240 00
Eden Dale and St. Rémi d'Amherst.....	E. Thomas.....	39	1	3 do (to June 30, '88)...	52 50
Egypte and St. Ephrem d'Upton.....	E. Chaput.....	8½	6	12 do	168 00
Elgin Road and Railway Station.....	F. Bélanger.....	1	3	12 do	30 00
Elmside and Railway Station.....	R. Campbell.....	3½	6	12 do	125 00
Emileville and St. Pie.....	M. Gauthier, jr.....	1	6	12 do	40 00
Escuminac and Fleurant.....	I. LeBlanc.....	8	1	12 do	25 00
Esquimaux Point and Lourdes du Blanc Sablon.....	J. V. LeGresley.....	420	1	trip.	350 00
Esquimaux Point and Moisie.....	C. Ahier.....	125	1	Season 1888 89.	420 00
Etchemin and Lévis.....	E. Leclerc.....	6	12	12 months	245 00
Etchemin and St. Jean Chrysostôme.....	A. Pichet.....	3	6	12 do	112 00
Etchemin and South Quebec.....	P. E. Bourassa.....	4	6	12 do	100 00
Farnboro' and West Shefford.....	J. Enright.....	2½	3	12 do	52 00
Farnon and Railway Station.....	S. Paquette.....	22 yds	12	12 do	25 00
Farnham and Magenta.....	J. Fournier.....	5	2	12 do	50 00
Farnham and Railway Station.....	L. S. Choquette.....	½	24 & 36	12 do	119 07
Farnham and Stanbury.....	P. Beattie.....	8	2	12 do	80 00
Farrelton and Stagsburn.....	A. McDonald.....	6	1	12 do	40 00
Father Point and Rimouski.....	P. Beaulieu.....	6½	6	12 do	140 00
Fleuriau and Ste. Luce.....	A. Caron.....	18	3	12 do	180 00
Fontenelle and Gaspé Basin.....	J. Stanley.....	8	1	12 do	32 00
Fontenoy and Melbourne.....	S. Frazer.....	6	2	12 do	48 00
Fort Coulonge and Railway Station.....	J. G. Bryson.....	½	6	12 do	70 00
Fortierville and St. Jean des Chailons.....	J. B. Fortin.....	9½	3	12 do	75 00
Fortin and Matane.....	N. Fortin.....	6	1	12 do	30 00
Foster and Railway Station.....	C. B. Inglis.....	½	12	12 do	32 00
Fox River and Grande Grève.....	E. Tapp.....	20	3	12 do	285 00
Fox River and Ste. Anne des Monts.....	J. Philibert.....	107	2	12 do	1,111 41
Frampton and Ste. Hénédié.....	J. Audette.....	13	6	12 do	250 00
Frampton and Springbrook.....	J. Clark.....	4	3	12 do	60 00
Franklin Centre and Hemmingford.....	C. McGinnis.....	16	6	12 do	410 00
Franklin Centre and Huntingdon.....	J. Paulman.....	16	6	1 do (to Apr. 30, '88)...	37 08
do do do.....	F. W. Bates.....	16	6	11 do from do	385 00
Franklin Centre and Starnesboro.....	S. Huet.....	2	6	12 do	64 00
Frelighsburg and North Pinnacle.....	G. C. Chadburn.....	6½	3	12 do	89 48
Frelighsburg and St. Armand Station.....	A. Shelters.....	10	6	12 do	389 75
Frelighsburg and Sweetsburg.....	A. Pickle.....	13½	6	12 do	339 00
Frost Village and Waterloo.....	G. Moynan.....	2½	6	12 do	94 00
Fulford and Waterloo.....	L. Bourgeois.....	4	2	12 do	60 00
Galson and Gould.....	M. L. McIver.....	5½	2	12 do	42 00
Garland and St. Chrysostôme.....	F. Z. Delisle.....	4	3	12 do	48 00
Garthby Station and Railway Station.....	T. Jacques.....	½	12	12 do	73 32
Gasparine and Holton.....	F. Delage.....	3	2	12 do	34 00
Gaspé Basin and Gaspé Bay South.....	J. H. Eden.....	4½	3	12 do	60 00
Gaspé Basin and Grande Grève.....	A. G. Annett.....	15	3	12 do	230 00
Gaspé Basin and Percé.....	A. Le Gresley.....	36	6	12 do (less fine)...	1,201 00
Gaspé Basin and Wharf.....	J. Davis.....	½	As req	Season 1888.....	60 00
Genoa and St. Hermas.....	J. Gordon.....	3½	2	12 months	48 00
Georgeville and Knowlton Landing.....	D. A. Bullock.....	2	3	8 do (see water service)	52 00
Georgeville and Magog.....	C. A. Rexford.....	10	6	12 do	260 00
Georgeville and Magoon's Point.....	A. Magoon.....	5½	2	12 do	52 00
Georgeville and Stanstead Junction.....	W. H. Rediker.....	13	6	12 do	335 00
Geraldine and Stockwell.....	C. Newman.....	3½	2	12 do	26 00
Glengyle and Railway Station.....	G. Morrison.....	50 yds.	6	12 do	10 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Glen Iver and Sherbrooke.....	J. McIver.....	7½	2	12 months.....	64 00
Glen Robertson and Mongenais.....	W. T. Robinson.....	8	6	15 days (to Apr. 15, '88)...	9 08
Gould and North Hill.....	D. W. McDonald.....	4½	2	12 months.....	42 00
Gould and Red Mountain.....	C. Smith.....	5	2	12 do.....	40 00
Gould and Scotstown.....	S. Labonne.....	7½	6	12 do.....	220 00
Gould Station and Railway Station.....	R. H. Cowan.....	4	12	12 do.....	40 00
Granboro and Granby.....	G. Vittie.....	6	3	12 do.....	114 00
Granby and Milton.....	E. Caroline.....	9	6	12 do.....	299 00
Granby and Railway Station.....	S. Page.....	3	12	12 do.....	75 00
Granby and Shefford Mountain.....	E. Deslauriers.....	8	3	12 do.....	150 00
Grande Baie and L'Anse St. Jean.....	R. Gagnon.....	54	2	12 do.....	230 00
Grande Baie and St. Urbain.....	A. Fortin.....	63	3	5 do (from Nov. 1, '88).....	222 08
Grand Casapedia and New Richmond.....	W. Robertson.....	4½	2	12 do.....	80 00
Grandes Coudées and Jersey Mills.....	M. Cahill.....	14	3	12 do.....	180 00
Grande Ligne and Mount St. Nicholas.....	S. Boissonneault.....	2½	3	11 do (to Feb. 28, '89).....	36 66
Grand Métis and Métis Point.....	W. E. Page.....	6	6	3 do (to Sept. 15, '88).....	59 25
Grand Métis and Railway Station.....	do.....	3	12	12 do.....	150 00
Grande Mère and Lac à la Tortue.....	A. Scott.....	2½	6	12 do.....	60 00
Grande Mère and Ste. Flore.....	T. Maheux.....	4	6	9 do (from July 1, '88).....	103 50
Grandes Piles and La Tuque.....	P. Chandonnet.....	72	1	12 do.....	237 00
Grandes Piles and Ste. Flore.....	T. Maheux.....	7	6	3 do (to June 30, '88).....	34 50
Grand River and Wharf.....	T. A. Boudin.....	4	Asreq	Season, 1888.....	54 00
Grand St. Esprit and Ste. Monique.....	J. A. Pinard.....	2½	3	12 months.....	50 00
Green River and St. Antonin.....	L. April.....	3½	6	12 do.....	60 00
Green River and St. Modeste.....	C. Chouinard.....	5	6	12 do.....	115 00
Greenshields and St. Cyr.....	R. E. Dyson.....	4½	1	12 do.....	25 00
Green Mount and Thorne Centre.....	G. McDowell.....	6	3	12 do.....	78 00
Grenville and Lost River.....	A. McPhee.....	19	2	12 do.....	178 00
Grenville and Railway Station.....	J. A. Williamson.....	1½	6	12 do.....	48 00
Grindstone Island and House Harbor, &c.....	J. Patton.....	6	1	9 do (from July 1, '88).....	36 00
Grondines and Railway Station.....	L. Côté.....	3½	12	12 do.....	192 00
Hadlow Cove Road and St. David de Lévis.....	J. Halle.....	1	6	12 do.....	50 00
Hallerton and Hemmingford.....	T. Kenny.....	4½	3	12 do.....	75 00
Halverson and Masham Mills.....	J. Moore.....	11	2	12 do.....	100 00
Hardwood Flat and Robinson.....	S. W. Tracy.....	3½	2	12 do.....	26 00
Harvey Hill Mines and West Broughton.....	L. E. Berthelot.....	3	6	6 do (to Sept. 30, '88).....	40 00
do do.....	J. McGee.....	3	6	6 do from do.....	40 00
Hathaway and Railway Station.....	W. Cosgrove.....	1½	6	12 do.....	50 00
Hatley and Railway Station.....	B. Martin.....	3½	6	12 do.....	125 00
Heathton and South Barnston.....	W. W. Heath.....	1½	6	12 do.....	40 00
Hebertville and Metabetchouan.....	E. Girard.....	12	3	10 do (from June 1, '88, less fine).....	306 75
Hebertville and St. Joseph d'Alma.....	C. Hebert.....	12	6	10 do (from June 1, '88).....	316 67
Hedleyville and St. Roch de Québec.....	J. DeBlois.....	12	12	12 do.....	62 60
Helena and White's Station.....	P. Tallon.....	4½	6	7 do (to Oct. 31, '88).....	145 83
do do.....	T. Salen.....	4	6	5 do from do.....	61 25
Hemison and St. Malachie.....	T. Smith, jr.....	3	1	12 do.....	25 00
Hemmingford and Roxham.....	W. C. Kingsbury.....	6	2	12 do.....	35 00
Henrysburg and Lacolle.....	G. Giroux.....	8½	3	12 do.....	120 00
Henrysville and Stanbridge Station.....	P. Girard.....	8	6	12 do.....	189 00
Heyworth and Railway Station.....	H. McVeigh.....	1	6	12 do.....	60 00
High Rock and Notre Dame du Laus.....	D. Vincent.....	29	1	12 do.....	256 50
High Rock and Poltimore.....	J. H. Bonsall.....	6	3s. 2w.	12 do.....	75 00
Hochelaga and Longue Pointe.....	N. Richard.....	3½	6	10 do (from June 1, '88).....	208 33
Hochelaga and Montreal.....	J. H. Brown.....	2½	18	12 do.....	459 52
Holland's Mills and Chalifoux Point.....	G. Gowan.....	2½	3	12 do.....	60 00
Holton and Ste. Clothilde de Chateauguay.....	C. B. Bergevin.....	2	3	12 do.....	34 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
House Harbor and Magdalen Islands	P. Turnbull.	30	1	Season, 1888.	26 25
Howick and Railway Station	L. Parent.	4	12	12 months	49 00
Howick and St. Chrysostôme	T. Hebert.	9	6	12 do	240 00
Hull and Ottawa.	B. D'Arpentigny.	2	12	6 do (from Oct. 1, '88)	50 00
Hull and Street Letter Boxes	M. LeBlanc.		12	10 do (from June 1, '88)	120 40
Hunterstown and Louiseville.	T. Marineau.	17	6	12 do	370 00
Huntingdon and Railway Station.	J. Paulman.	1	12	12 do	70 00
Inverness and Kinneair's Mills.	J. Quan.	9½	3	12 do	115 00
Inverness and Leeds.	J. McKeage.	12	6	12 do	355 00
Inverness and New Ireland.	J. Jamieson.	17	3	12 do	178 00
Iron Hill and Sweetsburg.	W. Moffat.	8	3	12 do	120 00
Island Brook and New Mexico.	W. H. Taylor.	4	3	12 do	52 00
Isle aux Coudres and St. Paul's Bay	J. Dufour.	9	2	12 do	340 00
Isle aux Coudres and Wharf.	E. Dufour.	6	2	Season, 1888.	78 75
do do	T. A. Pelletier.			Special trips.	3 00
Isle aux Grues and Montmagny.	N. Lebel.	6	2	12 months	225 00
Isle Bizard and Ste. Geneviève	E. Roussin.	½	6	12 do	50 00
Isle Perrot and Ste. Anne de Bellevue.	J. Montpetit.	5½	6	12 do	156 00
Isle Verte and Notre Dame de L'Isle Verte.	T. Fraser.	6	1	12 do	50 00
Isle Verte and Railway Station.	L. A. Bertrand.	1	12	12 do	80 00
Isle Verte and St. Paul de la Croix.	A. Boucher.	10	2	12 do	100 00
Jersey Mills and Marlow.	M. Cahill.	13	3	12 do	230 00
Johnville and Railway Station.	C. Smith.	4	12	12 do	28 00
Joliette and Railway Station.	J. Mirault.	8	12	12 do	544 00
Joliette and St. Liguori.	O. Robichaud.	9	6	6 do (to Sept. 30, '88).	73 50
do do	M. Riopelle.	9	6	6 do from do	112 50
Joliette and Ste. Mélanie.	L. Belleville.	14	6	12 do	285 00
Joliette and St. Paul d'Industrie.	F. Perreault.	4	6	12 do	72 00
Joynt and North Wakefield.	R. Joynt.	9	2	12 do	105 00
Kamouraska and Railway Station.	J. B. Pelletier.	5	12	12 do	300 00
do do	N. Pelletier.	5	12	12 do	150 00
Katevale and North Hatley.	J. O. Paradis.	4½	3	4 do 26 dys (from Nov. 5, '88).	28 34
Katevale and Railway Station.	E. Lemay.	1½	6	7 do 4 dys (to Nov. 4, '88).	33 32
Kazubazua and Lake St. Mary.	X. B. Léveillé.	5	1 & 2	12 do	75 00
Kazubazua and Venosta.	J. McCaffrey.	7	1	12 do	50 00
Keith and Robinson.	J. McLennan.	8	3	12 do	96 00
Kelso and Trout River Ry. Station.	D. McFarlane.	3½	6	12 do	144 00
Kildare and St. Alphonse.	G. E. Trudeau.	12	3	12 do	156 00
Kingsy Falls and Lorne.	M. Morin.	4	12	12 do	230 00
Kingsy Falls and Robson.	H. Gagnon.	7	2	12 do	60 00
Kinneair's Mills and Leeds.	H. F. Goff.	9	3	12 do	160 00
Knowlton and Railway Station.	S. N. Courtney.	4	24	12 do	72 00
Knowlton and St. Etienne de Bolton	L. Poulin.	9	3	12 do	135 00
La Baie and Nicolet.	T. Vigneau.	9	6	12 do	249 00
La Baie and St. Zéphirin.	do	8	6	12 do	220 00
La Baie and Yamaska.	do	24½	6	12 do	750 00
Labarre and Métabetchouan.	E. Girard.	12	3	2 do (to May 31, '88).	32 50
Labarre and St. Joseph d'Alma.	C. Hebert.	12	3	2 do do	33 33
La Beauce and Railway Station.	J. B. Gregoire.	4	12	12 do	50 00
La Beauce and St. Elzéar.	J. Racine.	3	6	12 do	80 00
L'Acadie and Railway Station.	G. Tremblay.	1½	12	8 do (from Aug. 1, '88)	34 66
L'Acadie and St. Jacques le Mineur	E. F. Poirier.	6	6	12 do	160 00
Lachenaie and Terrebonne.	A. Lapierre.	4½	6	12 do	144 00
Lachevrotière and Railway Station.	V. Portelance.	1	6	12 do	12 00
Lachine and Lachine Rapids.	D. Dunberry.	3½	6	6 do (to Sept. 30, '88).	65 00
Lachine Locks and Railway Station.	F. X. Gariépy.	1½	12	12 do	60 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Lachine Rapids and Ry. Station.	D. Dunberry	2	6	6 months (from Oct. 1, '88)	50 00
Lachine Station and Letter Box.	J. O'Flaherty		12	12 do	30 00
Lachute and Lachute Mills.	J. Fish	1	12	12 do	62 00
Lachute and Lakefield.	F. Rogers	9	2	12 do	74 00
Lachute and Railway Station.	G. L. Meikle	1	12	12 do	36 00
Lachute and Shrewsbury.	J. Chambers	14½	2	12 do	103 00
Lac Masson and St. Jérôme.	M. Piché	22	3	12 do	250 00
Lac Masson and Ste. Lucie de Doncaster	N. Forget	10	3	12 do	156 00
Lacolle and Odelltown.	W. D. McCallum	3	3	6 do (to Sept. 30, '88).	24 00
do do	J. Clarkson	3	3	6 do from do	24 00
Lacolle and St. Bernard, Sud.	J. B. Bédard	2	3	12 do	30 00
Lac Rond and Namur.	B. Corbeil	7	1	12 do	40 00
La Décharge de la Rivière à l'Ours and la Fourche des Chemins.	J. Sheehy	6	1	12 do	36 00
Lac Aylmer and Lake Weedon.	A. Gagnon	12	6	12 do	179 00
Lac Beauport and Quebec.	P. Brown	13	2	12 do	150 00
Lac Etchemin and Langevin.	L. Mercier	12	6	12 do	290 00
Lac Etchemin and Ste. Rose de Watford.	A. Chabot	12	1	12 do	50 00
Lac Etchemin and Standon.	J. Fortin	12	6	12 do	270 00
Lac St. Joseph and Railway Station.	R. Sisson	4	12	12 do	24 00
Lac Témiscamingue and Mattawa.	E. J. Smith	136 s., 140 w.	1	12 do	1,363 64
Lake Témiscamingue and North Témiscamingue.	A. McBride	26	1	12 do	200 00
Lake Weedon and Railway Station.	F. Brière	60 yds	6	12 do	24 00
Lamartine and Railway Station.	P. Cloutier	3	4	12 do	50 00
Lambton and Railway Station.	L. Langlois	14	6	12 do	375 00
Lambton and Stornoway.	E. Bélanger	9	6	12 do	212 00
Lambton and Valletort.	N. Boutin	8	6	12 do	194 48
Landreville and Ormstown.	V. Brault	4	2	12 do	50 00
Land Villa and Railway Station.	C. Lavallé	2	6	12 do	48 00
L'Annonciation and Nominingue.	V. Martineau	12	1	12 do	80 00
Lanoraie and Railway Station.	P. Delisle	6	6	6 do (to Sept. 30, '88).	44 76
do do	N. Delisle	6	6	6 do from do	44 74
L'Anse à Giles and Railway Station.	J. F. Giasson	2	6	12 do	76 25
L'Anse à la Cabane & Magdalen Islds.	W. Cormier	8½	1	Season 1888.	40 00
L'Anse au Foin and Tremblay.	E. Harvey	8	4	4 months (to July 31, '88)	52 00
do do	F. Tremblay	8	4	8 do from do	104 00
La Petite Rivière, Que., & Ry. Station.	A. Roy	½	6	12 do	35 00
La Petite Rivière St. François and St. Cassien des Caps.	P. Bouchard	7	6	12 do	200 00
La Plaine and Railway Station.	C. Gauthier	1½	12	12 do	12 00
Laprairie and Railway Station.	A. Lamarre	¾	12	2 do (from Feb. 1, '89)	11 66
La Présentation and St. Hyacinthe.	H. Auger	6	6	12 do	200 00
L'Assomption and Railway Station.	E. Archambault	4½	12	2 do (to May, 31, '88).	41 66
L'Assomption and St. Sulpice.	J. Royal	5	6	12 do	175 00
Laurentides and Railway Station.	J. M. V. Latour	1	12	12 do	75 00
Laurentides & St. Calixte de Kilkenny	D. Thounin	10	3	9 do (to Dec., 31, '88).	112 50
do do	P. Chartrand	10	3	3 do from do	30 00
Laurel and Lost River.	M. McCluskey	6	1	12 do	36 00
Launon and Lévis.	H. Martin	2	12	12 do	100 00
Launon and St. Joseph de Lévis.	E. Ruel	1½	12	12 do	140 00
Laval and Quebec.	T. Keough	17	2	12 do	100 00
Lavaltrie and Railway Station.	A. Laviolette	8	6	12 do	192 00
Lawrenceville and North Stukely.	C. Colin	4	3	12 do	100 00
Lazy Brogan and New Richmond.	R. Brash	45	6	1 do 8 dys (to July 28, '88)	208 00
Leeds and St. Sylvester.	J. Craigie	9	3	12 do	110 00
Lennoxville and Millby.	A. Aldrich	5	6	12 do	124 00
Lennoxville and Railway Station.	E. W. Abbott	11	24	12 do	101 00
Lennoxville—C. P. Ry. Station and G. T. Ry. Station.	do	25 yds	12	4 do 11 days (from Nov. 21, 1888).	18 00
Leopold and Shrewsbury.	J. Thompson	6	2	12 do	60 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
L'Epiphanie and Railway Station.	E. Leblanc	3	12	12 months	100 00
do do	do	4	6	4 do 3 dys (to Nov. 18, 1888)	6 20
L'Epiphanie and St. Jacques	G. Forest	12½	6	12 do	325 00
L'Epiphanie and Ste. Julienne	T. Belle	18½	6	12 do	480 00
Les Eboulements and Settrington	T. Audet	8	2&3	12 do	75 61
Les Eboulements and Wharf.	J. Dufour	3	3	Part of season 1888	38 00
do do	F. Tremblay	3	As req	Balance of season 1888	232 50
Les Escoumains and Sault au Cochon	J. Boissonneault	35	3	12 months	675 00
Les Escoumains and Tadousac	F. Brisson	27	4	12 do (less fine)	478 00
Lévis and Quebec.	H. Martin	1	12&18	12 do	387 50
do do	do			Special service	18 00
do do	E. Guay			Special trips	100 00
do do	A. Vézina			do	4 00
Lévis and Grand Trunk Ry. Station	F. Bégin			do	18 00
do do	J. Rouleau			do	1 00
Lévis and Intercolonial Ry. Station	H. Martin	4	24	12 months	90 00
do do	A. Bilodeau			Special trip	0 50
do do	F. Bégin			do	0 50
Lévis & Quebec Central Ry. Station.	F. Bégin	4	12	12 do	45 00
Lévis and St. Michel.	M. Guay	15	6	12 do	245 00
Lévis & South Quebec Ry. Station.	J. Rouleau			Special trips	3 50
Lévis—G. T. Ry. Station & Q. C. Statn	do			do	0 50
Lévis, I. C. Ry. Statn. & G. T. Ry. Statn	D. Pouliot			do	0 50
Lévis and Street Letter Boxes	M. Gagnon		18	12 months	331 25
Lévis and Sub-Office	E. Bédard	3	12	12 do	200 00
Lévis and Three Rivers	P. Genest	92	6	12 do	2,580 00
Lineboro' and Railway Station	J. Wood	4	12	12 do	16 00
Linier and Metgermette	J. Morin	13½	2	12 do	97 00
L'Islet and Railway Station	M. E. Ballantyne	24	12	12 do	140 00
do do	do	24	12	3 do (to June 30, '88)	35 00
L'Islet Station and St. Cyrille	J. B. Cloutier	7½	2	3 do do	26 00
Longueuil and Montreal	P. Racine			Special trips	5 00
Longueuil and Railway Station	G. Brissette	1	24	6 mths. 15 dys (to Oct. 15 '88)	75 27
do do	do	3	12	5 m. 16 dys. from do	34 18
Lorette and Railway Station	L. Richard	2	12	12 months	200 00
Lorne and Railway Station	E. D. Adams	200 y's	12	12 do	40 00
Lotbinière and Rivière Boisclair	J. N. F. Lemay	6	3	12 do	75 00
Louiseville and Nancy	R. Caron	6	2	9 do (from July 1, '88)	45 00
Louiseville and Railway Station	P. Lefebvre	1½	12	12 do	99 00
Louiseville and Ste. Ursule	P. Picotte	5½	6	12 do	220 00
Lourdes and Somerset	T. B. G. Nadeau	8	1	12 do	50 00
Low and Maniwaki	W. Brooks	54	3	12 do	1,700 00
Low, Maniwaki & North Wakefield	do	54 & 11	6 & 3	12 do	1,900 00
Luskville and Railway Station	F. Desbiens	1	6	12 do	50 00
Maddington Falls and Ry. Station.	M. Crochetière	4½	6	12 do	80 00
Magog and Railway Station	L. N. Allard	4	12	12 do	100 00
Malmaison & Notre Damede Stanbgd	I. Hebert	3	6	12 do	120 00
Maniwaki and Montcerf	P. Paradis	15	1	12 do	95 00
Maniwaki and River Joseph	T. White	8	1	12 do	54 00
Mansonville and Railway Station	W. B. Manson	2½	6	12 do	125 00
Mansonville and Vale Perkins	C. H. Gordon	5½	3	12 do	60 00
Mansonville R. Statn. & West Potton	M. L. Elkins	3	3	12 do	60 00
Maple Grove and Richardville	J. Neagle	7	3	12 do	96 00
Maple Grove, Ste. Sophie de Megan- tic and Somerset	T. Dubois	20	3	12 do	250 00
Maple Grove and Wolfstown	R. Boulanger	6½	2	12 do	75 00
Maple Leaf and Sawyerville	W. G. Planche	3½	3	12 do	60 00
Maple Ridge and Railway Station	G. Morrison	1	12	12 do	75 00
Marbleton and Railway Station	O. Côté	3½	12	12 do	250 00
Maria and Maria East	J. Beijold	5	3	12 do	75 00
Marlow and U. S. Boundary Line	D. M. Cathcart	14½	3	9 do (to Dec. 31, '88)	112 50
do do	G. D. Thompson	14½	3	3 do from do	30 00
Marsden and Notre Dame des Bois	C. Demers	14	3	12 do	225 00
Marsden and Railway Station	J. D. Morrison	1	12	12 do	24 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Marsden and Whitwick .....	J. R. McDonald.	3	2	12 months.	36 00
Maryland and Railway Station .....	J. G. Bell	40 ft.	6	4 do (from Dec. 1, '88)	3 33
Mascouche and Mascouche Rapids .....	G. Alexander.	3½	3	12 do	75 00
Mascouche and Railway Station .....	P. Robert	1½	6	12 do	79 00
Masham Mills and Wakefield .....	P. Bertrand	7	1	12 do	50 00
Masson and Railway Station .....	U. LaBrosse			Special service	1 40
Mastigoche & St. Gabriel de Brandon .....	J. O. Henault	9	1	12 months	36 00
Matane and Railway Station .....	W. Pelletier	32	6	12 do	494 00
Matane and Ste. Anne des Monts .....	J. Labrie.	57	3	12 do	790 00
Matapedia and Railway Station .....	D. Fraser	200 y's	12	1 do (to April 30, '88).	3 75
do do	E. Dorion	200 y's	12	11 do from do	41 25
Matapedia and Runnymede .....	J. Lawlor	12	1	12 do	70 00
Melbourne and New Rockland .....	J. Broderick	7	6	12 do	250 00
Melbourne and Richmond Station .....	J. Largie.	2	12	12 do	100 00
Melbourne and Upper Melbourne .....	N. Coburn	½	3	12 do	100 00
Melbourne and Waterloo .....	S. Jamieson	33	3	12 do	500 00
Metabecheouan and St. Gédéon .....	T. Duchaine	8	3 & 6	12 do	262 50
Methot's Mills and Ste. Agathe .....	J. Fournier	8	6	3 do (to June 30, '88).	45 00
do do	L. Ratté	8	6	9 do from do	135 00
Methot's Mills and St. Flavien .....	J. Fournier	4	6	3 do (to June 30, '88).	31 25
do do	L. Ratté	4	6	9 do from do	93 75
Mille Isles and St. Jérôme .....	T. Campbell	12	2	3 do (to June 30, '88).	30 00
do do	T. Taylor	12	3	9 do from do	91 50
Millstream and Railway Station .....	J. P. Lavoie	10 yds	12	11 do 11 days (to Mar. 11, '89)	17 00
Minton and North Hatley .....	A. E. Fish	2½	3	12 do	52 00
Mirabel and St. Hermas Station .....	A. Lamarche	1½	3	1 do (to Aug. 31, '88).	3 00
do do	do	1½	6	7 do from do	32 66
Mongenais, Ste. Justine de Newton and Railway Station .....	J. Marleau	3 & 1¼	6 & 12	11 do 15 dys. (from Apr. 16, '88).	180 16
Mont Carmel and Railway Station .....	R. Lavoie	3	4	12 do	65 00
Montebello and Railway Station .....	C. Major	¼	6	12 do	40 00
Montfort and Morin Flats .....	M. Boulaire	6	2	12 do	52 00
Montmagny and Railway Station .....	L. P. Gendreau.	1	12	12 do	120 00
do do	C. Larcher	1	12	12 do	100 00
Montmorency Falls and Quebec .....	L. Lapointe	8	6	12 do	280 00
Montreal and Mount Royal Vale .....	O. F. Lilly	4½	12	7 do (from Sep. 1, '88)	140 00
Montreal and Notre Dame de Grâce .....	do	3½	12	5 do (to Aug. 31, '88).	75 00
Montreal and Outremont .....	B. T. Cooke	3½	6	12 do	40 00
Montreal and Canadian Pacific Railway Station .....	C. A. Dumaine	½	60 & 96	12 do	2,165 85
Montreal Receiving Houses and Street Letter Boxes .....	P. Kennedy		49	12 do	3,978 82
Montreal and St. Eustache .....	H. Munier	21	6	12 do	1,000 00
Montreal and St. Gabriel de Montreal .....	P. Doyle	2	18	12 do	250 00
Montreal and St. Léonard de Port Maurice .....	J. Gervais	8	6	8 do (from Aug. 1, '88)	186 66
Montreal and Sault au Récollet .....	F. St. Vincent.	7	6	12 do	150 00
Montreal and Varennes .....	H. Dubois.	15	6	5 do 17 dys. (from Oct. 15, '88)	277 17
Mont St. Nicholas and Ry. Station .....	T. Girard	24 yds	12	1 do (from Mar. 1, '89)	2 00
Montreal and Wharf .....	C. A. Dumaine	½	12	Season 1888	118 30
Moore's Station and Railway Station .....	P. C. Moore	½	12	12 months	12 00
Morehead and Railway Station .....	W. Clarke	1	12	12 do	10 00
Morin Flats and St. Adolphe de Howard .....	H. Paquet	9	1	12 do	45 00
Mount Johnson and Versailles .....	T. Monquin	4	6	12 do	150 00
Murray Bay and St. Agnes .....	J. Savard	9	3	12 do	69 72
Murray Bay and St. Paul's Bay .....	A. Bouchard	30	6	12 do	1,170 00
Murray Bay and Tadousac .....	J. Gaudreault	42	4	12 do	660 00
Murray Bay and Wharf .....	F. Tremblay	3	As req	Season 1888	160 00
Murray Bay River & St. Paul's Bay .....	A. Côté	37	6	6 months (to Sep. 30, '88)	365 00
Napierville and Stottville .....	F. Hetier	7	6	12 do	140 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Neigette and Ste. Flavie Station...	N. Beaulieu	6½	3	12 months	80 00
New Armagh and St. Sylvester...	J. Orr	4½	2	12 do	50 00
Newbois and Scott Junction...	C. Genest	9	6	12 do	300 00
New Carlisle and Wharf	T. Caldwell	3	As req	Season 1888	55 00
New Glasgow and Railway Station.	F. Langlois.	4	12	12 months	52 00
Newport and Paspébiac	W. P. Ramier	32	6	12 do (less fine)	1,076 00
Newport and Percé	N. G. Tremblay.	35	6	12 do (less fines).	1,289 20
Newport and Wharf	J. Jessop, sr.	½	As req	Season 1888	55 00
Newport Point and Wharf.	do	½	As req	do	47 00
Nicolet and St. Grégoire.	J. Page.	8	12	12 months	374 00
Nicolet and Ste. Monique	H. Beaudry.	8	6	12 do	150 00
Normandin and St. Félicien.	N. Picard.	20	3	12 do	195 00
North Georgetown and Ry. Station.	L. Turcot.	½	6	12 do	40 00
North Hatley and Railway Station.	B. Le Baron	½	6	12 do	30 00
North Nation Mills and Ry. Station	D. Landriau.	3½	6	12 do	100 00
North Onslow and O'Connell	J. Murphy.	7	2	7 do 8 dys. (from Aug. 24, '88)	48 26
North Onslow and Quyon	W. Richardson.	7	3	12 do	100 00
North Sutton and West Brome	O. Sweet	2	3	12 do	50 00
North Wakefield and Ottawa.	R. Haste	26½	6	12 do	509 60
North Wakefield and Rupert.	R. Joynt.	5	2	12 do	80 00
Norton Creek and St. Rémi	J. B. Boyer.	9½	6	9 do (to Dec. 31, '88).	187 50
do do	do	9½	6	3 do from do	74 50
Notre Dame des Anges & St. Ubalde	X. Marcotte	11	3	12 do	94 00
Notre Dame de Rimouski & Ry. St'n	E. Drapeau.	½	6	3 do (to June 30, '88).	10 00
do do	A. Parent	½	6	9 do from do	30 00
Notre Dame du Laus and St. Gérard de Montarville.	B. Grenier	37	1	12 do	240 00
Notre Dame du Portage and Railway Station	A. Nadeau	7	6	12 do	139 00
Old Lake Road and Ry. Station...	P. Caron	½	6	12 do	25 00
Ormstown and Railway Station...	T. H. Paling.	½	12	12 do	96 00
Otter Lake and Shawville	C. R. Morrison.	24	3	12 do	275 00
Otter Lake and Thornby	J. Hill	7	2	12 do	87 00
Painchaud and Somerset.	J. O. Huard.	4	3	12 do	75 00
Papineauville and St. Amedée.	R. Robinson.	7½	2	12 do	52 00
Paspébiac and Wharf.	P. D. Loisel.	3	As req	Season 1888.	56 50
Pauline and St. Césaire	A. Garceau.	5	2	4 months (to July 31, '88)	20 00
Percé and Wharf.	T. E. Flynn.	½	As req	Season 1888.	55 50
Pierreville and St. Elphège.	J. Boivin	7	6	12 months	190 00
Philipsburg and St. Armand Railway Station	E. Best.	2	12	12 do	245 00
Pointe au Chêne and Ry. Station.	T. Mathews	33 yds	12	12 do	30 00
Pointe aux Orignaux & River Ouelle	J. B. Hudon.	2½	6	12 do	50 00
Pointe aux Trembles and Quebec	F. Voyer.	22	6	12 do	598 00
Pte. aux Trembles & R. des Prairies	F. Roy	6	6	12 do	172 50
Pointe Bleue and Roberval.	L. E. Otis.	5	3	12 do	85 00
Pointe Claire and Railway Station.	F. Lanthier.	1	6	12 do	38 99
Pointe du Lac and Railway Station	A. Biron	4	12	12 do	80 00
Pointe Gatineau and Ry. Station.	T. Gagnon.	1½	12	12 do	120 00
Pointe Séche and St. Paschal.	A. Desjardins.	11	3	12 do	120 00
Point St. Peter and Wharf.	P. Bond.	½	As req	Season 1888.	44 40
Pont de Maskinongé & Ry. Station	A. Lafrenière.	3	12	12 months	50 00
Pont de Maskinongé and St. Justin	E. M. Chapdelaine.	5	6	12 do	240 00
Pont Rouge and Railway Station.	A. Bussière.	3	12	6 do (to Sept. 30, '88).	50 00
do do	J. Denis.	3	12	6 do from do	44 00
Pont Viau and Pont du Sault.	T. Bélanger.	5	6	12 do	48 00
Portage du Fort and Ry. Station	D. M. Rattray	7	18	12 do	312 00
Port Daniel and Wharf.	J. Lawrence.	5	3	Season 1888.	64 80
Port Lewis and St. Anicet.	S. Dupuis	5	3	12 months	74 00
Portneuf and Railway Station.	E. Marcotte	1	12	12 do	100 00
Quebec and Railway Stations	C. Hough.	½	12 & 18	12 do	1,172 77



DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Quebec, St. François and St. Jean d'Orléans.	A. Maranda.	27	6	12 months.	495 00
Quebec, St. John Suburb and Street Letter Boxes.	M. Martel.	24	30	12 do	315 00
Quebec and St. Sauveur de Quebec.	J. L. Saucier.	14	31	12 do	646 36
Quebec and St. Tite des Caps.	J. Tremblay.	33	6	12 do	1,140 00
Quebec and Spencer Cove.	A. Flanagan.	5	12	12 do	220 00
Quebec and Wharf.	C. Hough.	4	12 & 24	Season 1888.	1,659 37
do	J. Chanbesten.	4	12	do	120 00
Quebec and Stoneham.	J. Corrigan.	17	2	12 months.	145 00
Quinnville and Templeton.	J. Gahagan.	6½	1	12 do	40 00
Quyon and Railway Station.	W. Richardson.	1	6	12 do	75 00
Radford and Shawville.	J. A. Armstrong.	3	3	12 do	50 00
Randboro' and Sawyerville.	L. Munn.	2	6	12 do	40 00
Rapides des Joachims and Rowanton.	A. McDougall.	20	3	12 do	350 00
Rawdon and St. Liguori.	P. O. Morin.	9	6	6 do (to Sept. 30, '88).	99 50
do do	E. Rowan.	9	6	6 do from do	73 50
Reedham and Robertson Station.	J. Savage.	4	1	12 do	30 00
Repentigny and St. Paul L'Ermite.	A. Perrault.	2	6	12 do	80 00
Ricards and St. Herménégilde.	L. Létourneau.	1	2	12 do	30 00
Richmond East and St. Cyr.	R. E. Dyson.	6½	1	3 do (from Jan. 1, '89)	12 50
Richmond East and Sydenham Place.	J. Grégoire.	15	6	12 do	375 00
Rigaud and St. Rédempteur.	B. Lalonde.	64	3	12 do	84 00
Rimouski and Railway Station.	L. Lavoie.	4	12	12 do	107 66
Rimouski and Ste. Blandine.	A. Prémont.	9	1	9 do (to Dec. 31, '88).	37 50
do do	P. Proulx.	9	2	3 do from do	15 00
Ripon and Thurso Railway Station.	M. St. Pierre.	18	6	8 do (to Nov. 31, '88).	200 00
do do	G. Dalaire.	18	6	4 do from do	133 33
Rivière à l'Ours and Tremblay.	J. B. Gaudin.	18	1	12 do	78 00
Rivière à Pierre and Railway Station.	L. St. Onge.	120 yd	12	6 do (to Sept. 30, '88).	10 00
do do	J. S. Murphy.	120 yd	12	6 do from do	10 00
Rivière aux Pins and St. Gabriel Station.	F. Armstrong.	64	2	12 do	52 00
River David and Railway Station.	O. Houde.	4	12	12 do	60 00
Rivière du Loup and Edmundston.	J. Turner.	79	6	12 do	3,000 00
Rivière du Loup and Ry. Station.	M. L. Marchand.	14	48	12 do	761 28
Rivière du Loup and Wharf.	L. T. Pinyer.	24	As req	Season 1888.	60 00
River Gilbert and River Gilbert Gold Mines.	J. L. Lachance.	34	6	3 months (to June 30, '88).	35 00
do do	J. Quirion.	34	6	9 do from do	105 00
Rivière Noire and Railway Station.	A. E. Beauchemin.	10 yds	12	12 do	20 00
Rivière Noire and St. Valère de Bulstrode.	do	44	6	12 do	160 00
Rivière Ouelle and Railway Station.	N. Anctil.	5	12	12 do	200 00
Rivière St. Marguerite and Tadousac.	L. Dechenes.	21	1	6 do (to Sept. 30, '88).	65 00
do do	J. Brisson.	21	1	6 do from do	62 50
Rivière Trois Pistoles and Railway Station.	J. G. Seton.	4	12	12 do	50 00
Robertson Station and Sacré Cœur de Marie.	J. Vallière jr.	6	6	11 do (from May 1, '88).	122 83
Robertson Station and Ry. Station.	A. Talbot.	60 yds	12	12 do	25 00
Roberval and St. Prime.	S. Maurice.	10	3	3 do (to June 30, '88).	40 00
do do	J. Fradet.	10	6	9 do from do	240 00
Robinson and Railway Station.	L. Pope.	4	12	12 do	60 00
Rock Forest and Railway Station.	S. Simpson.	4	6	4 do 26 dys. (from Nov 5, '88).	12 95
Rock Forest and Suffield.	do	13	3	12 do	52 00
Rougemont and Railway Station.	J. Bachelder.	4	12	12 do	52 00
Roxton East and Roxton Falls.	E. Dalphe.	5	2	11 do (from May 1, '88).	36 66
Roxton Pond and South Roxton.	A. Naiser.	34	6	12 do	90 00
Russelltown and Vicars.	C. Struthers.	2	6	6 do (to Sept. 30, '88).	30 00
Ste. Adélaïde de Pabos and Wharf.	R. Manger.	4	As req	Season 1888.	56 00
Ste. Adèle and Ste. Agathe.	R. Charbonneau.	12	6	12 months.	230 00
Ste. Adèle and St. Jérôme.	E. Beauchamp.	17	6	9 do (to Dec. 31, '88).	337 50
do do	G. Valiquette.	17	6	3 do from do	112 50

## DETAIL of all payments for Mail Transportation in Quebec, &amp;c.—Continued.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
St. Adrien and Wotton.....	F. X. Charland.....	8	3	12 months.....	90 00
St. Agapit and Railway Station.....	J. Paquet.....	1	12	12 do.....	75 00
Ste. Agathe and St. Jovite.....	J. Robert.....	19	3	12 do.....	450 00
Ste. Agnès de Dundee and Railway Station.....	T. Rowley.....	1	6	12 do.....	48 00
St. Aimé and St. Hyacinthe.....	T. Mathieu.....	23½	6	3 do (to June 30, '88).	125 00
do do.....	A. Donais.....	23½	6	9 do from do.....	375 00
St. Aimé and Yamaska.....	H. Salvas.....	6½	6	12 do.....	135 00
St. Alban and Railway Station.....	A. Frenette.....	5	6	12 do.....	104 00
St. Alexandre de Kamouraska and Railway Station.....	R. Fortin.....	400 yd	12	12 do.....	40 00
St. Alexandre d'Iberville and Railway Station.....	D. Gagnon.....	1	12	12 do.....	72 00
St. Alexandre and St. Eleuthère.....	A. Gagné.....	24	1	6 do (to Sept. 30, '88).	48 00
do do.....	A. Rousseau.....	24	1	6 do from do.....	46 00
St. Alexis des Monts and St. Paulin.....	J. B. Drolet.....	10	3 & 6	12 do.....	320 82
St. Alphonse and Ste. Béatrix.....	E. Riopel.....	4	3	12 do.....	75 00
St. Alphonse and St. Côme.....	A. Labine.....	12	2	12 do.....	112 00
St. Anaclet and Railway Station.....	O. Couture.....	2½	6	6 do (to Sept. 30, '88).	25 00
do do.....	C. Rousseau.....	2½	6	6 do from do.....	23 50
St. André and Railway Station.....	E. Michaud.....	4½	8	12 do.....	200 00
Ste. Angèle de Laval and Railway Station.....	M. B. Désilets.....	4	12	12 do.....	24 00
Ste. Angèle de Monnoir and Railway Station.....	B. Loisele.....	1	12	12 do.....	48 00
St. Anicet and White's Station.....	E. Choquette.....	10	6	12 do.....	242 00
Ste. Anne de Bellevue and Railway Station.....	A. St. Denis.....	1	6	2 do 29 days (to Sept. 30, '88).	7 70
Ste. Anne de la Pêrade and Railway Station.....	J. U. Marcotte.....	½	12	12 do.....	105 00
Ste. Anne de la Pêrade and St. Prosper.....	J. Cossette.....	7	6	12 do.....	108 00
Ste. Anne la Pocatière and Railway Station.....	J. O. Ouellet.....	1	12	12 do.....	211 25
Ste. Anne la Pocatière and St. Onésime.....	C. Dubé.....	6	3	9 do (to Dec. 31, '88).	44 25
do do.....	C. Ouellet.....	6	3	3 do from do.....	15 75
Ste. Anne des Plaines and Railway Station.....	D. D. Gaudette.....	1	12	12 do.....	32 00
Ste. Anne de Sorel and Sorel.....	E. Latraverse.....	3	6	12 do.....	75 00
St. Anselme and Railway Station.....	F. Lamontagne.....	1	12	12 do.....	80 00
St. Anselme and Ste. Claire.....	do.....	7	6	12 do.....	175 00
St. Antoine and St. Appollinaire.....	J. H. Lambert.....	5	3	12 do.....	75 00
St. Antoine and St. Denis.....	A. Lacroix.....	1	6	12 do.....	70 00
St. Arsène and Viger.....	O. Gagnon.....	6	6	12 do.....	150 00
St. Athanase and Railway Station.....	P. Savaria.....	1	24	5 do (to Aug. 31, '88).	41 67
do do.....	H. Mailhot.....	1	24	7 do from do.....	58 33
St. Aubert and Railway Station.....	C. Dubé.....	1½	6	12 do.....	59 00
St. Aubert and St. Pamphile.....	A. Lavery.....	31	2	12 do.....	180 00
St. Augustin and Railway Station.....	H. Rochon.....	1½	6	12 do.....	56 00
St. Augustin Railway Station and Ste. Monique.....	D. Léonard.....	2	6	12 do.....	78 00
Ste. Barbe and St. Stanislas de Kostka.....	N. Lemieux.....	4½	2 & 3	12 do.....	58 11
St. Barnabé and St. Elie.....	E. Lacerte.....	9	6	12 do.....	150 00
St. Barnabé and Yamachiche.....	F. Menanson.....	12	6	12 do.....	193 00
St. Barthélemi and Railway Station.....	J. B. Joinville.....	1½	12	12 do.....	90 00
St. Bazile and Railway Station.....	F. Paquet.....	2½	6	12 do.....	80 00
St. Bazile le Grand and Ry. Station.....	E. Lalumière.....	1	6	12 do.....	40 00
St. Bazile Station and Ry. Station.....	C. A. Delage.....	120 yd	6	12 do.....	12 00
St. Bonaventure and St. Guillaume d'Upton.....	J. Lavallée.....	7½	3	10 do (from June 1, '88)	72 50
Ste. Brigitte and Railway Station.....	J. Donnelly.....	3	6	12 do.....	110 00
Ste. Brigitte des Sauls and Ste. Monique.....	H. St. Pierre.....	13	3	12 do.....	150 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
St. Bruno and Ste. Julie de Verchères.....	A. Hébert.....	5	6 12 months.....		140 00
St. Bruno and St. Paschal.....	P. Côté.....	7	1 12 do.....		50 00
St. Camille and Sherbrooke.....	Z. Manseau.....	26	1 12 do.....		77 00
St. Casimir and Railway Station.....	L. Martin.....	43	12 12 do.....		216 00
St. Casimir and St. Ubalde.....	J. Soular.....	11	3 12 do.....		145 00
Ste. Catherine and Railway Station.....	P. Julien.....	1	6 12 do.....		70 00
St. Célestin and Railway Station.....	D. Arseneau.....	14	6 12 do.....		60 00
St. Césaire and Railway Station.....	F. Garceau.....	4	12 12 do.....		50 00
St. Charles and Railway Station.....	E. Bilodeau.....	3	6 12 do.....		25 00
St. Charles and St. Marc.....	H. Desjardins.....	14	7 12 do.....		60 00
Ste. Claire and St. Malachie.....	P. Turgeon.....	10	6 12 do.....		190 00
St. Clément and St. Eloi.....	H. Aubert.....	12	3 12 do.....		98 00
Ste. Clothilde and Victoriaville.....	P. Lavigne.....	18	6 12 do.....		214 00
St. Columbin and Ste. Scholastique.....	M. Phelan.....	9	6 12 do.....		325 50
St. Constant and Railway Station.....	O. Robert.....	13	12 12 do.....		24 48
Ste. Cunégonde and Railway Station.....	G. N. Ducharme.....	13	24 12 do.....		100 00
St. Cuthbert and Railway Station.....	D. Langevin.....	3	6 6 do.....	12 days (broken period).....	36 81
St. Cuthbert Station and Railway Station.....	J. Marchand.....	300 yd	12 12 do.....		12 00
St. Cyr and Richmond East.....	R. E. Dyson.....	63	1 9 do.....	(to Dec. 31, '88).....	37 50
St. Cyrille and Railway Station.....	J. B. Cloutier.....	73	2 9 do.....	(from July 1, '88).....	78 00
St. Damase and St. Hyacinthe.....	J. Vigneux.....	73	6 12 do.....		230 00
St. Damase de Rimouski and Railway Station.....	A. Langlois.....	7	3 12 do.....		80 00
St. Damien de Brandon and St. Gabriel de Brandon.....	L. Peltier.....	6	4 12 do.....		190 00
St. Denis and Railway Station.....	S. Dionne.....	4	12 12 do.....		140 00
St. Didace and St. Norbert.....	E. Lauzon.....	163	6 12 do.....		400 00
St. Dominique and St. Hyacinthe.....	J. Vigneau.....	7	6 12 do.....		200 00
St. Dominique des Cedres and Railway Station.....	S. Trottier.....	2	3 12 do.....		36 00
St. Donat de Montcalm and St. Théodore de Chertsey.....	W. Aubin.....	27	1 12 do.....		135 00
St. Edward and St. Michel.....	F. Coupal, jr.....	43	6 12 do.....		118 00
St. Eloi and Railway Station.....	P. Langelier.....	3	6 12 do.....		100 00
Ste. Emelie de l'Energie and St. Jean de Matha.....	G. Clermont.....	12	2 9 do.....	(from July 1, '88).....	142 50
Ste. Emelie de l'Energie and St. Michel des Saints.....	A. Basinais.....	33	2 9 do.....	do.....	300 00
St. Ephrem d'Upton and Ste. Hélène de Bagot.....	N. Bilette.....	7	6 12 do.....		145 00
St. Etienne du Saguenay and Tadoussac.....	H. P. Blair.....	10	2 12 do.....		234 00
Ste. Eulalie and Railway Station.....	E. Prince.....	4	6 12 do.....		102 50
St. Eustache and Railway Station.....	J. M. Goulet.....	360 yd	6 12 do.....		45 00
St. Eustache and St. Joseph du Lac.....	J. B. Laurin.....	11	3 12 do.....		150 00
St. Evariste de Forsyth and Railway Station.....	F. St. Pierre.....	26	6 12 do.....		524 72
St. Evariste de Forsyth and St. Honoré.....	R. Bellegarde.....	7	6 12 do.....		100 00
St. Fabien and Railway Station.....	J. D'Anjou.....	1	12 12 do.....		48 00
Ste. Famille and St. Pierre d'Orléans.....	A. Maranda.....	8	3 12 do.....		120 00
St. Félicien and St. Prime.....	P. Rousseau.....	9	3 12 do.....		118 00
St. Félicien and Ticonabé.....	O. Perreault.....	5	2 9 do.....	(to Dec. 31, '88).....	45 00
St. Félix de Valois and Railway Station.....	S. Tessier.....	13	6 12 do.....		480 00
St. Félix de Valois and St. Jean de Matha.....	E. Lessard.....	8	6 12 do.....		200 00
Ste. Flavie and Railway Station.....	P. Chouinard.....	3	12 12 do.....		191 84
St. François de Salles and Terrebonne.....	C. Gascon.....	3	6 12 do.....		40 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
St. François, Montmagny, and Railway Station.	E. C. Boulet	1½	6	12 months	72 00
St. François-Xavier de Brompton and Windsor Mills.	J. Levesque	4	2 & 3	12 do	87 50
St. François-Xavier de Viger and Viger	J. Plourde	6	3	9 do (to Dec. 31, '88).	49 50
do do	P. Dionne	6	3	3 do from do	16 50
St. Frédéric and Railway Station.	J. Baillargeon	2	6	12 do	100 00
St. Frédéric and St. Séverin de Beauvillage.	F. H. Plante	6	3	12 do	100 00
St. Gabriel Station and Railway Station.	A. W. Landrigan	10 yds	6	12 do	16 00
Ste. Geneviève and Railway Station	A. Legault	3	6	12 do	130 00
Ste. Geneviève de Batiscan and Railway Station.	A. Lacourcière	4	12	12 do	149 00
Ste. Geneviève de Batiscan and St. Stanislas.	A. Despins	8	6	12 do	145 00
St. George East and St. Prosper de Dorchester.	J. Parent	11	1	12 do	54 01
St. Germain de Grantham and Railway Station.	E. Paré	½	12	12 do	60 00
St. Gervais and Railway Station.	F. Roy	5½	6	12 do	56 00
St. Gervais and St. Lazare.	J. Bélanger	6	6	12 do	179 00
St. Gervais and St. Nérée	J. Goulet	9	3	12 do	75 00
St. Guillaume and Railway Station.	A. René	½	12	12 do	100 00
St. Guillaume and St. Pie de Guire.	E. Poirier	11½	3	12 do	140 00
Ste. Hélène and Railway Station.	J. B. Berubé	½	12	12 do	28 00
Ste. Hénédine and Railway Station	J. Mercier	½	12	12 do	50 00
St. Henri and Railway Station.	T. Couet	½	12	12 do	70 00
St. Henri and St. Isidore.	A. Samson	10	6	12 do	152 00
St. Henri and St. Lambert	P. Lacasse	10	6	12 do	199 00
St. Henri de Montréal and Railway Station.	A. J. Bissonnette	½	24	12 do	90 00
St. Henri Station and Ry. Station.	G. Demers	½	12	12 do	75 00
St. Hermas and Railway Station.	P. E. Clairoux	4	6	12 do	160 00
St. Hilaire Station and Ry. Station.	F. Martin	100 yd	36	12 do	100 00
St. Hilaire Station and St. Jean Baptiste de Rouville.	L. G. E. Goulet	5	6	12 do	156 00
St. Hilaire Station and Sorel	J. B. Faneuf	33	6	12 do	1,096 00
St. Hubert and Railway Station	F. Robert	½	7	12 do	70 00
St. Hugues and St. Hyacinthe	E. Phaneuf	14	6	6 do (to Sept. 30, '88).	262 50
do do	A. Guertin	14	6	6 do from do	247 50
St. Hugues and St. Marcel	P. Gaumond	7	6	3 do (to June 30, '88).	46 00
do do	T. Forcier	7	6	9 do from do	134 25
St. Isidore and Railway Station.	A. Trudeau	¾	12	3 do (to June 30, '88).	18 00
do do	J. Primeau	¾	12	9 do from do	54 00
St. Isidore Junction and Ry. Station	F. Baillargeon	17 yds	12	12 do	16 00
St. Janvier and Railway Station	J. Jérôme	¾	12	12 do	40 00
St. Jean de Dieu and Trois Pistoles	E. Rousseau	14	3	12 do	188 00
St. Jean de Matha and St. Michel des Saints	J. B. Robitaille	45	2	3 do (to June 30, '88).	54 75
St. Jean Port Joli and Ry. Station.	G. Poitras	1½	12	12 do	160 00
St. Jérôme and Railway Station	E. Marchand	1½	12	12 do	52 00
St. Jérôme and Ste. Thérèse	J. Ouimet	14	6	12 do	300 00
St. Joachim and Warden	J. Bachand	7	6	12 do	168 00
St. John's and Railway Stations	W. Moore	½ & ¾	12 & 24	12 do	288 17
St. John's and St. Luc	M. Marsan	6	3	12 do	80 00
St. John's and Sabrevois.	A. M. White	8½	3	12 do	108 00
St. Joseph de Sorel and Sorel.	A. Bouvier	1½	6	12 do	48 00
St. Louis de Gonzague and Railway Station	H. Laberge	1	12	9 do (from July 1, '88)	56 25
St. Louis de Gonzague and St. Timothé Station	L. Vachère			Special trip.	4 50
Ste. Louise and Railway Station	A. Anctil	1½	12	12 months	50 00
Ste. Luce and Railway Station	I. St. Laurent	2	12	12 do	112 72

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Ste. Madeleine and Railway Station	J. Rainville	1	12	12 months	24 00
St. Malachie and Standon	N. Hebert	13	6	12 do	176 00
Ste. Marie de Monnoir and Railway Station	M. Bessette	1	12	12 do	49 00
Ste. Marthe and Vaudreuil	D. Rochon	15	6	12 do	540 00
Ste. Martine and Railway Station	G. Marchand	1	12	12 do	70 00
Ste. Martine Railway Station and St. Urbain	Z. Bergevin	41	6	12 do	130 00
St. Mathias and Village Richelieu	O. Darche	34	6	12 do	140 00
St. Mathieu and St. Simon	A. D'Anjou	3	3	12 do	79 00
St. Moïse and Railway Station	J. Smith	21	3	12 do	90 00
St. Moïse Station and Ry. Station	J. Vaillancourt	60yds.	12	12 do	24 00
St. Narcisse and Trois Rivières	F. Nobert	19	6	9 do (to Dec. 31, '88)	330 00
do do	U. Marinville	19	6	3 do from do	88 25
St. Norbert and Railway Station	S. Carpentier	9	6	12 do	290 00
St. Ours and St. Roch de Richelieu	J. B. Paquette	1	6	12 do	25 00
St. Pacôme and Railway Station	A. Hudon	11	12	12 do	112 00
St. Patrick and Railway Station	T. C. Picard	4	12	3 do 11 dys. (to Sept. 15, '88)	135 00
St. Paul du Buton and St. Pierre Montmagny	A. B. Cloutier	17	3	12 do	190 00
St. Paul's Bay and Ste. Tite des Caps	F. Bouchard	26	6	12 do	1,248 00
St. Paul's Bay and St. Urbain	T. Fortin	9	3	9 do (from July 1, '88)	124 89
St. Paul's Bay and Wharf	C. Bouchard	3	As req	Season 1888	316 00
St. Philippe de Laprairie and Railway Station	F. C. Larose	1	12	12 months	47 00
St. Philippe de Nery and Railway Station	F. Dechêne	1	12	12 do	40 00
do do	S. Fletcher	9	6	9 do (to Dec. 31, '88)	210 00
St. Phillippe Railway Station and Stonefield	R. C. Chambers	9	6	3 do from do	70 00
Ste. Philomène and Railway Station	J. B. D'Amour	21	6	12 do	145 00
St. Pierre les Becquets and Ste. Sophie de Lévrard	D. Fournier	12	3	12 do	125 00
St. Pierre Montmagny and Railway Station	N. Samson	2	12	12 do	95 00
Ste. Placide and St. Scholastique	A. Gratton	131	6	12 do	300 00
St. Pie and Railway Station	M. Drolette	1	12	12 do	38 00
St. Polycarpe and Railway Station	F. Lavergne	1	12	12 do	52 00
St. Polycarpe and St. Télesphore	do	5	6	12 do	180 00
St. Raphaël and Railway Station	P. Gauthier	6	6	12 do	72 00
St. Raymond and Railway Station	P. A. H. Pelletier	1	12	12 do	40 00
St. Régis and Cornwall	J. Isaac	6	2	9 do (to Dec. 31, '88)	45 00
do do	J. Angus	6	2	3 do from do	15 00
St. Rémi and Railway Station	J. B. Boyer	1	12	3 do (from Jan. 1, '89)	24 50
St. Rémi de Tingwick and Warwick	N. Champagne	131	6	12 do	396 00
St. Robert and Railway Station	L. Poirier	2	6	12 do	100 00
Ste. Rose and Railway Station	A. E. Léonard	1	12	12 do	72 00
St. Samuel de Gayhurst and Valletort	L. Tanguay	8	2	12 do	50 00
St. Sauveur de Québec and Street Letter Boxes	J. L. Saucier		24	12 do	196 00
Ste. Scholastique and Ry. Station	A. Gratton	1	12	12 do	40 00
St. Sebastien and Venice	A. T. Hunter	31	2	12 do	48 00
St. Simon and Railway Station	J. B. Martin	1	12	12 do	48 00
Ste. Sophie de Lacorne and Railway Station	M. Levesque	1	12	12 do	48 00
St. Stanislas de Kotska and Valleyfield	E. Cardinal	9	6	12 do	250 00
Ste. Thécle and Ste. Tite	F. Boutet	9	3&6	12 do	110 82
Ste. Théodose and Verchères	L. N. Handfield	6	3	12 do	78 00
Ste. Thérèse and Railway Station	F. Boismenu	1	24	12 do	80 00
St. Timothée and Railway Station	J. E. Daoust	11	12	3 do 11 dys. (from Dec. 21, '88)	13 70
St. Tite and Railway Station	G. Lahaie	6	6	12 do	139 00
St. Valentin and Stottville	F. Hétiér	3	6	12 do	72 00
St. Valier and Railway Station	A. Belanger	3	20	3 do (to June 30, '88)	24 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
St. Valier and Railway Station	J. Corriveau	3	6	9 months (from July 1, '88)	60 00
Ste. Victoire and Sorel	H. Paulhus	9	3	12 do	140 00
St. Vincent de Paul and Ry. Station	C. E. Germain	12	12	do	47 98
Savage's Mills and Railway Station	H. T. Tamlin	6	12	do	48 00
Sayabec and Railway Station	H. Boulay	60 yds	12	do	18 00
Scott Junction and Railway Station	G. Garon	60 yds	12	do	50 00
Scotstown and Railway Station	R. B. Scott	4	12	do	40 00
Scotstown, La Patrie and West Ditton	J. B. Brousseau	9 & 3	3 & 6	12 do	180 00
Shawenegan and Three Rivers	J. B. Lapolice	21	6	12 do	390 00
Shawville and Railway Station	W. McGuire	1/2	12	do	75 00
Sheffington and West Shefford Railway Station	A. Potvin	4	6	4 do 5 dys. (to Aug. 5, '88)	31 30
do do	do	2 1/2	6	4 do 26 dys. (to Dec. 31, '88)	36 20
do do	J. Harris	2 & 1/2	6 & 12	3 do from do	25 00
Sherbrooke and Post Office, Exhibition Building	R. A. Biron			Special trips	3 00
Sherbrooke and Railway Station	J. J. Foss	1/2	36	12 months, (and extra trips)	200 33
Sherbrooke and Stoke Centre	M. Biron	9 1/2	2	12 do	104 00
Sherbrooke, Sherbrooke East and Street Letter Boxes	R. A. Biron		18 & 7	12 do	350 00
Sherrington and Railway Station	B. Vautrin	2 1/2	6	12 do	100 00
Sillery Cove and Spencer Cove	C. Levier	1 1/2	6	12 do	42 00
Smith's Mills and Railway Station	W. T. Knight	12	12	do	16 00
Sorel and Railway Station	P. Lavallee	3	12	do	120 00
do do	J. Lavallee			Special trips	2 50
South Durham and Valcourt	T. A. Fee	15	3	12 months	187 20
South Ham and Railway Station	A. Vallee	9 1/2	6	12 do	300 00
South Quebec and Railway Station	J. Ritchie	200 yd	36	12 do	150 00
South Stukely and Railway Station	L. H. Knowlton	1/2	6	12 do	48 17
Spring Hill and Railway Station	M. A. McLean	1/2	12	9 do (to Dec. 31, '88)	30 00
do do	D. J. Morrison	1/2	12	3 do from do	15 00
Spring Hill and Stornoway	E. Bélanger	9	6	12 months	300 00
Stanford and Railway Station	P. Nadeau	24 yds	12	12 do	25 00
Stanstead Junction and Ry. Station	J. T. Jenkins	60 yds	12	12 do	30 00
Stanerville and Railway Station	J. M. Dorion	240 yd	12	12 do	12 00
Stoneham and Tewkesbury	X. Deschamps	7 1/2	2	12 do	50 00
Stornoway and Tolsta	A. Morrison	4	2	12 do	40 00
Suffield and Railway Station	P. Fitzpatrick	1/2	6	7 do 4 d's (to Nov. 4, '88)	11 90
Sutton and Railway Station	R. A. Shepard	1/2	12	12 do	60 00
Sutton Junction and Ry. Station	A. W. Westover	1/2	12	12 do	30 00
Sweetsburg and Railway Station	G. T. Batchelder	1/2	12	12 do	64 00
Tadousac and Wharf	P. Marquis	1	As req	Season 1888	46 80
Terrebonne and Railway Station	E. Brière	1/2	6	12 months	80 00
Thetford Mines and Ry. Station	S. Blondeau	150 yd	12	12 do	30 00
Three Rivers and Railway Station	H. C. Godin	1 1/2	31 & 37	12 do (and extra trips)	444 36
Three Rivers and Street Letter Boxes	J. P. Marineau		18	12 do	300 00
Three Rivers and Valmont	H. Sigman	15	3	12 do	160 00
Trahan's Mills and Weedon Station	A. Trahan	1 1/2	12	12 do	75 00
Tring Station and Railway Station	E. Vallée	10 yds	12	12 do	40 00
Trois Pistoles and Railway Station	T. P. Pelletier	1/2	12	12 do	40 00
do do	do	1/2	12	3 do 11 days (to Sept. 15, 1888)	11 33
Trois Saumons and Railway Station	B. Gaumond	2	6	12 do	68 00
Valcartier and Railway Station	J. McBain	6	6	12 do	185 00
Valleyfield and Railway Station	J. Monette	2 1/2	24	11 do (to Feb. 28, '89)	137 50
do do	L. Leguc	1/2	24	1 do from do	4 08
do do	D. Dion	1/2	12	12 do	72 00
Valois and Railway Station	P. G. Valois	180 yd	12	12 do	50 00

DETAIL of all payments for Mail Transportation in Quebec, &c.—*Concluded.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					s cts.
Varennés and Railway Station.....	A. Malo.....	300 yd	12	6 months 15 days (to Oct. 15, 1888) .....	32 50
Verschères and Railway Station.....	W. L. Forget....	$\frac{1}{2}$	12	6 do do .....	36 00
Versailles and Railway Station....	T. Lacombe.....	30 yds	12	12 do do .....	20 00
Victoriaville and Railway Station..	T. Foisy.....	$\frac{1}{2}$	12	5 do (to Aug. 31, '88) ..	13 33
Village des Aulnaies and Railway Station.....	J. B. Sirois.....	5	12	12 do .....	202 50
Village Richelieu and Ry. Station..	N. D. D. Bessette	$\frac{1}{2}$	12	12 do .....	48 00
Vincennes and Railway Station....	M. Dessureault..	3	6	12 do .....	150 00
Vinton and Railway Station.....	W. Gilchrist....	1	6	12 do .....	78 00
Walker's Cutting and Ry. Station..	R. D. Pépin.....	120 yd	12	12 do .....	12 00
Warden and Railway Station.....	A. Berry.....	46 rds	12	12 do .....	30 00
Warwick East and Railway Station	P. Johnson.....	180 yd	6	9 do (to Dec. 31, '88) ..	13 50
do do .....	E. Martel.....	180 yd	6	3 do from do .....	4 50
Waterloo and Railway Station.....	A. E. I. Beaulne	$\frac{3}{4}$	24	12 do .....	137 00
Weedon Centre and Ry. Station....	J. E. Côté.....	2	6	12 do .....	156 00
Weedon Station and Ry. Station....	N. Tanguay.....	60 yds	6	1 do (to April 30, '88) ..	1 67
West Brome and Railway Station..	N. Scott.....	$\frac{1}{2}$	12	12 do .....	50 00
Westbury Basin and Ry. Station...	O. Lepître.....	$\frac{1}{2}$	12	12 do .....	29 50
Wickham West and Ry. Station....	M. Leonard.....	$\frac{1}{2}$	12	12 do .....	32 00
Yamachiche and Railway Station..	R. Blais.....	$\frac{1}{2}$	12	12 do .....	58 00
Yamaska and Railway Station.....	L. H. Lafleur....	35 yds	12	12 do .....	32 00
Yamaska East and Ry. Station....	L. Léveillé.....	180 yd	12	12 do .....	30 00
Total .....					\$152,739 80

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

DETAIL of all payments for Mail Transportation in Quebec, made within the Year ended 30th June, 1889.  
CONVEYANCE OF MAILS BY STEAMBOATS AND SAILING VESSELS.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Bagotville, Chicoutimi and Quebec.	Richelieu and Ontario Navigation Co.	235	As required.	Season 1888.	\$ cts.
Carillon and Lachine.	Ottawa River Navigation Co.	44	6	do	4,500 00
Caghrinawaga and Lachine.	J. Delle.	14	12	8 months 20 days (to Dec. 20, 1888).	542 70
Coteau Station and Valleyfield.	G. Gauthier.	7	12	15 days (to Dec. 20, 1888).	226 00
Esquimaux Point and Rimouski.	Fraser & Holliday.	286	Fortnightly.	Season 1888.	45 00
Gaspé Basin and North Shore of River St. Lawrence.	E. Adams.	326	do	do (and special trip).	2,500 00
Georgville and Knowlton Landing.	J. B. Futvoye.	3	6	do (See land service).	1,100 00
Laprairie and Montreal.	Richelieu and Ontario Navigation Co.	9	6	Season 1888.	50 50
Levis and Quebec.	Quebec and Levis Ferry Co.	1	24	12 months.	173 00
do	do	1	12	12 do	416 64
Lourees du Blanc Sablon and Natashquan.	A. E. Juncas.	260		3 trips.	180 00
Magdalen Islands, Picton and Grand Entry, &c.	J. Holliday.	180	1	(In addition to subsidy).	120 00
Magdalen Islands and Souris, P.E.I.	Pickford & Black, Agents.			1 trip.	4,041 66
Montreal and Quebec.	Richelieu and Ontario Navigation Co.	180	6	Season 1888.	250 00
Rimouski Wharf and Ocean Steamers.	Intercolonial Railway.		As required.	do (and arrears for 1882).	1,200 00
Sea rate upon correspondence passing between Canada, China and Japan.	Canadian Pacific Ry. and Steamship Co.				13,366 66
				Total.	35 25
					\$28,747 41

N.B.—For Special Mail Subsidies and Steamship Subventions, see page 9.

W. II. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.



## DETAIL of all payments for Mail Transportation in Quebec, made within the Year ended 30th June, 1889.

## CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	Number of Trips per Week.	Period.	Amount.
Boston and Maine Railway .....	35	12	12 months (to 31st March, 1889) .....	\$ cts. 1,965 60
Canada Atlantic Railway (within Quebec) .....	53	6	12 do (to 31st May, 1889) .....	1,421 48
Canadian Pacific Railway (within Quebec)* .....	765	With varying frequency over different sections of the line .....		
Central Vermont Railway .....	107 & 68	6 & 12	12 do (to 31st March, 1889) .....	42,410 07
Grand Trunk Railway (within Quebec) .....	451	With varying frequency over different sections of the line .....	12 do do .....	4,902 08
Grand Trunk Railway (within Quebec) .....	8		12 do do .....	67,720 12
Great Northern Railway .....	303	6	Special trips with British Mails .....	4,212 00
Intercolonial Railway (within Quebec) .....		With varying frequency over different sections of the line .....	12 months (to 31st March, 1889) .....	149 76
International Railway .....	69	6	15 do (to 30th June, 1889, & arrears) .....	52,267 50
L'Assomption Railway .....	3½	12	3 do (to 30th June, 1889) .....	861 12
Montreal and Sorel Railway .....	45	6	10 do (to 31st March, 1889) .....	208 33
Pontiac and Pacific Junction Railway .....	68	6	6 do 13 days (to 13th Oct., 1889) .....	453 60
Quebec Central Railway .....	143	6	12 do (to 31st March, 1889) .....	2,125 16
Quebec and Lake St. John Railway .....	177	6	12 do do .....	7,138 56
			12 do do .....	5,627 85
			Total .....	\$191,463 23

\* This includes the service between St. Polycarpe and Smith's Falls.

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c.,  
in Quebec, made within the Year ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		8 cts.
S. & H. Borbridge.....	Mail bags, labels and repairs for Post Office Department.	1,872 12
R. S. Montgomery.....	Mail bags, rivet seals, &c. do ..	806 74
E. Chanteloup.....	Brass mail locks do ..	335 75
Smith & Egge Manufacturing Co.	Mail bag locks and keys do ..	17 50
Miller Lock Company.....	do do ..	15 00
G. Bailey.....	Repairing brass mail locks do ..	124 50
Pritchard & Andrews.....	Mail bag labels do ..	89 27
P. O'Donoghue.....	Repairing mail bags for Post Office Inspector, Montreal.	3 90
Postmaster, Bersimis.....	To pay for repairing mail bags at Bersimis.....	6 25
P. O'Donoghue.....	Repairing mail bags for Postmaster, Montreal.....	1,708 81
G. Bailey.....	Repairing brass mail lock do ..	1 00
	Total.....	\$4,980 84

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF NOVA SCOTIA.

DETAIL of all payments for Mail Transportation in Nova Scotia, made within the year ended 30th June, 1889.

Name of Route.	Name of Route.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Abercrombie and New Glasgow	R. Dunbar	5	2	12 months	68 00
Acadia Mines and Bass River	J. W. Davison	14	3	12 do	197 48
Acadia Mines and Londonderry Station	J. M. Bigny	23	24	9 do (to Dec. 31, '88)	157 50
do do	A. J. Gough	23	24	3 do from do	43 75
Addington Forks and Keppoch	D. Campbell	7	1	12 do	60 00
Advocate Harbor and Apple River	J. W. Ward	10	6	12 do	345 00
Afton and Bayfield	T. W. Taylor	23	6	12 do	97 00
Afton and Bayfield Road Ry. Station	M. Connor	23	12	12 do	65 00
Afton and Guysboro' Intervale	A. Chisholm	15	1	12 do	55 00
Albert Bridge and Horns Road	H. Horn	4	1	12 do	20 00
Alderney and Petit de Grat	W. Landry	2	3	9 do (to Dec. 31, '88)	37 50
do do	do	23	3	3 do from do	15 62
Alder Point and Little Bras d'Or	S. Plant	6	1	12 do	35 00
Alder River and Main Post Road	J. Chisholm	4	12	12 do	12 00
Alton and Railway Station	T. Lindsay	75 yds	6	12 do	20 00
Amherst and Amherst Point	I. B. Stewart	43	3	12 do	67 00
Amherst and Fenwick	W. Pipes	6	1	12 do	32 00
Amherst and Hastings	E. Chapman	6	1	12 do	40 00
Amherst and Linden	K. Hunter	20	3	12 do	210 00
Amherst and Little River	G. A. Purdy	223	2	12 do	240 00
Amherst and Railway Station	M. Hillson	4	Asreq	12 do	405 44
Annapolis and Dalhousie West	J. Gormley	16	1	6 do (from Oct. 1, '88)	50 00
Annapolis and Digby	R. H. Hardwick	21	6	12 do	396 00
Annapolis and Granville Ferry	W. H. Weather-				
	spoon	1	6	12 do	250 00
Annapolis and Liverpool	G. & E. Stailing	67	6	12 do	2,399 00
Annapolis and Perott Settlement	N. Dargie	9	1	12 do	45 00
Annapolis and Railway Station	A. W. Corbitt	1	12	12 do	112 00
Annapolis and Saw Mill Creek	R. Harris	33	3	12 do	70 00
Annapolis and Stoddart's	J. Gormley	31	1	6 do (to Sept. 30, '88)	70 00
Antigonishe and Arisaig, &c.	McDonald &				
	Gillis	7 & 10	2 & 1	12 do	145 00
Antigonishe and Brophy's	H. Dunn	14	2	6 do (to Sept. 30, '88)	80 00
do do	T. Brophy	14	2	6 do from do	66 00
Antigonishe and Cloverville	J. Thompson	5	1	12 do	40 00
Antigonishe and Cross Roads Ohio	T. McAnnis	13	2	8 do (to Nov. 30, '88, and extra trips)	84 20
Antigonishe and Georgeville	R. McDonald	44 r. t.	4	12 do	398 00
Antigonishe and Lower West River	T. McAnnis	33	2	4 do (from Dec. 1, '88)	17 33
Antigonishe and Railway Station	W. G. Cumming-				
	ham	3	12	12 do	95 00
Antigonishe and Sherbrooke	M. McGrath	40	3	12 do	1,119 28
Antigonishe and Williams' Point	D. McDonald	23	2	12 do	40 00
Antigonishe Harbor (South Side) and Lower Settlement, South River	J. Kiely	43	2	12 do	100 00
Anthony's Line and Scotch Village	S. Cochran	11 r. t.	2	12 do	55 00
Antrim and Gay's River	J. H. Taylor	16 r. t.	2	12 do	55 00
Apple River and East Apple River	J. H. Copp	3	6	12 do	50 00
Acadia and East Chebogue	W. W. Coffin	4	2	12 do	40 00
Ardness and Lismore	A. McDonald	3	3	12 do	50 00
Ardoise Hill and Newport Station	M. Harvey	19 r. t.	3 & 2	12 do	131 25
Argyle and Argyle Head	A. J. Nickerson	2	3	12 do	40 00
Argyle Sound and Lower Argyle	E. Murphy	33	1	12 do	19 00
Arichat and Lennox Ferry	A. Martell	5	4	Season 1888	50 00
Arichat and Petit de Grat	A. McDonald	3	3	12 months	87 50
Arichat and Robins	C. Lenoir	4	6	12 do	70 00
Arichat and West Arichat	A. McDonald	3	6	Season 1888	25 00
Ashfield and Whycomagh	H. McDonald	6	1	12 months	24 00
Athol and Railway Station	E. Donkin	1	12	12 do	100 00
Auburn and Greenwood	G. W. Eaton	6 1/2 r. t.	1	12 do	30 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Auburn and Railway Station.....	J. M. Smith.....	4	12	12 months.....	43 00
Auld's Cove and Railway Station...	H. McMullan....	1½	6	12 do .....	50 00
Avondale Station and Railway Station	A. F. Robertson..	1½	12	12 do .....	25 00
Avonport and Avonport Station.....	J. B. Newcomb..	1½	6	12 do .....	100 00
Avonport Station and Railway Station	do .....	12yds.	12	12 do .....	30 00
Aylesford and Bridgewater.....	M. N. Graves....	60	1	12 do .....	224 00
Aylesford and Harmony.....	A. D. Nichols....	20 r. t.	1	12 do .....	57 00
Aylesford and Morden.....	J. Redgate.....	22 r. t.	2	12 do .....	130 00
Aylesford and Railway Station.....	C. A. Williamson..	4	12	12 do .....	60 00
Baccaro and Port La Tour.....	W. P. Snow.....	3	2	12 do .....	39 00
Back Meadows and Poplar Hill.....	G. Clark.....	4	2	12 do .....	40 00
Baddeck and Big Bras d'Or.....	W. McDonald....	26	3	12 do .....	529 00
Baddeck and Grand Narrows.....	F. H. S. McNeill..	15	1	12 do .....	65 72
Baddeck and New Campbellton.....	M. D. McInnis...	30	3	5 do (to Aug. 31, '88).	166 25
do do .....	do .....	32	3	7 do from do ..	248 26
Baddeck and Rear Baddeck Bay.....	M. A. McKay....	8	1	12 do .....	52 00
Baddeck and Upper Settlement,	A. L. McLean....	16	2	4 do (to July 31, '88).	21 00
Baddeck River.....	D. L. Morrison...	16	2	8 do from do ..	46 48
Baddeck and Upper Settlement,	A. G. Crowdis...	19	2	12 do .....	143 00
Middle River.....	H. Fraser.....	4	2	12 do .....	27 00
Baddeck Bay and Plaister Mines...	A. H. Buchanan..	2½	2	12 do .....	28 00
Baddeck River, North Branch, and	S. Moore.....	16 & 5	3 & 2	12 do .....	160 00
Forks Baddeck.....	A. McLean.....	4½	6	12 do .....	125 24
Baie Verte and Linden.....	A. Baker.....	8 & 5	3 & 1	12 do .....	115 00
Bailey's Brook and Railway Station	A. McKay.....	2	3	12 do .....	40 00
Baker Settlement and Greenfield.....	L. McDougall....	4	1	12 do .....	15 00
Balmoral Mills and The Falls.....	G. Campbell....	18 r. t.	1	12 do .....	38 96
Banks Broad Cove and Strathlorne.	D. R. McKenzie...	4½	6	12 do .....	133 88
Barney's River and Marsh.....	O. L. Davison....	30 r. t.	6	10 do (to Jan. 31, '89).	260 00
Barney's River and Railway Station	J. K. Hogg.....	30 r. t.	6	2 do from do ..	55 00
Barrington and Port Clyde.....	J. McComisky...	22	6	12 do .....	456 00
do do .....	O. L. Davison....	4	6	3 do (from Jan 1, '89).	400 00
Barrington and Pubnico Beach.....	T. E. Ryer.....	23	6	3 do .....	118 75
Barrington and Yarmouth.....	T. W. Robertson..	1½	6	12 do .....	275 00
Barrington and Shelburne.....	J. W. Densmore..	32 r. t.	1	12 do .....	97 00
Barrington Passage and Cape Sable	B. Boudrot.....	4	3	9 do (to Dec. 31, '88).	37 50
Island.....	A. F. Bowden....	4	3	3 do from do ..	7 50
Barr Settlement and Shubenacadie.	A. Tretheway....	17 r. t.	2 & 1	12 do .....	70 00
Barrio's Beach and Big Tracadie...	I. De Long.....	18	1	12 do .....	79 00
do do .....	W. Gavel.....	3	12	12 do .....	115 00
Barss' Corner and Chesley's Corner.	J. A. McCarthy...	3	2	12 do .....	28 00
Barss' Corner and Mahone Bay.....	E. McNamara....	2	2	12 do .....	45 00
Barton and Railway Station.....	R. McLeod.....	8	3	12 do .....	120 00
Basin River Inhabitants and Lower	F. H. Matheson..	½	12	12 do .....	60 00
River Inhabitants.....	W. E. Harris....	7	1	6 do (to Sept. 30, '88)	21 80
Basin River Inhabitants and McNamara's Island.....	do .....	9½	1	6 do from do ..	29 58
Battery Hill and New Gairlock.....	D. McLeod.....	40	2	12 do .....	430 00
Battery Hill and Railway Station.	J. McIntosh....	7	2	9 do (to Dec. 31, '88).	41 25
Baxter's Harbor and Sheffield Mills	H. McDonald....	7	2	3 do from do ..	12 00
do do .....	G. L. Comeau....	4	2	6 do from Oct. 1, '88.	20 00
Bay St. Lawrence and Ingonish.....	J. H. McClelland..	5 & 6	10 & 2	12 do .....	230 00
Bay St. Lawrence and Meat Cove.	R. McClelland...	10	6, 3 & 2	12 do .....	73 00
Bear River, West Side, and Digby..	C. Grant.....	2½	1	12 do .....	15 00
Bear River, West Side, and Deep					
Brook, &c.....					
Beaulieu and Black River.....					

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Beaver Bank & Middle Sackville, &c.	L. L. Hamilton.	13 r. t.	6 & 3	6 months (to Sept. 30, '88)	147 24
do do	R. Emmerson.	13 r. t.	6 & 3	6 do from do	137 50
Beaver Bank and North Beaver Bank	W. Lively.	8	2	12 do	80 00
Beaver Bank and Railway Station.	D. Hallisey.	12 yds	12	12 do	93 00
Beaver River Corner & Cedar Lake	A. Porter.	18 r. t.	1	12 do	40 00
Bedford Basin and English Corner	N. Melvin.	9½	3	12 do	154 00
Bedford Basin and Railway Station	W. McKenzie.	100 yd	42	12 do	130 00
Beechmont and North West Arm.	G. K. Ball.	4	2	6 do (to Sept. 30, '88).	19 00
do do	M. McLeod.	4	2	6 do from do	12 50
Belmont and Debert Station.	C. McDermond.	15 r. t.	2	12 do	104 00
Belmont and Railway Station.	T. Lindsay.	½	12	12 do	120 00
Berwick and Buckley's.	S. C. Parker.	22½ r. t.	2	12 do	110 00
Berwick and Morristown.	E. Nichols.	14 r. t.	1	12 do	40 00
Berwick and Railway Station.	E. C. Foster.	¾	6	12 do	50 00
Berwick Ry. Station & Harborville	G. Collins.	11½	2	12 do	100 00
Berwick Ry. Station and Somerset.	G. W. Kinsman.	2½	4	12 do	70 00
Big Intervale, Margaree and Margaree Forks.	D. Campbell.	17	3	12 do	175 00
Big Island and Merigonishe.	D. Cameron.	16	2	12 do	77 50
Big Lorraine and Sydney.	R. Martin.	31	3 & 1	12 do	300 00
Big Marsh and Maryvale	D. J. McDonald.	3	1	12 do	16 00
Big Pond and Rear Ben Eoin.	A. Gillis.	6	1	12 do	25 00
Big Pond and Salem Road	H. D. Munro.	12	2	12 do	68 00
Big Port LeBear and Sable River.	G. Harding.	12	1	12 do	90 00
Big Tracadie and Mattie.	E. Coty.	8	1	12 do	40 00
Big Tracadie and Railway Station.	W. Gerrior.	100 yd	12	12 do	40 00
Birchtown and Churchover.	J. J. Gregory.	4	1	9 do (to Dec. 31, '88).	18 00
Birchtown and Clyde River.	F. G. Nicoll.	29	3	3 do from do	100 00
Bishopville and Hantsport.	R. E. Bishop.	6	2	12 do	80 00
Black Rock and Parrsboro.	M. Phinney.	6	1	12 do	42 00
Blanchard Road and New Glasgow	D. Fraser.	14	2	12 do	160 00
Blanche and Cape Negro.	T. O. G. Thomas.	4	2	9 do (to Dec. 31, '88).	30 00
do do	M. Slate.	4	2	3 do from do	12 50
Blandford and Hubbard's Cove.	J. Zink.	17	3	3 do (to June 30, '88).	70 00
do do	W. A. Mitchell.	17	3	9 do from do	202 50
Blandford and Tancook Island.	J. Pearl.	4	1	12 do	38 00
Blomidon and Canning.	P. Brown.	7½	6	12 do	199 04
Blomidon and Lower Blomidon.	A. Kennedy.	2½	2	12 do	25 00
Bloomfield and Main Post Road.	H. R. Jones.	1½	12	12 do	25 00
Blue Rock and Lunenburg.	J. E. Hunt.	5	1	2 do (to May 31, '88).	6 66
do do	do	5	2	4 do (to Sept. 30, '88).	26 66
do do	do	5	1	6 do from do	20 00
Boom and Lower Washabuck.	H. Campbell.	50 r. t.	2	12 do	298 00
Boom and Whycoomagh.	H. McDougall.	15	1	12 do	51 00
Boulardarie and Little Bras d'Or	J. Day.	20	3 & 2	12 do	289 00
Boulardarie and Point Clear.	J. Munro.	7	2	12 do	76 36
Boylston and Milford Haven Bridge.	J. R. Atwater.	¾	12	10 do (from June 1, '88)	83 33
Boylston and Pirate Harbor.	A. Hull.	50 r. t.	3	12 do	395 00
Brazil Lake and Railway Station.	I. Crosby.	1½	6	12 do	20 00
Brenton and South Ohio.	S. Pennell.	4	1	12 do	20 00
Bridgetown and Dalhousie West.	L. A. Dickie.	28 r. t.	1	6 do (from Oct. 1, '88)	45 00
Bridgetown and Grenville Ferry.	B. Reed.	14	3	3 do (to June 30, '88).	48 50
do do	J. E. Reed.	14	3	9 do from do	145 50
Bridgetown and Lawrencetown.	W. E. Poole.	18 r. t.	1	12 do	75 00
Bridgetown and Middletown.	E. Poole.	17	2	12 do	147 00
Bridgetown and Parker's Cove.	I. F. Hall.	27 r. t.	2 & 1	12 do	149 48
Bridgetown and Railway Station.	F. Crosskill.	¼	12	12 do	100 00
Bridgewater and Halifax.	G. Blair.	91	6	12 do	4,550 00
Bridgewater and Lawrencetown.	C. W. Phinney.	56	2	12 do	396 00
Bridgewater and Mill Village.	F. Baddos.	37	3	12 do	470 00
Bridgewater and New Canada.	W. T. Cronin.	26 r. t.	1	12 do	70 00
Bridgewater and Pleasant River.	J. Whitman.	10	3 & 2	12 do	239 00
Bridgewater and Shelburne.	J. K. Hogg.	89	6	12 do	4,840 40
Brighton and Railway Station.	E. Spittle.	4	12	12 do	150 00
Briley's Brook and Railway Station.	R. Chisholm.	¾	6	12 do	40 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Brookfield and Forest Glen.....	W. S. Hamilton.	13 r. t.	2	12 months.....	65 00
Brookfield and Pleasant River.....	F. Waterman....	8	3	12 do .....	116 00
Brookfield and Railway Station.....	J. Graham.....	100 y's	12	12 do .....	120 00
Brookfield and Upper Stewiacke.....	J. J. Brenton....	18	6	12 do .....	524 72
Brookland and Salt Springs.....	W. Gray.....	3	1	12 do .....	24 00
Brooklyn and Yarmouth.....	J. D. Morrill....	4	1	12 do .....	40 00
Brown's Brook and Halfway River Station.....	S. S. Brown.....	4	1	12 do .....	40 00
Brown's Mountain and Marshy Hope.....	J. McDonald.....	5½	1	12 do .....	25 00
Brulé and Denmark Road.....	J. W. McLeod....	3	3	11 do (from May 1, '88)	45 83
Brulé and Forbes.....	J. Forbes.....	2	1	12 do .....	30 00
Buckfield and Main Post Road.....	M. Wynet.....	1	1	2 do (from Feb. 1, '89)	1 66
Buckley's and Kentville.....	M. A. Kinsman....	34½	5	3 do (to June 30, '88).	125 00
do do.....	E. H. Fuller.....	34½	5	9 do from do .....	313 50
Burlington and Victoria Harbor.....	W. H. Clem.....	16 r. t.	1	6 do (to Sept. 30, '88).	18 50
do do.....	A. B. Hall.....	16 r. t.	1	6 do from do .....	19 74
Burntcoat and Noël.....	I. A. O'Brien....	4½	3	12 do .....	52 00
Cain's Mountain and McKinnon's Harbor.....	D. McKenzie.....	3	1	12 do .....	20 00
Caledonia Corners and Malaga Gold Mines.....	H. J. McClelland	9	3	3 do (from Jan. 1, '89)	40 00
Caledonia Corner and West Caledonia.....	W. Butler.....	3	3	12 do .....	85 00
Caledonia Corner and Whiteburn Mines.....	M. Chivers.....	5	3	12 do .....	75 00
Caledonia, St. Marys, and Upper Caledonia.....	D. M. Cameron....	6	1	6 do (to Sept. 30, '88).	16 00
Cambridge Station and Condon Settlement.....	J. Caldwell.....	10½ r. t.	1	12 do .....	45 00
Cambridge Station and Railway Station.....	A. Neily.....	50 yds	12	12 do .....	26 00
Camden and Truro.....	E. Logan.....	9	2	12 do .....	80 00
Cameron Settlement and Pictou Road.....	D. M. Cameron....	22 r. t.	2 & 1	6 do (from Oct. 1, '88)	44 50
Canaan and Kentville.....	A. Bishop.....	6	6	9 do (to Dec. 31, '88).	123 00
do do.....	J. B. DeWolfe....	6	6	3 do from do .....	43 25
Canaan and Tusket.....	A. Hurlburt.....	26 r. t.	1	12 do .....	70 00
Canada Creek and Waterville.....	E. Thomas.....	9½	2	12 do .....	67 00
Canard and Lower Canard.....	E. H. Lockwood...	2	12	12 do .....	125 00
Cannes and River Bourgeoise.....	C. Sampson.....	2½	3	12 do .....	54 60
Canning and Kentville.....	A. C. Reid.....	12	6	12 do .....	280 00
Canning and Medford.....	W. West.....	5	6	12 do .....	150 00
Canning and North Medford.....	B. Weaver.....	4	1	12 do .....	20 00
Canning and Port William Station.....	J. L. Bishop.....	7	6	12 do .....	247 00
Canning and Scott's Bay.....	W. H. Jess.....	16	3	12 do .....	176 00
Canoe Lake and Gaberouse.....	A. Munro.....	4	1	12 do .....	20 00
Canso and Guysboro.....	G. W. Scott.....	31	6	6 do (to Sept. 30, '88).	545 00
do do.....	do.....	34	6	6 do from do .....	597 74
Cape George and Georgeville.....	L. McIsaac.....	20 r. t.	1	12 do .....	40 00
Cape Le Ronde and Rocky Bay.....	C. Doyle.....	3	2	12 do .....	30 00
Cape Negro Island and North East Harbor.....	J. R. King.....	3	2	12 do .....	55 00
Cape North and Dingwall.....	J. McPherson....	4½	2	12 do .....	38 00
Cape Sable Island and Clarke's Harbor.....	T. W. Covert.....	20 r. t.	6	12 do .....	392 00
Cariboo Gold Mines and Upper Musquodoboit.....	A. Burnett.....	8	3	12 do .....	156 00
Carroll's Corner and Elmsdale.....	J. Carroll.....	19½	2	12 do .....	64 00
Catalone and Catalone Gut.....	A. McDougall....	3½	1	12 do .....	24 00
Catalone and Little Lorraine.....	H. McIntyre.....	12	3	12 do .....	149 00
Catalone and New Boston.....	J. McDonald.....	4	2	12 do .....	29 00
Centreville and Hall's Harbor.....	B. A. Kirby.....	18 r. t.	1	12 do .....	110 00
Chance Harbor and Pictou Landing.....	D. Cameron.....	4	1	12 do .....	20 00
Chapman Settlement and Head of Anherst.....	J. Greeno.....	6	1	12 do .....	25 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Chebogue Point and Yarmouth....	W. Cain.....	12 r. t.	3	12 months.....	117 00
Chelsea and Pleasant River.....	H. Dexter.....	9	1	12 do .....	40 00
Chester and Kentville.....	J. L. Bishop.....	46	2	12 do .....	650 00
Chester and Windsor.....	J. Keizer.....	35	2	12 do .....	370 00
Cheverie and Kennetcook.....	W. Sanford.....	8	1	12 do .....	38 00
Cheverie and Newport.....	T. Harvie.....	17	6	6 do (to Sept. 30, '88).	170 00
do .....	R. M. Wilcox.....	17	6	6 do from do .....	257 50
Cheverie and Walton.....	J. W. Morris.....	12	3	9 do (to Dec. 31, '88).	116 25
do .....	R. Pratt.....	12	3	3 do from do .....	43 75
Chignecto and Maccan.....	M. B. Harrison.....	3½	3	12 do .....	140 00
Chimney Corner and Dunvegan.....	L. McPherson.....	7	1	12 do .....	28 00
Chipman's Brook and Lakeville.....	C. N. Porter.....	18 r. t.	2	12 do .....	80 00
Christmas Island and East Bay.....	J. McAdam.....	29	3	12 do .....	387 92
Churchville and Mountville.....	J. Urquhart.....	3	1	12 do .....	20 00
Churchville and New Glasgow.....	J. Robertson.....	6	3	12 do .....	74 00
Claremont and River Philip.....	M. Chapman.....	3	2	12 do .....	29 00
Clark's Harbor and The Hawk.....	R. W. Stephens.....	3½	6	9 do (from July 1, '88)	43 50
Clark's Road and Louisburg.....	A. McLean.....	4½	1	12 do .....	39 00
Clementsford and Clementsvalle.....	G. G. Hicks.....	4	3	12 do .....	58 00
Cloverdale and Middle Stewiacke.....	W. W. Winton.....	7	2	12 do .....	60 00
Clyde River and Gunning Cove.....	J. K. Hogg.....	21	3	9 do (to Dec. 31, '88).	176 40
Clyde River and Upper Clyde River.....	R. Sutherland.....	25	1	12 do .....	91 00
Cognmogun River and Kennetcook.....	J. Reynolds.....	5	1	12 do .....	16 00
Coldbrook Station and Ry Station.....	H. Porter.....	60 yds	12	12 do .....	28 00
Coldstream and Gay's River.....	C. Gay.....	5	1	12 do .....	30 00
Collegeville and Lochaber.....	T. J. Sears.....	1½	3	12 do .....	50 00
Comeauville and Railway Station.....	A. P. Theriau.....	2	12	12 do .....	140 00
Concession and Railway Station.....	A. A. Comeau.....	2	3	12 do .....	50 00
Conquerall Bank and Conquerall Mills.....	A. Snyder.....	5	1	12 do .....	40 00
Corberrie and Weymouth Bridge.....	A. Melanson.....	14	2	12 do .....	136 00
Cow Bay and Mira Gut.....	J. Martell.....	25 r. t.	1	12 do .....	75 00
Cow Bay and Sydney.....	J. O'Callaghan.....	26½	6	12 do .....	400 00
Coxheath and Sydney.....	R. Martin.....	3	2	12 do .....	25 00
Cranton Section and North East Branch Margaree.....	M. A. Ethridge.....	2½	3	12 do .....	30 00
Cross Roads Country Harbor and Goshen.....	J. G. Sinclair.....	10	1	12 do .....	35 48
Cross Roads Country Harbor and Guysboro'.....	E. H. Carritt.....	24	3	9 do (to Dec. 31, '88).	285 00
Cross Roads Ohio and Ireland.....	P. W. Murphy.....	5	1	6 do (from Oct. 1, '88)	13 00
Cross Roads Ohio and James River Station.....	C. J. McLean.....	9	2	8 do (to Nov. 30, '88).	52 99
do .....	H. A. McDougall.....	10	6	4 do from do .....	98 66
Crouse Town and Petite Rivière Bridge.....	S. Hilton.....	3	1	12 do .....	20 00
Culloden and Digby.....	C. E. Turnbull.....	17 r. t.	1	12 do .....	47 00
Cummings' Mountain and Sunnybrae.....	D. McIntosh.....	3	1	12 do .....	20 00
Dalhousie Settlement and Durham.....	H. McKay.....	11	2	12 do .....	73 00
Dartmouth and Halifax.....	J. E. Leadley.....	1	19	12 do .....	112 75
Dartmouth and Montague Gold Mines.....	F. W. Cooper.....	7	3	12 do .....	120 00
Dartmouth and South East Passage.....	J. A. Shiers.....	6	1	12 do .....	52 00
Dartmouth and West Chezzetcook.....	W. H. Isnor.....	48 r. t.	1	12 do .....	150 00
Dean and Shubenacadie.....	G. Hamilton.....	36	6	6 do (to Sept. 30, '88).	779 00
do .....	T. Cox.....	36	6	6 do from do .....	550 00
Debert Station and Folly Mountain.....	R. English.....	17½	3	12 do .....	285 36
Debert Station and Masstown.....	C. G. Fraser.....	4	3	12 do .....	62 00
Delop's Cove and Granville Ferry.....	W. W. Hardy.....	12	1	12 do .....	60 00
Dennistown and Judique.....	A. Gillis.....	7½	1	12 do .....	30 00
Descouse and Lennox Ferry.....	N. McDonald.....	3	6	12 do .....	167 00
Descouse and Rocky Bay.....	do .....	3	2	12 do .....	30 00
do .....	C. Doyle.....	3	2	1 year, 10 months (to Mar. 31, '88—Special service)	20 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Devon and Goffs.....	T. Cox.....	5½	1	12 months.....	30 00
Digby and Railway Station.....	G. R. Burton.....	200 yd	12	12 do.....	100 00
Digby and Thorneville.....	H. Sederquist.....	8	2	12 do.....	100 00
Digby and Westport.....	G. & E. Stailing.....	43	6	12 do.....	1,199 00
Digby Wharf and Railway Station.....	G. R. Burton.....	200 yd	6	12 do.....	50 00
Doherty Creek and Street's Ridge.....	T. Wilkinson.....	10	3	12 do.....	119 00
Dover East and Peggy's Cove.....	W. Baker.....	4	2	12 do.....	60 00
Dufferin Mines and Salmon River.....	A. Gallagher.....	3½	3	12 do.....	60 00
Dunmaglass and McArra's Brook.....	A. McGillivray.....	3	3	12 do.....	50 00
East Bay and McAdam's Lake.....	R. R. McDonald.....	6½	2	1 do (to Apr. 30, '88).	6 25
do do.....	J. McDonald.....	6½	2	11 do from do.....	54 08
East Bay and Sydney Mines.....	J. W. Peppitt.....	19	6	12 do.....	696 00
East Chezzetcook and Head of Chezzetcook.....	J. Smith.....	3	1	12 do.....	25 00
Eastern Harbor and Little River Cheticamp.....	L. LeBlanc.....	2½	2	7 do from Sept. 1, '88.	14 58
Eastern Harbor and Pleasant Bay.....	J. G. McIntosh.....	24	1	12 do.....	100 00
Eastern Harbor and Port Hastings.....	W. P. Fynn.....	101	6	6 do (to Sept. 30, '88).	3,550 00
do do.....	H. A. Archibald.....	101	6	6 do from do.....	3,550 00
East Jeddore and Jeddore Oyster Ponds.....	D. Mitchell.....	3½	2	12 do.....	72 00
East Mapleton and East Southampton.....	E. Brown.....	6	2	12 do.....	100 00
East Margaree and Post Road.....	D. McInnes.....	2	6	12 do.....	65 00
East Mines Station and Folly Village.....	D. L. Urquhart.....	4½	12	12 do.....	225 00
East Mines Station and Ry. Station.....	C. Morrison.....	20 yds	6	12 do.....	50 00
East Mountain and Valley Station.....	G. E. Johnson.....	2	2	9 do (from July 1, '88)	30 00
East River, St. Mary's and Green's Brook.....	M. Green.....	5½	1	12 do.....	20 00
East River, Sheet Harbor and West River, Sheet Harbor.....	J. H. Dimock.....	4	3	4 do 15 days (to Aug. 10, 1888).	37 50
East Side Pubnico Harbor and Forbes' Point.....	J. McComisky.....	10½	3	12 do.....	183 00
East Side Ragged Islands and Lewis Head.....	G. Craig.....	6	1	6 do 15 days (to Oct. 15, 1888).	32 50
East Side Ragged Islands and Wall's Corner.....	W. P. Hupman.....	3	2	5 do 16 days from do.....	18 32
East Southampton and Ry. Station.....	W. F. Lewis.....	½	12	12 do.....	40 00
Eastville and Upper Stewiacke.....	S. Ellis.....	10	6	12 do.....	400 00
Economy Point and Main Post Road.....	J. F. Vance.....	1	6	12 do.....	80 00
Eel Cove and Main Post Road.....	M. McLeod.....	½	2	12 do.....	10 00
Eel Creek and Linden.....	H. Hunter.....	9 r. t.	3	12 do.....	77 12
Ellershous and Newport.....	D. Harvey.....	6	2	3 do (to June 30, '88).	21 25
do do.....	W. Woo Iroff.....	6	2	9 do from do.....	45 00
Ellershous and Railway Station.....	J. Johnson.....	50 yds	24	9 do (to Dec. 31, '88).	75 00
do do.....	J. McDonald.....	50 yds	24	3 do from do.....	12 50
Elmsdale and Nine Mile River.....	J. Urquhart.....	8	1	12 do.....	44 80
Elmsdale and Railway Station.....	E. Thompson.....	80 yds	12	12 do.....	50 00
Emerald and Main Post Road.....	P. Tompkins.....	3½	1	12 do.....	20 00
Enfield and Oldham.....	J. Mulally.....	3	6	3 do (to June 30, '88).	13 75
do do.....	A. Meagher.....	3	6	9 do from do.....	41 25
Enfield and Railway Station.....	H. F. Donaldson.....	20 yds	12	12 do.....	50 00
Enfield and Renfrew.....	J. McKenzie.....	7	1	12 do.....	48 00
Englishtown and Ingonishe.....	M. Morrison.....	34	2	12 do.....	680 00
Ernville and Roman's Valley.....	P. E. Farrell.....	7	1	12 do.....	20 80
Eureka and Railway Station.....	H. Grant.....	4	12	12 do.....	50 00
Fairview Station and Rockingham Railway Station.....	J. McDonald.....	1	3	3 do (to June 30, '88).	16 25
Fairview Station and Rockingham Railway Station.....	E. McDonald.....	1	3	9 do from do.....	48 75
Falkland and Herring Cove.....	T. Hayes.....	3	2	12 do.....	45 00



DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Falkland Ridge and Springfield....	D. D. Starratt..	5	1	12 months.....	29 48
Falmouth Station and Ry. Station..	W. Armstrong..	12 yds	12	12 do .....	47 00
Falmouth Station and Upper Falmouth..	L. Aker.....	10 r. t.	3	12 do .....	116 00
False Bay Beach and South Head	H. Spencer.....	7	1	5 do (to Aug. 31, '88).	18 75
Cow Bay.....	do .....	9	1	7 do from do ..	33 74
Farmington and West Branch River Philip..	M. Chapman.....	12½ r. t.	3	12 do .....	150 00
Fauxburg and Lunenburg..	E. Steverman.....	6½	1	12 do .....	65 00
Fifteen Mile Stream and Trafalgar..	W. D. McLean..	16	1	6 do (to Sept. 30, '88).	52 00
do do .....	J. Nelson.....	16	1	6 do from do ..	71 50
Fletcher's Station and Wellington Station..	E. Largie.....	¾	6	12 do .....	75 00
Folly Lake and Railway Station..	N. McPherson..	100 yds	12	12 do .....	40 00
Fort Lawrence and Railway Station	C. E. Baker .....	¼	12	12 do .....	100 00
Fort Lawrence and Upper Fort Lawrence..	M. Chapman .....	2½	3	12 do .....	60 00
Foster's and Newburn..	W. Vienot.....	5½	1	12 do .....	25 00
Fouchie and Gaberouse..	W. McDonald..	12	3	12 do .....	210 00
Fouchie and Grand River..	J. Morrison.....	30	3	12 do .....	299 00
Four Mile Brook and West River..	J. McKay.....	5½	2	12 do .....	24 00
Fox Harbor and Pugwash.....	F. Tuttle.....	11½	3	6 do (to Sept. 30, '88).	63 74
do do .....	S. P. Borden..	11½	3	6 do from do ..	75 00
Framboise and North Framboise..	A. McQueen.....	5	1	12 do .....	30 00
Fraser's Grant and Heatherton..	A. McDougall..	5	1	12 do .....	46 00
French River and McGrath's Mountain..	D. Cameron.....	6	1	12 do .....	28 00
French Vale and North-West Arm.	B. Gouthro.....	7	1	12 do .....	27 00
Gaberouse and Gaberouse Barachois	T. Bagnell.....	1½	2	4 do (from Dec. 1, '88)	4 00
Gaberouse and Gull Cove..	A. Hardy.....	4	1	12 do .....	20 00
Gaberouse and Sydney..	R. Martin.....	26	3	12 do .....	370 36
Gaspereaux and Gaspereaux (circular route).....	R. Westcott.....	19 r. t.	1	12 do .....	63 00
Gaspereaux and Newtonville..	do .....	4	1	12 do .....	20 00
Gaspereaux and Wolfville..	W. A. Benjamin	2½	3	12 do .....	51 00
do do .....	E. A. Davison..	2½	3	2 do (from Feb. 1, '89)	7 50
Georges River and Little Bras d'Or	L. Day.....	5	1	12 do .....	32 00
Georgeville and Glebe Road..	M. McDougall..	15 r. t.	1	12 do .....	55 00
Gilbert Cove and Railway Station.	L. N. Thibreau..	¾	12	12 do .....	144 00
Gillander's Mountain and Middle River..	C. McLennan ..	4	1	12 do .....	20 00
Glen Bard and Railway Station..	J. McLean.....	1½	2	12 do .....	30 00
Glendale and Mabou .....	A. Boyd.....	24	2	12 do .....	393 00
Glendale and River Inhabitants Bridge	do .....	14	3	12 do .....	230 00
Glendyer and Mabou .....	W. McDonald..	3	3	12 do .....	40 00
Glenelg and Upper Cross Roads St. Marys..	J. McGrath.....	4	3	12 do .....	42 48
Glenelg and Waternish.....	K. McKenzie....	4	1	12 do .....	20 00
Glengarry and Port Hood..	S. Campbell.....	8	1	12 do .....	48 72
Glengarry Station and Pleasant Valley..	A. McKay.....	27 r. t.	3	12 do .....	235 44
Glengarry Station and Ry. Station.	D. Graham.....	100 yd	12	12 do .....	50 00
Glen Margaret and Head of St. Margaret's Bay	G. Dauphin.....	12	6	12 do .....	340 00
Glen Margaret's and Peggy's Cove..	W. Pace.....	9	6	6 do (to Sept. 30, '88).	101 24
do do .....	J. Miller, sr ..	9	6	6 do from do ..	104 00
Glenshee and Merigomishe..	D. Campbell.....	9	2	12 do .....	75 00
Goff's and Waverly.....	J. E. McDonald..	11	1	12 do .....	49 00
Goldenville and Sherbrooke..	M. McGrath.....	2½	6	12 do .....	135 00
Gore and Maitland.....	M. Tucker.....	20	3	12 do .....	375 00
Gore and Mount Uniacke..	J. Trider.....	27	3	12 do .....	350 00
Gore and Newport.....	J. Murphy.....	41 r. t.	3	9 do (to Dec. 31, '88).	222 75
do .....	J. M. Hennessy	41 r. t.	3	3 do from do ..	80 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Gore and Shubenacadie (via Blois Rd)	A. Densmore	40 r.t.	1	12 months	119 00
Gore and Shubenacadie (via North Salem)	do	42 r.t.	1	12 do	127 00
Goshen and North End Lochaber	A. Manson	7	1	3 do (to June 30, '88).	10 00
do do	do	7	2	9 do from do	60 00
Goshen and St. Andrews	A. McPherson	17½	3	12 do	147 96
Grand Anse and Grandique Ferry	A. McDonald	3	6	9 do (to Dec. 31, '88).	72 75
do do	N. McDonald	3	6	3 do from do	23 50
Grandique Ferry and Lennox Ferry	G. M. Shaw	¾	6	12 do	600 00
Grandique Ferry and West Arichat	N. McDonald	10	6	6 do (to Sept. 30, '88).	245 00
do do	A. McDonald	10	6	6 do from do	245 00
Grand Lake Station and Ry. Station	G. Nichols	100 yd	12	12 do	20 00
Grand Narrows and Grand Narrows Rear	A. McDonald	5	1	12 do	25 00
Grand Pré and Long Island	A. Fullerton	2½	3	12 do	80 00
Grand Pré and Railway Station	A. Borden	½	12	12 do	100 00
Grand Pré and Wellbrook	A. Mitchell	2	1	12 do	20 00
Grand River and St. Peters	A. Morrison	17	6	12 do	600 00
Granton and Westville	D. Robertson	7	2	12 do	99 00
Granville Ferry and Victoria Beach	W. A. Piggott	17	6	12 do	367 08
Great Village and Londonderry Station	D. M. Kent	4	12	12 do	300 00
Great Village and Lower Five Islands	J. W. Davison	29½	6	12 do	620 00
Green Cove and Ingonishe	D. Smith	6	2	9 do (to Dec. 31, '88).	37 50
do do	M. Timmons	6	2	3 do from do	12 00
Greendale and Malignant Cove	J. W. Chisholm	4	1	3 do (to June 30, '88).	5 00
Greenfield and Middlefield	S. H. Tibert	5	2	3 do do	12 00
do do	J. E. Tibert	5	2	9 do from do	36 00
Greenfield and Valley Station	R. McKenzie	5½	2	12 do	52 48
Green Hill and Westville	R. McCaul	6	3	9 do (from July 1, '88)	84 00
Green's Creek and Lower Stewiacke	A. Bigelow	30 r.t.	1	12 do	80 00
Greenville and Westchester	S. A. Purdy	16 r.t.	2	12 do	110 00
Greenville Station and Head of Wallace Bay, North Side	J. Dotten	17	3	12 do	188 00
Greenville Station and North Greenville	G. Rushton	5	1	12 do	26 00
Greenville Station and Ry. Station	J. S. Forshner	50 yds	12	12 do	60 00
Greenville Station and Wallace	B. Betts	17	6	12 do	280 00
Grosses Coques and Ry. Station	A. C. Melançon	4	12	12 do	240 00
Grosvenor and Ry. Station	S. O'Neill	5	3	12 do	100 00
Guysboro' and Heatherton	D. D. Harrington	26	6	12 do	1,378 00
Guysboro', Tor Bay and New Harbor	J. Tory	20&7	4&2	12 do	390 50
Guysboro' and Salmon River Lake Settlement	T. O'Connor	13	3	3 do (from Jan. 1, '89)	46 25
Hainsville and North Range Corner	W. H. Hains	2	2	12 do	31 00
Half Island Cove and Port Felix	A. F. Ehler	26 r.t.	2	6 do (to Sept. 30, '88).	57 50
do do	do	28 r.t.	2	3 do (to Dec. 31, '88).	32 06
do do	W. Digdon	28 r.t.	3	3 do from do	41 25
Halfway River Station and Harrison Settlement	W. Harrison	7	2	12 do	82 48
Halfway River Station and Ry Station	J. Davison	½	12	12 do	60 00
Halifax and Lower Prospect	G. H. Slaughwhite	22½	1	12 do	84 00
Halifax and Prospect	C. Purcell	21	2	6 do (to Sept. 30, '88).	95 00
do do	J. Walsh	21	2	6 do from do	62 50
Halifax and Ry. Station	E. Fishwick	1½	As req	12 do	1,000 00
Halifax and Sambro	P. Scallion	21½	2	12 do	165 00
Halifax and West River Sheet Harbor	H. W. Quinn	80	3	12 do	1,387 60
Halifax Post Office and Wharf	S. Cunard & Co.	2	As req	Season 1888-89	342 00
do do	A. Conlon	2	As req	Season 1888	82 00
do do	Sundry persons	2		Special strips	2 50

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Hansford and Streets Ridge.....	A. D. Lockhart.	14 r. t.	6	12 months.....	200 00
Hansford and West Hansford.....	W. Sutherland..	1½	2	12 do .....	25 00
Hantsport and Lockhartville.....	B. Nason.....	3	3	12 do .....	74 00
Hantsport and Ry. Station.....	S. H. Mitchner..	1¼	24	12 do .....	68 00
Harbour au Bouche and Ry. Station.	V. Levangie.....	2	12	12 do .....	78 00
Harmony Mills and Westfield.....	R. Johnson.....	4	1	12 do .....	25 00
Head of Indian Harbor Lake and Sherbrooke.....	M. McGrath.....	41 r. t.	3	12 do .....	224 64
Head of Jeddore and West Jeddore	A. W. Day.....	6	2	6 do (to Sept. 30, '88).	37 50
do do	J. A. Blakeney..	6	2	6 do from do ..	37 50
Head of River Hébert and River Hébert.....	B. Baird.....	5	3	12 do .....	120 00
Head of South River Lake and Salmon River Lake Settlement..	H. Kenney.....	15	1	12 do .....	37 80
Head of Tatamagouche Bay and Tatamagouche.....	W. Dobson.....	5	3	12 do .....	117 00
Heatherton and Ry. Station.....	A. Fraser.....	½	12	12 do .....	140 00
Heatherton and Summerside.....	C. Boudroit.....	3	1	12 do .....	27 73
Hebron and Ry. Station.....	C. Cahan.....	½	12	12 do .....	50 00
Hectanooga and Ry Station.....	D. D. McQuarrie	50 yds	12	12 do .....	40 00
Hedgeville and Main Post Road..	H. Holmes.....	1	2	12 do .....	21 00
Hemford and Pleasant River.....	J. Venot.....	7	1	12 do .....	30 00
Holland Harbor and Port Hillford.	G. Flick.....	3	3	12 do .....	40 00
Hopewell and Melrose.....	J. McDaniel.....	32½	6&3	12 do .....	768 92
Hopewell and Ry. Station.....	J. Gunn.....	4	12	12 do .....	85 00
Hopewell and Trafalgar.....	J. McDonald.....	18	3	12 do .....	140 00
Horton Landing and Ry. Station..	F. G. Curry.....	½	12	12 do .....	75 00
Hubbard's Cove and Mill Cove....	J. W. Jollymore	4	.....	Special service.....	2 50
Indian Point and Mahone Bay.....	J. Ernst.....	5	1	12 months.....	30 00
Iron Ore and Sunnybrae.....	J. McDonald.....	4	1	12 do .....	25 00
Isaac's Harbor and Isaac's Harbor East Side.....	S. McMillan.....	4	3	12 do .....	26 48
Isaac's Harbor and Melrose.....	M. H. Grant.....	28	3	12 do .....	228 00
Isaac's Harbor East Side and New Harbor.....	A. McDonald.....	12	1	12 do .....	74 88
Jackson's and West Branch River Philip.....	M. Chapman.....	6½	3	12 do .....	62 80
James River and James River Station.....	J. Chisholm.....	3	2	12 do .....	50 00
James River Station and Railway Station.....	J. McDonald.....	100 y's	12	12 do .....	60 00
Jauvrin's Harbor and West Arichat	P. Dorey.....	7	2	12 do .....	85 00
Johnson's Crossing and Ry. Station	G. Riese.....	½	12	12 do .....	50 00
Jordan Bay and Shelburne.....	A. Morrison.....	22 r. t.	3	12 do .....	138 00
Judique and Upper South-West Mabou.....	D. McDonnell.....	11	1	12 do .....	50 00
Kempt and New Grafton.....	L. Kathrens.....	3½	1	12 do .....	28 00
Kempt Head and Upper Kempt Head.....	M. McKenzie.....	3	1	3 do (from Jan. 1, '89)	6 25
Kennetcook Corner and Noël.....	J. A. O'Brien.....	20 r. t.	2	12 do .....	72 00
Kennington Cove and Louisburg...	J. McLean.....	6	1	12 do .....	40 00
Kerrowgare and Sunnybrae.....	D. K. McDon-	2	2	12 do .....	46 00
Kentville and Railway Station.....	J. E. Eaton.....	200 y's	24	12 do .....	150 00
Kewstoke and Whyecomagh.....	A. McQuien.....	7½	1	12 do .....	35 00
Kingsbury and Lunenburg.....	J. E. Hunt.....	31 r. t.	2	12 do .....	322 60
Kingston Station and Melvern Sq.	W. Gates.....	2½	6	12 do .....	98 00
Kingston Station and Ry. Station.	A. C. Vanbuskirk	100 y's	12	12 do .....	36 00
Kingston Station and Rhodes.....	T. Walker & J. Randall	14 r. t.	2	12 do .....	40 00
Kingston Station and Tremont.....	A. C. Vanbuskirk	16 r. t.	2	12 do .....	125 00
Kolbeck and Oxford.....	T. R. Smith.....	16 r. t.	1	12 do .....	52 00
LaHave Island and West Dublin..	J. Remby.....	5	1	12 do .....	85 00
Lake Ainslie South Side and Lewis Mountain.....	N. Martin.....	4	1	12 do .....	16 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Lake Annis and Railway Station..	A. Whitman....	40 y's	6	12 months.....	20 00
Lakelands and Railway Station....	J. E. Brown....	4	6	12 do .....	60 00
Lake Ramsey and New Ross.....	G. Ross .....	2	4	12 do .....	40 00
Lakevale and West Lakevale.....	A. J. McGillivray	3	4	12 do .....	48 00
Lanesville and Lower Stewiacke....	R. J. Pollock....	16 r. t.	1	9 do (to Dec. 31, '88)..	33 75
Lapland and Newcomb.....	S. Demon.....	18	1	12 do .....	51 00
Larry's River and Port Felix.....	C. DeYoung.....	11	2	12 do .....	100 00
Lawrencetown and Mineville.....	J. Conrad.....	5	1	12 do .....	24 00
Lawrencetown and Mount Hanly, &c	J. Balcom.....	38	1	12 do .....	110 00
Lawrencetown and Railway Station	H. T. James....	4	12	12 do .....	74 00
Lawrencetown and Torbrooke.....	J. Balcom.....	33 r. t.	2	12 do .....	105 00
Lawrencetown and West Inglisville	G. C. Banks.....	8	1	12 do .....	30 00
Lawrencetown and West Lawrence-					
town.....	M. Hiltz.....	4	1	12 do .....	20 00
Leamington and Spring Hill Mines.	G. Nelson.....	4	1	12 do .....	17 48
Leitche's Creek and Upper Leitche's					
Creek.....	M. Beaton.....	5	1	12 do .....	25 00
Lewis Bay and Marion Bridge.....	P. McDougald....	31½ r. t.	3	3 do (to June 30, '88)..	47 25
do do.....	D. J. McKeagan....	31½ r. t.	3	9 do from do .....	173 25
Lewis Head and Sable River.....	W. Herkins.....	8	2	6 do 15 days to Oct. 15, '88.	54 16
Lingan and Sydney.....	J. O'Callaghan....	35 r. t.	6	12 do .....	299 00
Linwood and Railway Station.....	T. W. Kinney....	2	6	12 do .....	84 58
Little Bass River and Pleasant Hills	R. R. Elliot.....	5	2	12 do .....	45 00
Little Bras d'Or and Long Island					
Main.....	N. O'Handley....	6	1	12 do .....	50 00
Little Bras d'Or and Point Aconi..	D. J. Walker....	7	1	12 do .....	50 00
Little Harbor and New Glasgow....	P. Grant.....	6	3	12 do .....	74 00
Little Harbor and Reidway.....	J. R. Reid.....	4	1	12 do .....	20 00
Little Judique and Rear Little Ju-					
dique.....	D. McMillan....	4	1	12 do .....	20 00
Little River and Oxford.....	H. S. Smith....	4	2	12 do .....	47 00
Liverpool and Milton.....	J. F. Putnam....	3	12	12 do .....	100 00
Liverpool and Port Medway.....	A. L. West.....	13	3	12 do .....	360 00
Liverpool and Western Head.....	A. A. Shand.....	7	3	12 do .....	149 00
Loch Broom and Railway Station....	R. McLeod.....	100 y's	2	9 do (from July 1, '88)	15 00
Loch Lomond and Red Islands.....	M. McKenzie....	15	2	12 do .....	98 80
Loch Lomond and Sterling.....	J. Patterson....	7	1	12 do .....	29 00
Loganville and West Branch River					
John.....	S. Williamson....	2	6	12 do .....	60 00
Louisburg and South Louisburg....	M. McRury.....	2½	3	12 do .....	50 00
Lourdes and Railway Station.....	A. McDonald....	¾	12	12 do .....	50 00
Lovat and West River.....	J. W. Fraser....	5	3	12 do .....	109 00
Lower Caledonia, South Side, and					
Pictou Road.....	H. Chisholm....	21½ r. t.	2	6 do (to Sept. 30, '88)..	37 50
Lower Cove and Maccan.....	W. Higgins.....	16	6	10 do (to Jan. 31, '89)..	490 00
do do.....	L. McDonald....	16	6	2 do from do .....	104 33
Lower Five Islands and Lynn.....	G. H. Lewis....	6	2	12 do .....	40 00
Lower Five Islands and Parrsboro..	J. W. Brodrick....	13	6	12 do .....	340 00
Lower L'Ardoise and Point Michaud	T. McGrath.....	4	1	12 do .....	19 00
Lower Meagher's Grant and Meag-					
her's Grant.....	W. McCurdy....	2½	3	12 do .....	39 00
Lower Meagher's Grant and Mus-					
quodoboit Harbor.....	G. Rowlings....	14	1	12 do .....	70 00
Lower Onslow and Truro.....	A. Daggett.....	22 r. t.	3	12 do .....	220 00
Lower River Hébert and Maccan....	C. Carter.....	9½	3	12 do .....	141 08
Lower River Inhabitants and Port					
Hawkesbury.....	A. Blair.....	13	3	12 do .....	165 00
Lower Ship Harbor East and Main					
Post Road.....	J. Monck.....	2	3	9 do (from July 1, '88)	22 50
Lower South River Station and St.					
Andrews.....	D. D. McDonald....	5	6	12 do .....	195 00
Lower Stewiacke and Ry. Station..	W. J. Boomer....	¾	12	12 do .....	72 50
Lower Stewiacke and Ramsay.....	W. Ramsay.....	5	1	12 do .....	25 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Lower Stewiacke and Wittenburg..	J. Crawford.....	8	2	9 months (to Dec. 31, '88)	45 00
do do	E. H. McGregor.	23 r.t.	2 & 1	3 do from do ..	29 25
Lower Wentworth and Wentworth Station.	B. Stevens.....	8	3	12 do .....	69 00
Lower West Jeddore and West Jeddore	L. Blackeney....	3	1	12 do .....	20 00
Lower West Pubnico and Pubnico Harbor	N. D'Entremont.	7	3	12 do .....	124 00
Lunenburg and Second Peninsula	E. Mason.....	5	1	12 do .....	40 00
McCallum Settlement and Upper North River.	A. McCallum....	3	3	11 do (from May 1, '88)	36 66
McCarthy's and Spry Bay.	P. Flaherty.....	2½	3	2 do (from Feb. 1, '89)	7 50
McPherson and Pinedale.	J. McDonald....	5	2	12 do .....	40 00
Mabou and Mabou Harbor Mouth.	D. McDonald....	5	2	12 do .....	28 00
Mabou and Sight Point.	A. McQuarrie....	16	1	12 do .....	51 00
Mahone Bay and Northfield.	A. Lohnes.....	16	1	6 do (to Sept. 30, '88)	47 00
do do	A. C. Zuricker..	16	1	6 do from do ..	49 00
Main-à-Dieu and Scatarie Island.	M. McCuish.....	9	1	12 do .....	150 00
Maitland and Noël.	J. Woodworth..	12	6	12 do .....	274 00
Maitland and Shubenacadie.	A. S. Smith.....	20	6	12 do .....	800 00
Malagash Point and Wallace.	A. McInnis.....	30 r.t.	3	12 do .....	90 00
Malagawatch and River Dennis.	K. McKenzie....	14	2	12 do .....	69 00
Malagawatch and West Bay.	A. McLeod.....	16	3	12 do .....	205 48
Malignant Cove and Merigomishe.	M. McNeil.....	22	6	12 do .....	894 50
Manganese Mines and Valley Station	J. Irving.....	6½	2	9 do (from July 1, '88).	37 50
Margaree Forks and Upper Settlement Middle River.	T. Coady.....	18	2	6 do (to Sept. 30, '88)	65 00
do do	N. McDaniel....	18	2	6 do from do ..	65 00
Margaretville and Middleton.	R. Woodbury..	22 r.t.	3	12 do .....	149 00
Margaretville and Morden.	J. Redgate.....	14	1	12 do .....	59 00
Marion Bridge and Trout Brook.	D. Lamond.....	5	1	12 do .....	33 32
Marshalltown and Ry. Station.	W. Marshall....	1½	12	12 do .....	97 00
Marshy Hope and Ry. Station.	A. McDonald....	100 y's	3	12 do .....	30 00
Marydale and St. Andrews.	D. Forbes.....	4	1	12 do .....	32 00
Mattatall's Lake and Tatamagouche.	A. Patriquin....	9	1	12 do .....	40 00
Mavillette and Yarmouth.	N. Bishop.....	20	6	12 do .....	374 00
Meiklefield and Sutherland's Mills.	W. McDonald....	4	1	12 do .....	38 00
Merigonishe and Railway Station.	J. W. Dunn.....	½	12	12 do .....	96 00
Meteghan and Railway Station.	E. E. Sheehan..	5½	12	12 do .....	200 00
Meteghan Station and Ry. Station.	F. Geddry.....	½	12	12 do .....	40 00
Middle Musquodoboit and Moose River Gold Mines.	J. Jennings....	14	2	12 do .....	115 00
Middle Musquodoboit and Murchyville	W. McCurdy....	5	2	12 do .....	49 00
Middle Musquodoboit and Newcomb Corner.	G. McLeod.....	9	1	12 do .....	48 00
Middle Musquodoboit and Wyse's Corner.	W. McCurdy....	27 r.t.	3	12 do .....	156 00
Middle River and West Side Middle River.	L. McLeod.....	4	1	3 do (to June 30, '88).	4 50
Middleton and Nictaux Falls.	W. H. Nixon....	4½	6	9 do (to Dec. 31, '88)	81 75
do do	do	13 r.t.	6	3 do from do ..	39 36
Middleton and Port George.	W. Mosher.....	8	3	3 do (to June 30, '88)	22 50
do do	R. G. Anderson.	8	3	9 do from do ..	93 75
Middleton and Railway Station.	J. Gullivan.....	½	12	12 do .....	60 00
Milford Station and Ry. Station.	G. L. Colter....	½	12	12 do .....	40 00
Mill Road and New Ross.	G. Ross.....	5	1	12 do .....	40 00
Minudie and River Hébert West Side.	T. Mack.....	7	6	12 do .....	315 00
Monk's Head and Pomquet Chapel.	F. Boudroit....	2½	2	3 do (to June 30, '88).	7 50
do do	do	2½	3	9 do from do ..	33 75
Mooseland and Tangier.	J. M. Prest.....	13	1	12 do .....	50 00
Morden and Victoria Harbor.	S. Balcom.....	3	1	12 do .....	24 00
Moser's River and West River Sheet Harbor.	J. H. Dimock..	25	3	7 do 16 days, (from Aug., 16, '88).	375 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Mountain Road and River John...	R. Holt. ....	3	2	12 months	30 00
Mount Cusack and Sydney	H. Cusack. ....	7	1	12 do	35 00
Mount Denison and Ry. Station	M. J. Shaw. ....	4	6	12 do	80 00
Mount Thom Settlement and Salt Springs.	A. McKay. ....	6	2	12 do	70 00
Mount Uniacke and Mount Uniacke Gold Mines	W. Allen. ....	4	3	6 do (to Sept. 30, '88).	30 00
do do	J. Patriquin. ....	4	3	6 do from do	30 00
Mount Uniacke and Oland	C. G. Oland. ....	22 r. t.	2	6 do (to Sept. 30, '88).	60 00
do do	E. Pentz. ....	22 r. t.	2	6 do from do	60 00
Mount Uniacke and Ry. Station	J. McLaren. ....	135 y's	12	do	50 00
Musquodoboit Harbor and Petpeswick Harbor	B. Young. ....	6	3	12 do	65 00
Musquodoboit Harbor and Pleasant Point	R. J. Stevens. ....	11	2	12 do	110 00
Nappan Station and Ry. Station	A. C. Barry. ....	75 yds.	12	12 do	80 00
New Campbellton and New Harris	D. Morrison. ....	5	1	12 do	30 00
New Campbellton and North Sydney	L. Kehoe. ....	20	3	12 do	340 00
New Cumberland and West LaHave Ferry	H. Corkum. ....	9½ r. t.	1	12 do	38 48
New Edinburgh and Weymouth Bridge	A. Deveau. ....	5½	2	12 do	55 00
New Glasgow and Pictou Landing	J. W. Church. ....	9	6	9 do (to Dec. 31, '88)..	234 00
New Glasgow and Railway Station	do	4	42	12 do	437 48
New Glasgow and Thorburn	F. Love. ....	5	6	12 do	200 00
New Glasgow and Trenton	A. M. Fraser. ....	1½	6	9 do (to Dec. 31, '88).	90 75
do do	J. W. Church. ....	1½	6	3 do from do	25 00
New Glasgow and Upper Cross Roads St. Marys	J. Fraser. ....	43	3	12 do	694 00
Newport and Newport Landing	J. Weir. ....	17 r. t.	4	12 do	225 00
Newport and Newport Station	W. Gibson. ....	5	6	12 do	190 00
Newport and South Rawdon	J. W. Hennesey. ....	24	1	12 do	73 00
Newport and Upper Newport	do	10½	1	12 do	35 00
Newport and Walton	E. A. Bancroft. ....	20	6	12 do	778 64
Newport Station and Ry. Station	L. H. Sweet. ....	12 yds.	24	12 do	50 00
New Ross and Stoddart's	G. Ross. ....	26	2	12 do	173 00
New Ross and Vaughan's	B. Boylan. ....	15	2	12 do	139 00
Newville and Railway Station	C. W. Young. ....	20 yds.	12	9 do (to Dec. 31, '88)..	7 50
do do	D. P. Young. ....	20 yds.	12	3 do from do	2 50
Noël and Shubenacadie	J. W. Singer. ....	32	1	12 do	153 00
Noël and Walton	J. Murray. ....	14	6	12 do	284 00
North End Lochaber and West Side Lochaber	J. A. Stewart. ....	3	3	12 do	50 00
North Range Corner and Ry. Station	C. B. McNeill. ....	½	12	12 do	60 00
North Range Corner and South Range	J. E. Marshall. ....	3	2	12 do	40 00
North River Bridge and South Gut St. Ann's	A. G. Morrison. ....	14	2	6 do (from Oct. 1, '88).	54 08
North River Bridge and Tarbut	A. Morrison. ....	3	3	6 do do	13 00
North Side Grand Narrows and South Side Grand Narrows	H. A. Archibald. ....	1	6	12 do	400 00
North Sydney and Port Hastings	do	87	6	12 do	5,005 04
North West Arm and Rear Ball's Creek	G. K. Ball. ....	3	1	12 do	13 00
Norwood and Railway Station	D. A. Saunders. ....	100 y's	6	12 do	30 00
Nyanza and West Side Middle River	A. McLennan. ....	4	2	9 do (from July 1, '88)	26 25
Oakfield and Railway Station	J. Ferguson. ....	4	2	6 do (to Sept. 30, '88).	20 00
do do	H. D. McLeod. ....	4	12	6 do from do	20 00
Oban and St. Peters	R. Morrison. ....	16 r. t.	2	12 do	70 00
Odin and Stewiacke Cross Roads	S. Deyarmond. ....	7½	2	12 do	110 00
Old Bridgeport Mines and Main Post Road	F. J. Mitchell. ....	1	6	12 do	40 00
Onslow Station and Railway Station	A. McCurdy. ....	4	12	12 do	50 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Outer Island Port Hood and Port Hood.....	W. D. Smith.....	3	3	12 months.....	30 00
Oxford and Railway Station.....	N. S. Thompson.....	3½	12	12 do.....	400 00
Oxford and Rocky.....	J. A. Fraser.....	11	1	3 do (to June 30, '88).....	11 25
do do.....	A. Cameron.....	11	1	3 do do.....	10 00
do do.....	W. E. Burnside.....	10	1	9 do from do.....	67 50
Paradise Lane and Railway Station.....	W. F. Morse.....	11	1	12 do.....	60 00
Paradise Lane and Roxbury.....	W. Gornley.....	7	1	12 do.....	35 00
Parrsboro' and Partridge Island.....	J. W. Jenks.....	2	6	12 do.....	100 00
Parrsboro' and Railway Station.....	do.....	½	12	12 do.....	50 00
Parrsboro and Three Sisters.....	E. D. Fullerton.....	45	6	12 do.....	1,166 64
Parrsboro and Two Islands.....	T. W. McKay.....	6½	2	12 do.....	65 00
Pictou and Pictou Island.....	J. Currie.....	12	1	12 do.....	255 00
Pictou and Pictou Landing.....	G. J. Christie.....	1½	6	3 do (from Jan. 1, '89).....	58 75
Pictou and Railway Station.....	W. McDonald.....	4	36	12 do.....	225 00
Pictou and River John.....	W. Gammon.....	20	6	12 do.....	475 00
do do (via Shore).....	D. M. Geldert.....	29	2	12 do.....	350 00
Pictou and Truro.....	W. Gammon.....	50	3	12 do.....	895 00
Pictou and West River Station.....	T. G. Anderson.....	23	3	4 do (to July 31, '88).....	103 00
do do.....	do.....	25½	3	8 do from do.....	228 37
Pictou and Wharf.....	D. Flynn.....	1	1	Season 1888-89.....	27 60
Piedmont Valley and Ry. Station.....	J. McDonald.....	4	3	12 months.....	15 00
Pine Tree and Railway Station.....	R. Mitchell.....	1½	3	12 do.....	60 00
Pirate Harbor and Railway Station.....	R. Peeples.....	3	12	12 do.....	80 00
Pleasant Valley and Ry. Station.....	L. Craig.....	1½	2	12 do.....	50 00
Plympton and Railway Station.....	J. L. Warner.....	3	12	12 do.....	140 00
Point Edward and Sydney.....	D. Beaton.....	8	1	12 do.....	40 00
Pomquet Chapel and Ry. Station.....	C. Duong.....	2	6	12 do.....	70 00
Point Acadie and Railway Station.....	V. Thibodeau.....	2½	12	12 do.....	150 00
Port Beckerton and Port Hillford.....	G. S. Taylor.....	8	1	12 do.....	52 00
Porter's Lake and West Chezzetcook.....	G. E. Ormon.....	3	3	12 do.....	40 00
Port Hastings and Port Hawkesbury.....	A. McDonald.....	3½	12	12 do.....	220 00
Port Hastings and Railway Wharf.....	H. A. Archibald.....	4	12	12 do.....	156 00
Port Hastings Railway Wharf and Port Hawkesbury.....	A. McDonald.....	3½	As req	42 trips.....	42 00
Port Hawkesbury and Ry. Wharf.....	do.....	4	12	12 months.....	156 00
do do.....	A. A. Beaton.....	4	As req	Season 1888.....	26 60
Port Hawkesbury and Steamer.....	A. McDonald.....	4	As req	do.....	15 00
Port Hawkesbury and Sydney.....	J. Morrison.....	100	6	12 months.....	5,724 88
Port Hawkesbury Railway Wharf and Point Tupper.....	A. McDonald.....	1	As req	Season 1888.....	67 80
Port Hood and Port Hood Island.....	J. Smith.....	1½	2	12 months.....	24 00
Port Joli and St. Catherines River.....	L. Robertson.....	6	1	12 do.....	40 00
Port Matoon and South West Port Matoon.....	C. Thérien.....	4	1	12 do.....	25 00
Port Mulgrave and Ry. Wharf.....	R. Trites.....	½	12	12 do.....	80 00
Port Philip and Pugwash.....	G. King.....	4½	3	12 do.....	60 00
Port Royal and West Arichat.....	A. McDonald.....	3	3	12 do.....	100 00
Port Williams and Port Williams Station.....	J. L. Bishop.....	1	6	12 do.....	70 56
Port Williams and Town Plot.....	E. Burbidge.....	2½	3	12 do.....	55 00
Port Williams Station and Railway Station.....	F. E. Forsyth.....	12yds.	24	12 do.....	62 60
Port Williams Station and White Rock Mills.....	W. O. Bishop.....	4½	3	3 do (to June 30, '88).....	16 75
Port Williams Station and White Rock Mills.....	J. L. Bishop.....	4½	3	9 do from do.....	50 25
Preston and Main Post Road.....	D. Deloughey.....	4	6	12 do.....	60 00
Princeport and Truro.....	J. Yuill.....	16 r. t.	6	3 do (to June 30, '88).....	68 02
do do.....	J. D. Nelson.....	16 r. t.	6	9 do from do.....	180 00
Pugwash and Thompson's Mills.....	J. R. Lamy.....	15½	6	12 do.....	461 88
Quinan and Tusket.....	L. Porter.....	12	2	12 do.....	90 00

DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Rear Black River and West Bay...	M. Morrison...	16 r. t.	1	6 months (to Sept. 30, '88)	19 24
do do	do	4	2	6 do from do	35 00
River Bourgeoise and River Tear...	J. Murphy...	3	6	12 do	119 00
Riversdale and Weymouth Bridge...	J. H. Sabine...	10	1	12 do	40 00
River Hebert, West Side, and Shulie	B. Baird...	14	3	12 do	273 00
River Inhabitants Bridge and West Bay	P. McFarlane...	5	6	12 do	145 00
River John and Tatamagouche...	J. McLeod...	13	6	12 do	400 00
River John and Welsford...	D. McGillivray...	3	3	5 do (from Nov. 1, '88.)	16 66
River Philip Station and West Branch River Philip...	M. Chapman...	5	6	12 do	180 00
Riversdale and Railway Station...	B. A. Wall...	$\frac{1}{10}$	12	12 months	44 00
Riversdale and Upper Kemptown...	K. J. McLean...	$8\frac{1}{2}$	2	12 do	163 20
Rockingham and South Ohio...	J. E. Allen...	20	3	12 do	225 00
Rockingham Station and Ry. St'n.	T. Payne...	$1\frac{1}{2}$	12	12 do	40 00
Roman's Valley and St. Andrews...	W. A. McDonald...	15	3	12 do	177 00
Round Hill and Railway Station...	C. E. Spurr...	$\frac{1}{4}$	12	12 do	50 00
St. Andrews and Vernal...	L. Cameron...	5	2	12 do	53 00
St. Peters and West Bay...	A. McDougall...	28	3	12 do	285 00
Sable River and Swansburg...	W. Herkins...	$10\frac{1}{2}$	3	5 do 17 days (from Oct. 15, '88), (to Jan. 31, '89)..	91 66 37 50
Salem and Yarmouth	A. Bain...	2	6	10 do	
Salmon River and Sheet Harbor Passage	W. C. Wambold...	$7\frac{1}{2}$	2	12 do	128 56
Salt Springs Station and Ry. Station	J. W. Black...	20 yds	12	12 do	20 00
Sandford and Yarmouth...	N. L. Trefry...	20 r. t.	2	12 do	123 72
Sand River and Shulie	E. J. White...	7	2	1 do (to April 30, '88).	9 58
do do	do	7	3	6 do (to Oct. 31, '88)..	82 50
do do	do	7	2	5 do from do	47 91
Saulnierville and Railway Station...	T. Saulnier...	$1\frac{3}{4}$	12	12 do	100 00
Scotch Village and Woodville...	S. Cochrane...	10 r. t.	1	12 do	45 00
Shad Bay and (White's) Prospect Rd	C. Christian...	2	2	3 do 27 dys. (to July 27, '88).	4 85
do do	do	2	4	8 do 4 dys. (from July 28, '88)...	20 35
Shelburne and Upper Ohio...	W. G. Swinesburg...	36 r. t.	1	12 do	78 00
Shelburne and Yarmouth...	O. S. Davison...	70	6	9 do (to Dec. 31, '88)..	1,425 00
Sherbrooke and West River, Sheet Harbor...	J. Cumming...	60	3	12 do	800 00
Ship Harbor Lake and Ship Harbor Lake (Circular Route).	J. W. Webber...	23 r. t.	1	12 do	100 00
Shubenacadie and Railway Station...	A. Kirkpatrick...	100 yd	30	12 do	100 00
Six Mile Brook and West River...	J. McKay...	5	2	12 do	30 00
Six Mile Road and Wallace Grant...	C. Cook...	6	3	12 do	60 00
Skye Mountain and Whycomagh...	A. G. Nicholson...	6	1	12 do	30 00
Sluice Point and Surette Island...	N. Surette...	2	1	12 do	25 00
Sluice Point and Tusket...	W. D. Van Norden...	6	1	12 do	51 00
Southampton and Railway Station...	J. Megeny...	$\frac{1}{4}$	12	12 do	115 00
South Branch and Upper Stewiacke...	C. P. McCulloch...	19 r. t.	3	12 do	100 00
South Farnington and Ry. Station...	D. E. McGregor...	$1\frac{1}{2}$	12	12 do	70 00
South Gut, St. Ann's, and Tarbut...	A. G. Morrison...	14	2	6 do (to Sept. 30, '88).	54 08
South Harbor and White Point...	J. McPherson...	9	2	12 do	95 00
South Merland and Tracadie...	M. Delorey...	8	1	12 do	34 00
South Ohio and Railway Station...	W. Crosby...	$\frac{1}{8}$	12	12 do	40 00
South West Margaree and Upper Margaree...	J. S. McDonald...	4	2	12 do	34 48
Spring Hill Junction and Ry. Station...	J. A. Dunn...	$\frac{1}{4}$	12	12 do	40 00
Spring Hill Mines and Ry. Station	M. C. Cooper...	$\frac{1}{2}$	18	9 do (to Dec. 31, '88)..	101 25
do do	J. Anderson...	$\frac{1}{2}$	18	3 do from do	45 00
Spring Hill Mines and Windham Hill...	A. A. Schurman...	7	2	12 do	80 00
Stellarton and Railway Station...	J. Bartley...	$\frac{1}{4}$	36	12 do	225 00
Strathlorne and Whycomagh...	N. McMillan...	49 r. t.	2	12 do	250 00
Tatamagouche and Waugh's River...	J. Lombard...	12 r. t.	3	12 do	140 00



DETAIL of all payments for Mail Transportation in Nova Scotia, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Tatamagouche and Wentworth St'n	A. Purdy.....	20	6	12 months.....	440 00
The Falls and West New Annan...	D. C. Byers.....	9	3	12 do.....	163 00
Thompson's Mills and Westchester.	F. J. Purdy.....	13	2	12 do.....	150 00
Thorburn and Merigonishe Station..	H. McDonald.....	5	6	6 do (to Sept. 30, '88).	90 00
do do	F. Love.....	5	6	6 do from do ..	119 50
Torbrooke and Tremont.....	W. Brown.....	5	1	12 do.....	50 00
Tracadie and Railway Station.....	P. Delorey.....	$\frac{1}{2}$	12	12 do.....	60 00
Trafalgar P. O. (old site) and Trafalgar P. O. (new site).....	J. McDonald.....	2	2	12 do.....	26 00
Truro Railway Station and Street Letter Boxes.....	J. G. Miller.....	60 & 18	5	do (to Aug. 31, '88).	75 00
Truro Railway Station and Street Letter Boxes.....	C. B. Archibald.....	60 & 18	7	do from do ..	233 33
Tupperville and Railway Station.....	D. S. Chipman.....	$\frac{1}{4}$	12	12 do.....	50 00
Tusket Wedge and Yarmouth.....	B. Le Blanc.....	12	3	2 do (to May 31, '88)..	31 25
do do	do.....	12	6	10 do from do ..	166 66
Upper Musquodoboit and West River Sheet Harbor.....	J. A. Logan.....	26	3	12 do.....	398 00
Upper Newport and Woodville.....	E. Sweet.....	$\frac{1}{4}$	1	12 do.....	13 00
Valley Station and Railway Station	M. Johnson.....	600 y's	12	12 do.....	40 00
Waterville and Railway Station.....	J. S. Pineo.....	70 y's	12	12 do.....	50 00
Waterville and South Waterville....	F. Parrish.....	11 r. t.	1	12 do.....	32 00
Waverley and Windsor Junction.....	J. Otto.....	3	6	12 do.....	130 00
Wentworth Creek and Windsor	J. Trider, sr.....	2 $\frac{1}{2}$	3	12 do.....	70 00
Wentworth Station and Railway Station.....	A. Barclay.....	135 y's	12	12 do.....	60 00
Westbrook and Railway Station.....	J. C. Taylor.....	1	12	12 do.....	104 00
Westbrook Mills and Railway Station.....	S. Roscoe.....	1	12	12 do.....	100 00
West Merigonishe and Railway Station.....	J. R. McDonald.....	1	6	12 do.....	40 00
West River and Westville.....	J. Munro.....	9	3	3 do (to June 30, '88).	45 00
West River Station and Railway Station.....	D. Graham.....	75 y's	12	12 do.....	40 00
Westville and Railway Station.....	J. Maxwell.....	$\frac{1}{4}$	24	12 do.....	120 00
Weymouth and Railway Station.....	C. D. Jones.....	1 $\frac{1}{2}$	12	12 do.....	156 00
Weymouth Bridge and Railway Station.....	G. J. Hoyt.....	$\frac{1}{4}$	12	12 do.....	40 00
Wilmot and Railway Station.....	E. Cummingier.....	1 $\frac{1}{2}$	12	12 do.....	95 00
Windsor and Railway Station.....	P. Burnham.....	$\frac{1}{2}$	24	12 do.....	280 00
Windsor Junction and Railway Station.....	P. Hessian.....	$\frac{1}{8}$	36	12 do.....	80 00
Windsor Junction—I. C. Ry. and W. & A. Ry.....	do.....	20 y's	6	12 do.....	60 00
Windsor Junction—I. C. Ry. and W. & A. Ry.....	W. Herbert.....	20 y's	6	12 do.....	60 00
Wolfville and Railway Station.....	G. V. Rand.....	$\frac{1}{8}$	24	12 do.....	100 00
Woodbourne and Railway Station.....	T. J. Christison.....	1 $\frac{1}{2}$	2	12 do.....	50 00
Yarmouth and Railway Station.....	A. Bain.....	$\frac{1}{2}$	12	12 do.....	149 00
Yarmouth and Street Letter Boxes.	A. J. Hood.....	.....	12	9 do (from July 1, '88)	90 00
Total.....					\$122,126 16

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

DETAIL of all payments for Mail Transportation in Nova Scotia, made within the Year ended 30th June, 1889.

CONVEYANCE OF MAILS BY STEAMBOATS AND SAILING VESSELS.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Annapolis and Digby.....	G. E. Corbitt.....	17	6	12 months (to March 31, 1889, and extra trips).....	\$ cts. 5,500 00
Barrington Passage and Yarmouth.....	W. H. Cook.....	53	2	Season 1888.....	300 00
East Bay, Grand Narrows and Sydney.....	Bras d'Or Steam Navigation Co.....	26 & 40	1 & 6	do.....	228 60
Halifax and Boston, U.S. (half of postage collected).....	J. F. Phelan & Son, Agents.....	400	1	do.....	400 00
Halifax and Newfoundland.....	F. D. Corbett & Co.....	520	Fortnightly	do.....	2,100 00
North Sydney and Sydney.....	A. C. Ross.....	5	6	do.....	100 00
Halifax and St. Pierre.....	Anglo-French Steamship Co.....	439	Fortnightly	(In addition to subsidy).....	500 00
Halifax and St. John <i>via</i> Yarmouth.....	Yarmouth Steamship Co.....	292	1	do.....	1,875 00
Port Mulgrave and East Bay, &c.....	F. W. Fraser.....	117	1	do.....	500 00
Port Mulgrave, Arichat and Canso, &c.....	Bras d'Or Steam Navigation Co.....	75 & 108	6 & 3	do.....	1,218 00
Yarmouth and Boston, U.S. (portion of postage collected).....	R. Macdonald.....	40, 30 & 25	6	do.....	219 51
	Yarmouth Steamship Co.....	240	2	Season 1888.....	867 66
					\$13,808 77

N.B.—For Special Mail Subsidies and Steamship Subventions, see page 9.

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

DETAIL of all payments for Mail Transportation in Nova Scotia, made within the year ended 30th June, 1889.  
CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Cumberland Railway and Coal Co.....	32	6	12 months (to 31st March, 1889).....	\$ cts. 892 32
Eastern Extension Railway (including ferrage).....	80	6	12 do do .....	5,793 60
Intercolonial Railway (within Nova Scotia).....	196	With varying frequency over different sections of the line.....	15 do (to 30th June, 1889, and arrears)..... 12 do (to 31st March, 1889).....	33,810 00 3,344 64
Western Counties Railway Co.....	67	6	12 do do .....	8,261 76
Windsor and Annapolis Railway Co.....	130	6	Total.....	\$52,102 32

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c.,  
in Nova Scotia, made within the Year ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		\$ cts.
S. & H. Borbridge.....	Mail bags, labels and repairs for Post Office Department.	528 79
E. Chanteloup .....	Mail locks and keys for do ..	15 75
Miller Lock Co .....	do do do ..	7 80
Smith & Egge Manufacturing Co ..	do do do ..	3 50
T. Forhan & Co.....	Repairing mail bags for Postmaster, Halifax.....	15 66
H. B. Fidler.....	do do do .....	14 40
	Total.....	\$585 90

WILLIAM WHITE,

Deputy Postmaster-General.

W. H. SMITHSON,

Accountant.

## PROVINCE OF NEW BRUNSWICK.

DETAIL of all payments for Mail Transportation in New Brunswick, made within the year ended 30th June, 1889.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Acadie, Acadie Siding and Railway Station.....	S. Legère.....	10	2	12 months.....	99 00
Adamsville and Railway Station.....	J. M. Kennedy.....	1 <sup>1</sup> / <sub>2</sub>	12	12 do.....	40 00
Albert and Elgin.....	J. Garland.....	26	1	12 do.....	208 00
Albert and Harvey Bank.....	R. Smith.....			Special trips.....	2 50
do do.....	A. Copp.....			do.....	0 50
Albert and Hopewell Hill.....	N. C. Atkinson.....			do.....	0 50
Albert and Lumsden.....	B. W. Filmore.....	7	1	12 months.....	28 25
Albert and Point Wolf.....	J. Fletcher.....	20	6	6 do (to Sept. 30, '88).....	233 50
do do.....	A. Copp.....	20	6	6 do from do.....	295 04
do do.....	R. C. Atkinson.....	20	6	10 days (to Oct. 10, '88).....	33 00
Albert and Railway Station.....	do.....	<sup>1</sup> / <sub>4</sub>	12	12 months.....	75 00
Albert Mines and Railway Station.....	G. Woodworth.....	<sup>1</sup> / <sub>4</sub>	12	12 do.....	30 00
Aldouane and Richibucto.....	P. Richard.....	8	2	12 do.....	46 48
Alexander's Point and Lameque.....	C. Chiasson.....	3 <sup>1</sup> / <sub>2</sub>	1	9 do (from July 1, '88).....	18 75
Alexander's Point and Miscou Light House.....	C. Vibert.....	26	2	12 do.....	285 00
Alexander's Point and Shippigan.....	R. Dugue.....	3	3	12 do.....	150 00
Alexandrina and Notre Dame.....	A. L. Hébert.....	4	1	12 do.....	20 80
Alison and Moncton.....	W. T. Jones.....	9	1	12 do.....	55 00
Allandale and Poquiock.....	D. Connelly.....	6	1	12 do.....	35 00
Alma and Hastings.....	J. E. McQuaid.....	4	1	12 do.....	26 00
Anagance and Corn Hill.....	S. L. Stockton.....	6	2	12 do.....	68 00
Anagance and Elgin.....	E. A. Robinson.....	18	2	12 do.....	144 00
Anderson and Upper Sackville.....	D. Wheaton.....	22	1	9 do (from July 1, '88).....	69 75
Andover and Fort Fairfield, U.S.....	J. Sloat.....	7	2	12 do.....	96 00
Andover and Railway Station.....	J. C. McCluskey.....	<sup>1</sup> / <sub>4</sub>	12	9 do (to Dec. 31, '88).....	37 50
do do.....	J. A. Perley.....	1	12	3 do from do.....	12 50
Annidale and English Settlement.....	J. H. Langley.....	4	2	12 do.....	47 00
Apoahqui and Case Settlement.....	G. Z. Parlee.....	10	1	12 do.....	50 00
Apoahqui, Collina and Pearson's.....	J. Wiles.....	11, 14 & 17	3 & 2	12 do.....	177 12
Apoahqui and Erb Settlement.....	H. E. Sinnott.....	4	1	12 do.....	44 20
Apoahqui and Railway Station.....	J. A. Sinnott.....	100yd.	12	12 do (and arrears).....	73 95
Armstrong and Waterford.....	J. Gray.....	8	1	12 do.....	45 72
Armstrong's Brook and Jacquet River Station.....	W. Barclay.....	1	12	12 do.....	50 00
Armstrong's Brook and River Louison.....	do.....	3	6	12 do.....	175 00
Armstrong's Corner and Round Hill.....	R. Corbett.....	20	2	12 do.....	230 00
Aroostook Junction and Railway Station.....	D. B. Hopkins.....	<sup>1</sup> / <sub>8</sub>	12	12 do.....	50 00
Aroostook Portage and California.....	D. Murchison.....	2	1	12 do.....	25 00
Back Bay and St. George.....	A. J. Seely.....	11	3	12 do.....	224 88
Bairdsville and Beaconsfield.....	H. Baird.....	11	1	12 do.....	55 00
Baie Verte and Baie Verte Road.....	A. F. Copp.....	4	2	7 do 17 dys (from Aug. 15, 1888).....	25 00
Baie Verte and Railway Station.....	A. C. A. Wefls.....	<sup>1</sup> / <sub>2</sub>	12	7 do do.....	37 50
Barachois and Lower Abougoggin.....	H. Gallang.....	11 <sup>1</sup> / <sub>2</sub>	1	12 do.....	44 48
Barnaby River and Railway Station.....	M. McDonald.....	<sup>1</sup> / <sub>6</sub>	12	12 do.....	30 00
Bartibog and Chatham.....	J. Doyle.....	12	1	12 do.....	40 00
Bartlett's Mills and Railway Station.....	J. Bartlett.....	<sup>1</sup> / <sub>4</sub>	6	12 do.....	90 00
Bass River and South Branch.....	J. A. Campbell.....	16	3	12 do.....	269 00
Bath, Johnville and Kilfoil.....	G. Giberson.....	8 & 3 <sup>1</sup> / <sub>2</sub>	2 & 1	12 do.....	85 00
Bath and Railway Station.....	T. Bohan.....	<sup>1</sup> / <sub>2</sub>	12	12 do.....	60 00
Bathurst and Bathurst Village.....	S. P. Melanson.....	1	3	9 do (from July 1, '88).....	29 25
Bathurst and Caraquet.....	J. Foley.....	42	6	6 do (to Sept. 30, '88).....	487 50
Bathurst and Railway Station.....	S. P. Melanson.....	2	18	12 do (and extra trips).....	132 57
do do.....	do.....	2	3	12 do.....	39 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Bathurst Village and Dumfries	J. Nicol	6	1	3 months (to June 30, '88)	7 75
Bathurst Village and Dunlop	do	9	1	9 do (from July 1, '88)	34 86
Bathurst Village and Tête à Gauche River (south side)	A. Branch	10 & 8	1	12 do	39 48
Bathurst Village and Youghal	R. Anderson	3	3	12 do	50 00
Bay du Vin and Chatham	H. Sinclair	25½	2	12 do	221 72
Bay du Vin and Point Escuminac	E. Nowlan	21	2	12 do	220 00
Bay du Vin Mills and Upper Bay du Vin	W. Dickins	5	1	12 do	40 00
Bayfield and Port Elgin	E. D. Silliker	15 & 20	3	4 do 15 days (to Aug. 15, '88)	58 50
Bayfield, Port Elgin and Spence	J. H. Trenholm	24 & 7	2 & 1	4 do 14 days (to Aug. 14, '88)	63 75
Bayfield and Railway Station	F. Harper	1½	6	7 do 17 days (from do)	46 87
Bayside and St. Andrews	J. Richardson	7	2	12 do	100 00
Bear Island and Scotch Lake	J. Sinnett	4	1	12 do	27 00
Beaufort and Highlands	J. Gray	9	3	3 do (to June 30, '88)	27 50
do do	T. Harvey	9	3	9 do from do	82 50
Beaver Dam and Rusagornis	W. Haining	5	1	12 do	26 00
Beaver Harbor and Black's Harbor	G. W. Cross	3	1	12 do	35 00
Beaver Harbor and Pennfield Ridge	F. Elridge	4	3	12 do	149 48
Belledune and Belledune River	D. McCurdy	4	3	12 do	75 00
Belledune and Railway Station	S. Chalmers	1	12	12 do	80 00
Belleisle Creek and Norton Station	J. M. Haggard	7	2	12 do	57 00
Belliveau Village and St. Joseph	S. Bourgeois	7	2	12 do	70 00
Belyea's Cove and Heustis Landing	J. B. Mott	2	2	12 do	39 00
Benton and Railway Station	A. J. Teed	50 yds	12	12 do	20 00
Beresford and Railway Station	J. Aubé	100 yd	6	12 do	35 00
Biggar Ridge and Foreston	W. H. Staten	4	1	12 do	25 00
Birch Ridge and Red Rapids	C. Roberts	4	1	12 do	35 00
Black Crook and Chatham	A. Manderson	6	4	12 do	130 00
Black Lands and River Charlo	W. Cook	3	3	12 do	38 00
Black Point and New Mills	P. Devereux	4	3	12 do	45 96
Black Rock and Three Brooks	L. Reed	1½	2	12 do	25 00
Blackville and Coughlan	D. Coughlan	4	1	12 do	26 00
Blackville and Shinnickburn	W. T. Underhill	18	1	12 do	120 00
Blackville and Underhill	do	2	3	2 do (from Feb. 1, '89)	8 67
Blair Athol and Dalhousie	J. McIntyre	17	1	12 do	90 00
Blakely and Enniskillen Station	J. Blakely	3	2	12 do	45 00
Bloomfield and Railway Station	N. Wetmore	3	12	12 do	56 00
Bloomfield Ridge and Boiestown	A. Fairley	10	1	12 do	59 00
Bloomfield Station and Central Norton	N. Wetmore	3½	3	12 do	65 00
Bloomfield Station and Ry. Station	T. W. Kierstead	1½	12	12 do	20 00
Bocabec and St. Andrews	P. McLaughlin	9	3	12 do	195 00
Boiestown and Parker's Ridge	J. W. Parker	5	1	12 do	25 00
Bon Accord and Kincardine	D. Burns	5	2	12 do	80 00
Bonny River Station and Elmercroft	G. F. Williams	6	1	12 do	45 00
Bonny River Station and Railway Station	G. Matheson	4	12	12 do	24 00
Boudreau Village, Rockland and Rockland Station	J. Sutherland	1 & 4½	2 & 6	12 do	232 04
Boundary Creek and Ry. Station	R. B. C. Weldon	½	12	12 do	30 00
Boundary Creek and Steeve's Mountain	do	3½	1	12 do	38 00
Bourgeois, Grandique and Poirier's	R. Poirrier	4 & 2	1 & 3	12 do	90 00
Breadalbane and New Mills Railway Station	A. McNair	1	12	12 do	50 00
Brigg's Corner and Sheffield	H. L. Bailey	38	2	12 do	340 00
Bristol and Highlands	J. Toocy	11	3	12 months	197 00
Bristol and Railway Station	J. Boyer	½	12	9 do (to Dec. 31, '88)	18 75
do do	J. J. Hayward	½	12	3 do from do	11 25
Brownsville and Stewarton	A. McGregor	5	1	12 do	25 84
Buctouche and McLaughlan Road	T. Roberts	16 & 30	2	12 do	180 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Buctouche and Richibucto.....	T. Roberts.....	18	3	12 months.....	228 00
Buctouche and St. Castin.....	L. Sawyer.....	6½	1	12 do.....	30 00
Buctouche and St. Jean Baptiste.....	F. X.J. Michaud.....	1½	6	10 do (fr'm June 1, '88)	25 00
Buctouche and Shediac.....	J. D. Weldon.....	22	6	12 do.....	494 00
Bull Moose Hill and Springfield.....	W. E. Benson.....	5	1	12 do.....	15 60
Bumfron, Mineral and Ry. Station.....	A. J. Kearney.....	5 & ¾	1 & 12	12 do.....	70 00
Burnt Church and Church Point.....	F. McKnight.....	4	3	12 do.....	40 00
Butternut Ridge and Carsonville.....	H. F. Price.....	15	1	12 do.....	93 00
Butternut Ridge, New Canaan and Forks.....	A. Perry.....	12 & 3	2 & 1	12 do.....	128 00
Butternut Ridge and Ry. Station.....	A. E. Killam.....	¾	6	12 do (and arrears)...	51 67
Caledonia, Turtle Creek and Railway Station.....	G. D. Reed.....	17 & ¼	2	12 do.....	97 96
Calhoun and Railway Station.....	T. B. Calhoun.....	¾	12	12 do.....	25 00
Cameron's Mills and St. Louis de Kent.....	A. Babineau.....	10	2	12 do.....	95 00
Campbell Settlement and Lower Southampton.....	J. C. Munro.....	6	2	12 do.....	45 48
Campbellton and Railway Station.....	A. McLean.....	1	13	3 do (to June 30, '88, & extra trips)	52 23
do do.....	G. Cumming.....	1	13	9 do from do and extra trips..	124 42
Campo Bello and Wilson's Beach.....	J. Brown.....	7	1	12 do.....	75 00
Canaan Station and Ry. Station.....	J. I. Bernard.....	¾	12	12 do.....	20 00
Canaan Station and Sweeneyville.....	J. P. Bernard.....	8 & 12	2	12 do.....	80 00
Canobie and Clifton.....	W. Glendinning.....	3	1	12 do.....	30 00
Canterbury and Woodstock.....	J. W. Scott.....	12	2	12 do.....	148 00
Canterbury Station and North Lake.....	J. W. Dickinson.....	22	2	12 do.....	250 00
Canterbury Station and Ry. Station.....	C. G. Main.....	100 yd	12	12 do.....	50 00
Cape de Moselle Creek and Railway Station.....	J. Wilson.....	1½	12	12 do.....	25 00
Cape Tormentine Railway Station and Ice Boat House.....	W. A. Wells.....	3	1	Season 1888.....	191 00
do do.....	T. Allen.....			Special trips.....	4 00
do do.....	J. B. Allen.....			do.....	4 00
Caraquet and Lower Caraquet.....	A. Lantaigne.....	4	3	12 months.....	34 00
Caraquet and St. Simon.....	J. R. LeBoutillier.....	9	1	12 do.....	30 00
Caraquet and Shippigan.....	J. Duke.....	20	6 & 3	3 do (to June 30, '88)	67 50
Caraquet and Tracadie.....	P. Thériault.....	22	6	12 do.....	344 00
Carleton and St. John.....	D. O'Connell.....	1	36	12 do.....	138 00
Carleton and Street Letter Boxes.....	W. Lane.....		12	12 do.....	78 00
Carlisle and Lower Windsor.....	A. Albright.....	2	3	12 do.....	48 68
Central Blissville and Fredericton Junction.....	J. Shehan.....	4	2	12 do.....	53 32
Central Hampstead and Hibernia.....	D. Gardner.....	3	2	12 do.....	40 00
Central Waterville and Temperance Vale.....	G. T. Pinder.....	5	1	12 do.....	30 00
Centreville, Florenceville, Tracey's Mills and Greenfield.....	W. Jewett.....	2, 4, 6 & 12	2, 3 & 6	3 do (to June 30, '88)	76 00
Centreville and Florenceville Railway Station.....	I. N. Boyer.....	5	6	9 do (from July 1, '88)	55 50
Centreville, Tracey's Mills and Greenfield.....	G. Gregg.....	2, 12 & 6	3 & 2	9 do do do.....	86 25
Chambers' Settlement and Foster's Croft.....	J. McShane.....	5	1	12 do.....	28 00
Chamford and Grand Falls.....	I. Michaud.....	4 & 6	1	12 do.....	50 00
Chance Harbor, Lepreaux and Little Lepreaux.....	U. J. Hope.....	19 & 4	2 & 6	12 do.....	241 60
Chapman and Little Shemogue.....	C. R. Oulton.....	3	2	6 do (from Oct. 1, '88)	17 50
Charleston and Middle Simonds.....	M. Mulhern.....	11	1	12 do.....	50 00
Charlo Station and Upper Charlo.....	J. Goulat.....	2½	6	12 do.....	59 00
Chatham and Douglasfield.....	T. King.....	5	1	12 do.....	20 00
Chatham and Konchbouguac.....	R. McNaughton.....	26	2	12 do.....	258 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Chatham and Newcastle.....	J. Fisher.....			Special trip.....	1 00
Chatham and Railway Station.....	J. Ward.....	1	24	12 months.....	200 00
Chatham and Tracadie.....	Robertson & McCallum.....	52	6	3 do (to June 30, '88).....	320 00
do do.....	Ferguson & McCallum.....	52	6	9 do from do.....	960 00
Chelmsford and Doyle's Brook.....	J. Gratten.....	7	2 & 1	3 do (to June 30, '88).....	12 50
Chelmsford and South Nelson.....	J. Casey.....	10	2 & 6	3 do do.....	24 75
Chipman and Harley Road.....	J. D. Brown.....	5	1	12 do.....	35 00
Chipman and Weldford.....	L. J. Wathen.....	40	1	3 do (to June 30, '88).....	58 00
do do.....	D. Robertson.....	40	1	9 do from do.....	176 25
Church Hill and Riverview.....	A. Bayley.....	2	2	12 do.....	26 00
Clarendon and Gaspereaux Station.....	W. H. Jones.....	6	2	12 do.....	59 00
Clarendon Station and Ry. Station.....	G. S. Lacy.....	$\frac{1}{2}$	6	12 do.....	40 00
Clifton and Grey's Mills.....	J. Rogers.....	10	6	12 do.....	244 00
Clifton and Land's End.....	O. M. Flewelling.....	22	2	12 do.....	272 80
Clinch's Mills and Gooseberry Cove.....	J. Ferguson.....	4	2	12 do.....	65 00
Clinch's Mills and Little Musquash.....	G. Wenn.....	5	1	12 do.....	30 00
Clinch's Mills and Railway Crossing.....	C. F. Clinch.....	$\frac{1}{2}$	12	12 do.....	17 75
Clover Hill and Sussex Vale.....	F. C. Buchanan.....	15	2	3 do (to June 30, '88).....	39 00
do do.....	J. McLaughlin.....	15	2	9 do from do.....	96 95
Coal Branch Station and Ry. Station.....	J. T. Swift.....	100 yd	12	12 do.....	30 00
Coal Creek and Coal Mines.....	J. Brown.....	4	2	12 do.....	44 00
Coal Creek and Upper Coal Creek.....	M. E. Weaver.....	4	1	12 do.....	25 00
Cocagne and Cocagne Cape.....	J. S. Lucas.....	4	1	12 do.....	17 88
Cocagne and Notre Dame.....	H. Dyart.....	6	2	12 do.....	70 00
Coldbrook and Railway Station.....	P. O'Neil.....	$\frac{1}{2}$	12	3 do (from Jan. 1, '89).....	7 50
Cole's Island and Narrows.....	D. H. Marr.....	12	3	12 do.....	155 00
Cole's Island and New Canaan.....	J. Thorne.....	23	1	3 do (to June 30, '88).....	25 00
do do.....	A. Corey.....	23	1	9 do from do.....	73 50
College Bridge and Railway Station.....	D. F. Richard.....	$\frac{1}{2}$	12	12 do.....	56 25
Collina and Springfield.....	J. Kellier.....	14 & 10	1	12 do.....	42 00
Cormier's Cove and St. Joseph.....	D. A. Cormier.....	2	2	12 do.....	30 00
Corn Hill and Petitcodiac.....	W. W. Price.....	11 & 7	1	12 do.....	52 00
Cox's Point and Cumberland Bay.....	T. H. Branscombe.....	5	1	12 do.....	20 80
Cross Creek and Stanley.....	T. Sansom.....	2	1	9 do (to Dec. 31, '88).....	22 50
Curryville and Railway Station.....	J. A. Beaumont.....	$\frac{1}{2}$	12	12 do.....	30 00
Dalhousie and Point la Nim.....	P. Stewart.....	3	3	12 do.....	45 00
Dalhousie and Railway Station.....	H. A. Johnson.....	$\frac{1}{2}$	24	12 do.....	248 80
Dalhousie Junction and Ry. Station.....	J. A. McNair.....	$\frac{1}{2}$	12	9 do (to Dec. 31, '88).....	18 75
do do.....	W. Jamieson.....	$\frac{1}{2}$	12	3 do from do.....	13 00
Dalhousie and Wharf.....	H. A. Johnson.....	$\frac{1}{2}$	4	Season 1888.....	32 70
Dawson Settlement and Hillsboro'.....	P. Broney.....	8	2	12 months.....	83 00
Debeck and Railway Station.....	A. Harron.....	$\frac{1}{2}$	12	12 do.....	30 00
Doaktown and Shinnickburn.....	J. McDuff.....	18	1	12 do.....	100 00
Donegal, Waterford and Sussex Vale.....	F. C. Buchanan.....	10 & 8	1 & 2	12 do.....	189 56
Dorchester and Fairview.....	A. Crossman.....	$3\frac{1}{2}$	1	12 do.....	26 00
Dorchester and Middleton.....	R. A. Colpitts.....	2	6	12 do.....	65 00
Dorchester and Railway Station.....	S. W. Tingley.....	$\frac{1}{2}$	24	12 do and extra trips.....	439 62
Dorchester and Rockport.....	J. Reid.....	12	3s, 2w	12 do.....	159 00
Dorchester and Woodhurst.....	B. Card.....	5	1	12 do.....	20 00
Dorchester Crossing and Ry. Station.....	P. L. Belliveau.....	$\frac{1}{2}$	2	12 do.....	8 00
Dorn Ridge and Mouth of Keswick.....	W. H. Pugh.....	14	2	12 do.....	87 00
Douglstown and Newcastle.....	J. Fisher.....	5	12	12 do.....	250 00
Dover and Moncton.....	W. A. McFarlane.....	10	2	12 do.....	124 00
Downeyville and Springfield.....	W. Kellier.....	11	2	12 do.....	80 00
Downeyville and Tooleton.....	V. Vanwart.....	11 & 3	4	12 do.....	71 00
Doyle's Brook and South Nelson.....	W. Gorman.....	15	2 & 1	7 do (to Jan. 31, '89).....	89 50
Doyle Settlement and River Louise.....	T. Hayes, jr.....	3	1	12 do.....	12 00
Dumbarton Station and Ry. Station.....	T. Irvin.....	30 yds	12	3 do (to June 30, '88).....	10 00
do do.....	W. Saunders.....	$\frac{1}{2}$	6	6 do (from Oct. 1, '88).....	10 00
Dumbarton Station and Rolling Dam.....	do.....	20 & 5	2	9 do (to Dec. 31, '88).....	77 22
Dundee and Shannon Vale.....	W. Wright.....	5	1	12 do.....	25 00



DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Dungiven and Memramcook.....	E. Toole.....	4	1	12 months.....	25 00
Dupey's Corner and St. André de Shédiac.....	R. Hébert.....	3½	1	12 do.....	18 00
Edgett's Landing and Hillsborough.....	T. Beck.....	2	6	6 do (to Sept. 30, '88).....	45 00
Edmundston and Grand Falls.....	M. Hartt.....	37	6	12 do.....	1,395 00
Edmundston and Mouth of St. Francis.....	I. Levéque.....	36	3	2 do (to May 31, '88).....	83 33
do do.....	do.....	37	3	10 do from do.....	428 23
Edmundston and Upper Madawaska.....	D. Sirois.....	3	6	12 do.....	24 00
Eel River Crossing and Ry. Station.....	W. McNair.....	1½	12	12 do.....	40 00
Elgin and Prosser Brook.....	W. P. Robinson.....	13	2	12 do.....	192 00
Elgin and Railway Station.....	G. M. Killam.....	1½	6	12 do.....	39 88
Elmsville and Railway Station.....	J. H. Dyer.....	1½	6	12 do.....	40 00
Emigrant Road and Port Elgin.....	E. D. Sillicker.....	12 & 21	3	7 do 17 dys (from Aug. 15, '88).....	91 92
Ennishore and Grand Falls.....	C. O'Regan.....	3½	1	12 do.....	30 00
Enniskillen Station and Ry. Station.....	B. McAloon.....	1	6	12 do.....	25 00
Fairhaven and Lord's Cove.....	T. McLaughlin.....	10	3s., 2w	12 do.....	195 00
Fairhaven and Steamer.....	do.....	1	3s., 2w	12 do.....	100 00
Fairville and Railway Station.....	C. J. Tilton.....	1	18	12 do.....	75 00
Fenwick and McKnight.....	G. E. McKnight.....	1½	2	12 do.....	15 00
Fenwick and Sheba.....	T. Simpson.....	4½	2	12 do.....	33 00
Ferguson's Point and Intersection of Caraqueet and Chatham Route.....	W. Ferguson.....	1	6	12 do.....	31 20
Flatlands and Railway Station.....	J. Steeves.....	1	6	12 do.....	50 00
Florenceville and Railway Station.....	W. McMullin.....	1	12	12 do.....	185 00
Florenceville East and Riverbank.....	W. W. Boyer.....	4	3	12 do.....	56 00
Flume Ridge and Magaguadavic.....	M. Noonan.....	6	1	12 do.....	30 00
Forks and Ida.....	E. Kierstead.....	4½	1	12 do.....	25 00
Four Falls and Ortonville.....	W. Downing.....	11	1	12 do.....	70 00
Fredericton and Hanwell.....	P. Lacy.....	10	1	12 do.....	59 48
Fredericton and Lower St. Mary's.....	B. Dunphy.....	6	2	12 do.....	90 00
Fredericton and Marysville.....	T. B. Dunphy.....	4	12	12 do.....	320 00
Fredericton and Nasonworth.....	S. K. Nason.....	9½	1	12 do.....	52 00
Fredericton and Newcastle.....	R. Swim.....	105	3	6 do (to Sept. 30, '88).....	736 25
do do.....	J. Rae.....	105	3	4 do (to Jan. 31, '89).....	982 50
Fredericton and Railway Station.....	P. D. McKenzie.....	1	18	12 do (and extra trips).....	178 48
Fredericton and St. Mary's Ferry (No. 1).....	do.....	1	6	12 do.....	30 00
Fredericton and St. Mary's Ferry (No. 2).....	M. W. Ryan.....	1	6	12 do.....	30 00
Fredericton and Stanley.....	T. B. Dunphy.....	33	1	12 do.....	165 00
Fredericton and Street Letter Boxes.....	A. S. Phair.....	1	12	9 do (from July 1, '88).....	67 50
Fredericton and Wharf.....	P. D. McKenzie.....	1	Special	trips.....	2 00
Fredericton and Wisely.....	G. I. Gunter.....	4	2	10 mo's. (from June 1, '88).....	41 67
Fredericton and Woodstock, East.....	J. Phillips.....	70	2	12 do.....	550 00
Fredericton and Woodstock, West.....	R. H. Rainsford.....	63	3	12 do.....	800 00
Fredericton Junct'n and Ry. Station.....	J. Shehan.....	25 yds	24	12 do.....	40 00
French Village and St. John.....	D. O'Connell.....	15 & 17	1	12 do.....	136 00
Gagetown and Mouth of Nerepis.....	S. Cameron.....	45½ s., 40½ w.	3	12 do.....	695 00
Gagetown and Narrows.....	F. E. Wilson.....	19	3	12 do.....	270 00
Gagetown and Upper Gagetown.....	G. W. Allingham.....	8	3	12 do.....	100 00
Gagetown and Welsford.....	H. Johnston.....	28	3	12 do.....	470 00
Gagetown and White's Cove.....	W. Hamilton.....	13	3	12 do.....	250 00
Gailey and Thomas Galland's.....	J. White.....	2	2	12 do.....	30 00
Gaspereau Station and Ry. Station.....	P. W. Mooney.....	1	6	12 do.....	40 00
Gaythorne and Tabusintac.....	E. McCallum.....	4	1	12 do.....	30 00
Gillespie and Grand Falls Portage.....	J. McCallan.....	2	1	12 do.....	25 00
Gladstone and Kintore.....	T. Watt.....	8½	3	12 do.....	120 00
Glassville and Ruther Glen.....	E. D. Martin.....	5½	1	12 do.....	15 60
Golden Ridge and Knowlesville.....	G. Campbell.....	6	1	12 do.....	34 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					s cts.
Goose Creek and Shepody Road	J. Prescott	13	1	12 months	60 00
Gouldville and Memramcook	J. F. Richard	24	2	12 do	32 08
Grafton and Woodstock	A. D. Shea	13	6	12 do	48 00
Grainfield and North Renous	M. Hayes	4	1	12 do	32 50
Grande Anse and Mizonettc.	S. Thériault	8	2 s. 1 w	12 do	75 00
Grand Bay and Railway Station	D. Hamm	4	6	12 do	20 00
Grand Falls and Railway Station	P. McMillan	13	12	10 do (to Jan. 31, 1889)	62 50
do do	J. J. Kelly	13	12	2 do from do	12 50
Grand Falls and Undine	F. Petit	13 & 11	2	12 do	121 75
Grand Falls and Woodstock	J. A. Perley	74	6	12 do	2,700 00
Grand Harbor and White Head	E. A. Daggett	6	2 s. 1 w	12 do	94 00
Grand Manan and Seal Cove	G. E. Tatton	12	3 & 2	12 do	119 00
Great Shemogue and Little Cape	J. S. Leger	4	1	12 do	25 00
Great Shemogue and Shediac	T. H. Hébert	24	6	6 do (from Oct. 1, '88)	200 00
Great Shemogue and Upper Sackville	D. Wheaton	20 & 27	1	3 do (to June 30, 1888)	23 25
Green Point and Petit Rocher	J. Morrison	34	1	12 do	35 00
Halcomb and Lyttleton	E. Somers	5	1	12 do	39 00
Hammond Vale and Shepody Road	W. Fowler	12	1	12 do	104 00
Hampstead and Wickham	J. S. Van Wart	2	2	12 do	40 00
Hampton and Ossekeag	F. Williams	1	6	12 do	40 00
Hampton and Urquhart's	J. McLaughlin	13	2	12 do	130 00
Hardingville and Quaco Road	F. Johnston	4	1	12 do	29 00
Harewood and Salisbury	J. C. Perry	13	1	12 do	48 00
Hartland and Knowlesville	W. Craig	22½	3	12 do	274 00
Hartland and Railway Station	A. Nevers	4	12	12 do	45 00
Harvey and Midway	R. Smith	34	1	12 do	37 00
Harvey and Railway Station	L. F. West	13	6	3 do (from Jan. 1, '89)	32 50
Harvey and Waterside	R. Smith	11	3	12 do	120 00
Harvey Bank and Hillsboro	C. Peck			Special service.	42 50
Harvey Bank, Harvey and Ry. Station	R. Smith	1	6	9 months (to Dec. 31, '88)	52 50
Harvey Bank and Railway Station	W. B. Wells	4	6	9 do	22 50
Harvey Station and Magaguadavic	T. Craig	18	2	12 do	149 00
Harvey Station and Ry. Station	D. Glendinning	50 yds	12	12 do	30 00
Harvey Station and Yoho	R. McLaughlin	8	1	12 do	28 76
Hartfield Point and West Scotch Settlement	F. D. Ganong	4	1	3 do (to June 30, '88)	5 50
do do	W. A. S. Perkins	4	1	9 do from do	16 50
Head of Millstream and Perry Settlement	B. B. Hayes	5	1	12 do	30 00
Head of Millstream and Sussex Vale	do	19	2	12 do	175 00
Head of Tide and Railway Station	J. Gillis	17	6	12 do	50 00
Head of Tide and Robinsonville	D. Duncan	19½	1	12 do	85 00
Heron Island and New Mills	J. McNair	3	1	3 do (to June 30 '88)	6 75
do do	W. Maxwell	3	1	9 do from do	24 00
Hillsborough and Lower Cape	J. Bray	9	6	6 do (from Oct. 1, '88)	100 00
Hillsborough and Moncton	R. L. Blake	16	6	Special service	63 00
Hillsborough and Railway Station	J. Bray	17	12	3 months (to June 30 '88)	19 50
do do	R. E. Steeves	4	12	9 do (from do)	58 50
Hillsborough and Rose Vale	H. J. Stevens	13	3	12 do	140 00
Hillsdale and Mackville	J. McIntyre	3	1	12 do	23 68
Hillsdale and Sussex Vale	R. Brewing	17	3	12 do	240 00
Hopewell Cape and Railway Station	J. Bray	3½	12	6 do (to Sept. 30, '88)	100 00
do do	W. E. Calhoun	3½	6	6 do from do	45 00
Hopewell Hill, Hopewell and Railway Station	C. L. Peck	14	6 & 12	12 do	80 00
Hopewell Hill and Memel	W. Hunt	7 & 5	1	12 do	50 00
Hopper and Salisbury	J. McGee	18	1	12 months	82 00
Hoyt Station and Juvenile Settlement	J. E. Patterson	12 & 9	2	12 do	75 88
Hoyt Station and Railway Station	A. W. Mesereau	1	12	12 do	50 00
Indian Mountain and Moncton	A. M. Bonnell	14	1	12 do	78 00
Indiantown and St. John	W. McLaughlin	2	12	3 do (to June 30, '88 & extra service).	59 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					8 cts.
Indiantown and St. John.....	D. O'Connell.....	2	12	6 months from July 1, '88	117 00
Inkerman and Pockmouche.....	W. Gibbs.....	3	3	6 do (to Sept. 30, '88).	13 50
Inkerman and Railway Station.....	do.....	3	6	6 do from Oct. 1, '88).	22 50
Irishtown and Shediac.....	C. Sullivan.....	20	1	12 do.....	126 00
Jenkins and Thornetown.....	M. B. Perry.....	2	3	12 do.....	38 00
Jolicure, Westmoreland Point and Railway Station.....	C. Wry.....	7 & 1	6 & 12	7 do 17 dys (from Aug. 15, '88).....	140 62
Jordan Mountain and Newtown.....	S. H. Snider.....	4	1	12 do.....	38 00
Keats and Petitcodiac.....	R. F. Keith.....	7	3	12 do.....	117 00
Kerry and New Ireland Road.....	F. Doherty.....	5	1	3 do (to June 30, '88).	6 25
do do.....	J. Garland.....	5	1	9 do from do.....	37 11
Keswick Ridge and Millville.....	J. Harrigan.....	27 & 30	2	12 do.....	295 16
Kilburn and Kintore.....	D. Watt.....	6	3	12 do.....	80 00
Kilburn and Railway Station.....	B. Kilburn.....	1	12	12 do.....	25 00
Kingsclear and New Market.....	J. W. Howard.....	5	1	12 do.....	36 00
Kingston (Kent) and Railway Station.....	E. Harnett.....	1	12	12 do.....	100 00
Kingston (Kent) and Richibucto Village.....	P. McCaie.....	7	2	12 do.....	60 00
Kingston (Kings) and Perry's Point.....	J. Hill.....	2	2	12 do.....	35 00
Kingston (Kings) and Rothsay.....	S. Cosman.....	10	6	12 do.....	449 00
Knoxford and Upper Knoxford.....	J. McLaggan.....	4	1	9 do (to Dec. 31, '88).	19 50
do do.....	R. Longstaff.....	4	1	3 do from do.....	6 50
Kouchibouguac and Kouchibouguac Beach.....	J. Potter, jr.....	9	2	12 do.....	60 00
Kouchibouguac and Point Sapin.....	do.....	20	1	12 do.....	65 00
Kouchibouguac and Richibucto.....	P. Wood.....	12	6	3 do (to June 30, '88).	66 25
do do.....	J. McLane.....	12	6	9 do from do.....	217 50
Lake George and Prince William Station.....	W. Nichol.....	22	2	9 do (to Dec. 31, '88).	142 50
do do.....	P. Carr.....	22	2	3 do from do.....	39 25
Lakeview and Narrows.....	R. Black.....	3	3	12 do.....	50 00
Lakeville Corner and Newcastle Creek.....	T. L. Simmons.....	28	2	12 do.....	172 00
Landry and Pockmouche.....	M. Landry.....	5	1	12 do.....	23 00
Lawrence Station and Railway Station.....	J. Taylor.....	200 yd	12	12 do.....	52 00
Ledge and St. Stephen.....	J. Green.....	4	3s. 2w.	12 do.....	75 00
Légère and Portage River.....	L. Manzerall.....	2	3	12 do.....	30 00
Lepreaux and Pocologan.....	S. T. Anderson.....	10	2	9 do (from July 1, '88).	56 25
Lepreaux and Railway Station.....	H. P. Reynolds.....	1	12	12 do.....	25 00
Lewis Mountain and Petitcodiac.....	W. W. Price.....	12 & 13	1	12 do.....	72 80
Linne Hill and Junction of Spring Hill Road.....	T. Scribner.....	2	1	12 do.....	15 00
Lincoln and Oromocto.....	A. E. Bulley.....	4	3	12 do.....	65 00
Little Lake and Tracey Station.....	J. Steen.....	11	1	12 do.....	58 00
Little Salmon River Mills and Shepody Road.....	G. J. Vaughan.....	8	1	12 do.....	80 00
Loch Lomond and St. Martin's.....	A. E. Mallery.....	20	1	12 do.....	100 00
Long Point and Springfield.....	W. Kellier.....	7 & 10	1	12 do.....	35 44
Long Settlement and Woodstock.....	J. R. Tupper.....	25	2	12 do.....	200 28
Lower Brighton and Woodstock.....	J. Downey.....	8	2	12 do.....	100 00
Lower Nappan and Point au Car.....	D. Loggie.....	5	2	3 do (to June 30, '88).	13 50
do do.....	A. McKnight.....	5	2	9 do from do.....	35 61
Lower Southampton and Norton Dale.....	J. C. Munro.....	10	2	12 do.....	88 48
Lower Turtle Creek and Turtle Creek.....	G. A. Fillmore.....	3	1	12 do.....	15 00
Lower Woodstock and Speerville.....	A. W. Hay.....	6	1	12 do.....	58 20
Lyttleton and Red Bank.....	E. H. Tozer.....	5	3	9 do (to Dec. 31, '88).	60 00
do do.....	E. Somers.....	5	3	3 do from do.....	22 50
McGinley and Memramcook.....	S. C. Charters.....	1	3	12 do.....	40 00
Maple Green and Railway Station.....	J. Fraser.....	1	3	12 do.....	40 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Maplehurst, Upper Kent and Railway Station .....	A. A. Hawthorne	3 & $\frac{1}{8}$	2 & 12	12 months	75 00
Maple Ridge and Millville .....	G. Russell	3	1	12 do	20 00
Maplewood and Millville .....	H. Palmer	5	1	12 do	24 00
Martin's Head and Salmon River .....	W. J. Davidson	15	1	12 do	100 00
Marysville and Peniac .....	T. B. Dunphy	4	2	12 do	60 00
Maugerville and Upper Maugerville .....	P. McClusky	5	3	12 do	68 00
Meadows and Railway Station .....	G. F. Beach	20 yds	12	12 do	10 00
Memramcook and Railway Station .....	S. C. Charters	2	24	12 do	100 00
Milford and Railway Station .....	J. Irvine	1	12	12 do	75 00
Milledgeville and St. John .....	D. O'Connell	4	2	12 do	65 00
Millstream and Mountain Dale .....	W. E. Fenwick	7 & 6	1	12 do	46 28
Millstream and Mount Hebron .....	G. D. Fenwick	5	1	12 do	41 08
Milltown and St. Stephen .....	J. & E. Keys	2	12	12 do	148 48
Milltown and Upper Mills .....	J. M. Macdonald	3	1	12 do	50 00
Miscou Harbor and Wilson's Point .....	J. A. Wilson	6	2 s 1 w	12 do	60 36
Mispec and St. John .....	D. O'Connell	9	1	12 do	59 76
Moncton and O'Neill .....	J. McQuade	15	1	12 do	59 00
Moncton and Railway Station .....	G. McSweeney	1	36	12 do	360 00
Moncton and Stony Creek .....	J. B. Scott	8	1	12 do	52 00
Moncton and Street Letter Boxes .....	J. Gallagher	1	12	12 do	150 00
Moncton and Upper Coverdale .....	E. L. Goodall	14	2	12 do	105 00
Moncton Road and Shediac .....	W. G. Bateman	6	1	12 do	40 00
Monument Settlement and Richmond Corner .....	J. Kennedy	27 & 20	2	12 do	156 00
Moore's Mills and Railway Station .....	A. Connick	100 yds	12	12 do	52 00
Mount View and Upper Sackville .....	J. Wheaton	3	1	12 do	20 00
Mountville and Railway Station .....	J. Wilbur	100 yds	12	12 do	20 00
Mouth of Nerepis and Railway Station .....	J. M. Nase	$\frac{1}{2}$	12	12 do	50 00
Musquash and Railway Crossing .....	L. D. Carman	$\frac{1}{2}$	12	12 do	26 00
Narrows and Norton Station .....	W. Linden	21	3	12 do	425 00
Narrows and Upper Gaspereaux .....	J. B. Wiggins	50	3	12 do	595 00
Narrows and Wickam .....	M. Dacey	24	3	3 do 14 days (to July 14, 1888)	111 76
do do .....	G. W. Day	24	3	8 do 17 days from do	249 19
Nashwaak and Stanley .....	J. A. Young	10	1	12 do	52 00
Nauwigewauk and Railway Station .....	W. W. Dodge	$\frac{1}{2}$	12	12 do	25 00
Nerepis Station and Ry. Station .....	D. McKenzie	$\frac{1}{2}$	12	12 do	20 00
Nerepis Station and Round Hill .....	D. W. McKenzie	12	1	12 do	70 00
Newcastle and Railway Station .....	J. Fisher	1	24	12 do (and extra trips)	207 72
Newcastle and Red Bank .....	J. C. Millar	15	3	12 do	248 50
Newcastle and Renous Bridge .....	J. C. Brown	17	3	2 do (from Feb. 1, '89)	45 83
Newcastle and Sevoyle .....	A. Cain	25	1	6 do (to Sept. 30, '88)	92 00
do do .....	J. C. Brown	25	1	6 do (from do)	72 50
Newcastle and South Nelson .....	J. Doolan	2	6	12 do	199 00
Newcastle Letter Box and Railway Station .....	J. Fisher	1	6	12 do	31 28
New Mills and Railway Station .....	A. McNair	$\frac{1}{2}$	12	12 do	49 88
Newtown and Sussex Vale .....	J. Rogers	12 & 10	3	12 do	114 48
Nictau and Riley Brook .....	E. P. Ross	6	1	12 do	30 00
Nixon and Turtle Creek .....	G. Wilson	4	1	12 do	20 00
North Forks of Salmon Creek and Salmon Creek .....	S. P. Fowler	4	1	12 do	37 40
North River Platform and Railway Station .....	T. Jones	$\frac{1}{2}$	12	12 do	25 00
Notre Dame and Poirier .....	F. Cyr	6	1	12 do	30 00
Oak Bay and Railway Station .....	R. W. Wilson	$\frac{1}{2}$	12	12 do	65 00
Oakham and Thornetown .....	M. Perry	3	2	3 do (to June 30, '88)	7 50
do do .....	E. Perry	4	2	9 do from do	31 86
Oak Hill and St. Stephen .....	J. & E. Keys	22	1	12 do	159 00
Oak Point and Round Hill .....	T. Harrison	3	6	Season 1888	30 00
Oakville and Richmond Corner .....	L. S. Purinton	19	1	12 months	80 00
Oromocto and Waasis Station .....	J. S. Hubble	6	6	12 do	190 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					8 cts.
Oromocto and Woodside.....	W. Rutledge.....	12	2	6 month (to Sept. 30, '88)	43 25
do do.....	do.....	18	2	6 do from do	54 50
Oromocto, Sheffield, Upper Gage- town and Swan Creek.....	J. W. Currier.....	10, 21 & 12	6 & 3	12 do	344 28
Ossekeag and Upperton.....	R. W. Barnes.....	19½	2	12 do	180 00
Painsec Settlement and Railway Station.....	E. Babin.....	1	2	12 do	27 00
Paquetville and Pockshaw.....	R. Cushing.....	13½	3	3 do (to June 30, '88)	37 50
Passekeag and Railway Station.....	G. R. Campbell.....	150 y's	12	12 do	50 00
Passekeag and Sherlock.....	J. McVey.....	4½	1	12 do	32 50
Pearson's and Starkeys.....	J. H. McLeod.....	9 & 12	2	12 do	150 00
Pennfield Ridge and Ry. Station.....	S. McKay.....	2	6	12 do	60 00
Penobscus and Roxburgh.....	W. Haslam.....	21	2	9 do (to Dec. 31, '88)	144 30
do do.....	J. J. Haslam.....	21	2	3 do from do	44 37
Perth Centre and Ry. Station.....	G. W. Larlee.....	1	12	12 do	50 00
Perth Centre and Riley Brook.....	W. Inman.....	64 & 8	2 & 1	12 do	601 20
Perth Centre and Tilley.....	A. H. Larlee.....	15	2	12 do (and extra serv'e)	127 18
Petersville and Welsford.....	J. Burton.....	10	2	3 do (to June 30, '88)	25 00
do do.....	P. Lingley.....	10	2	9 do from do	72 00
Petersville Church and South Clones	J. Chittick, sr.....	4	1	12 do	30 00
Petit Rocher and Railway Station.....	J. Morrison.....	1½	12	12 do	75 00
Pioneer and Woodstock.....	J. R. Tupper.....	25	3	12 do	297 00
Pisarinco and Spruce Lake.....	S. Maguire.....	6	2	3 do (to June 30, '88)	9 87
do do.....	E. McCarthy.....	6	2	9 do from do	30 00
Pleasant Ridge and Rolling Dam Station.....	N. McDermott.....	10	2	3 do (from Jan. 1, '89)	18 75
Pocologan and New River Railway Station.....	J. Knight.....	6	2	3 do (to June 30, '88)	12 50
Pointe du Chêne and Ry. Station.....	E. McDonald.....	½	12	12 do	25 00
Pollett River and Railway Station.....	T. W. Colpitts.....	100 y's	3	12 do	19 48
Port Elgin and Railway Station.....	G. Siddall.....	4	12	7 do and 17 days (from Aug. 15, 1888)	25 00
Port Elgin and Shediac.....	C. L. Gautreau.....	35	3	6 months (to Sept. 30, '88)	200 00
Port Elgin and Spence.....	J. H. Trenholm.....	24	2	7 do and 17 days (from Aug. 15, 1888)	92 72
Port Elgin, Westmoreland Point and Railway Station.....	T. J. Bulmer.....	16 & 1	6 & 12	4 months and 14 days (from Aug. 14, 1888)	150 00
Prince of Wales and Ry. Crossing.....	J. Cairns.....	½	6	12 months	31 00
Prince William Station and Rail- way Station.....	W. G. Hatch.....	300 y's	12	12 do	50 00
Prince William Station and York Mills.....	W. Murray.....	3	2	12 do	93 00
Renous Bridge and South Renous.....	J. Singleton.....	5	2	12 do	42 00
Reynolds and South Nelson.....	B. Reynolds.....	7	2	12 do	50 00
Richibucto and Railway Station.....	J. C. Vantour.....	4	6	12 do	75 00
Richibucto and Weldford.....	L. J. Wathen.....	27	6	12 do	737 00
River Charlo and Railway Station.....	W. R. Jamieson.....	1	12	12 do	65 00
River Louison and Sunnyside.....	J. Millar.....	7	1	12 do	46 00
Riverside and Railway Station.....	M. Daley.....	½	12	12 do	24 00
Rockland Station and Ry. Station.....	J. Sutherland.....	300 y's	12	12 do	30 00
Rockport and Sackville.....	A. Tower.....	16	1	12 do	65 00
Rogerville and Railway Station.....	D. Fontaine.....	100 y's	12	12 do	25 00
Rogerville and Rogerville, East.....	J. Hache.....	4½	1	12 do	42 65
Rogerville and Viennau.....	F. McCaill.....	5	1	12 do	35 00
Rolling Dam Station and Railway Station.....	W. Goodill.....	½	12	9 do (from July 1, '88)	30 00
Rosedale and Upper Woodstock.....	W. E. Hoyt.....	8 & 6	2	12 do	80 00
Rusagornis and Waasis Station.....	A. Grass.....	3	3	12 do	40 00
St. Andrews and Railway Station.....	J. Cummings.....	½	6	12 do (and arrears)....	80 75
St. Andrews and Wharf.....	R. Stow.....	½	7	12 do	32 00

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
St. Croix and Vanceboro' Railway Station.....	A. W. Sears.....	1	6	12 months.....	35 00
St. George and Railway Station.....	M. Parks.....	1	12	12 do.....	54 50
St. Isidore and Tracadie.....	P. LeBreton.....	11	2	12 do.....	70 00
St. John and Grand Southern Railway Station.....	J. Moulson.....	1	6	12 do.....	125 00
St. John and Intercolonial Railway Station.....	D. O'Connell.....	1	30	12 do (and extra trips).....	432 92
St. John and New Brunswick Railway Station.....	do.....	1	36	12 do do.....	571 47
St. John, Wharf, and Ry. Station.....	Sundry persons.....			Special trips.....	11 40
St. John and St. Martin's.....	A. E. Mallery.....	30	6	12 months.....	1,076 40
St. John and Sand Point Road.....	D. Peacock.....	3	3	12 do.....	40 00
St. John and Street Letter Boxes.....	D. O'Connell.....		18	12 do.....	489 00
St. Joseph and Railway Station.....	J. E. Gaudet.....	1	12	12 do.....	84 00
St. Leonard Station and Van Buren, U.S.....	W. C. Hammond.....	1	6	12 do.....	50 00
St. Martin's and Salmon River.....	A. W. Fownes.....	9	3 & 2	12 do.....	165 21
St. Norbert and West Branch.....	D. Gallant.....	5	1	12 do.....	19 48
St. Stephen and Calais, U.S.....	J. & E. Keys.....	1	12	12 do.....	110 00
St. Stephen and Grand Southern Railway Station.....	J. Green.....	1	6	12 do.....	69 00
St. Stephen and New Brunswick Railway Station.....	Hardy & Bridges.....	1	12	12 do (and extra trips).....	212 02
St. Stephen and Wharf.....	do.....	1	6 & 4	12 do do.....	79 20
Sackville and Intercolonial Ry. Stn.....	J. A. Bowes.....	1	24	6 do (to Sept. 30, '88, and arrears.....	148 36
do do.....	J. J. Wheaton.....	1	24	6 do from do.....	100 00
Sackville and N.B. & P.E.I. Ry. Stn.....	N. B. & P. E. I. Ry. Co.....	1	12	4 do 17 dys (to Dec. 31, '88).....	9 37
Sackville and Second Westcock.....	C. Doo.....	8	1	12 do.....	49 00
Sackville and Upper Sackville.....	J. J. Wheaton.....	5	6	12 do.....	118 72
Sackville and Wood Point.....	E. Snowden.....	6	1	12 do.....	24 48
Salisbury and Railway Station.....	G. W. Gaynor.....	600 yd	24	12 do.....	150 00
Salt Springs and Titusville.....	H. O'Brien.....	6	2	12 do.....	56 00
Sargent and Junction of Chatham and Point Escuminac Route.....	H. Sargent.....	1	2	12 do.....	20 00
Shediac and Railway Station.....	C. W. Smith.....	1	42	12 do.....	218 40
Shediac Road and Railway Station.....	G. Rodgersson.....	1	3	12 do.....	33 00
Shippigan and Shippigan Island.....	J. Goodin.....	12	2 s 1 w	12 do.....	60 00
South Bay and Railway Station.....	W. Roxborough.....	100 yd	12	12 do.....	30 00
South Nelson and South Nelson Road.....	W. Gorman.....	3	2	3 do (from Jan. 1, '89).....	9 17
Spruce Lake and Railway Crossing.....	J. Robinson.....	1	6	12 do.....	30 00
Spruce Lake Station and Ry. Station.....	E. McCarthy.....	1 1/2	6	12 do.....	20 00
Stanley and Williamsburg.....	T. Sansom.....	1	1	3 do (from Jan. 1, '89).....	15 00
Starkey's and Young's Cove.....	S. J. Thorne.....	11	1	12 do.....	36 00
Stymast Settlement and Upper Newguac.....	P. Gratton.....	5	2	12 do.....	57 48
Summerfield and Upper Wicklow.....	A. Gee.....	3	2	12 do.....	25 00
Sussex Corner and Sussex Vale.....	J. Rogers.....	2	6	12 do.....	43 68
Sussex Vale and Railway Station.....	R. D. Boal.....	250 yd	30	12 do.....	150 00
The Range and Wiggins.....	A. F. Barton.....	2 1/2	1	12 do.....	28 00
Three Mile House and Ry. Station.....	P. O'Neill.....	1	12	9 do (to Dec. 31, '88).....	22 50
Three Tree Creek and Ry. Station.....	J. McQuestion.....	4	6	12 do.....	15 00
Tower Hill and Railway Station.....	J. Irons.....	2	2	12 do.....	38 75
Tracey Station and Railway Station.....	D. S. Duplisea.....	50 yds	12	12 do.....	30 00
Tracey Station and Traceyville.....	do.....	4	1	12 do.....	30 00
Waweig and Railway Station.....	M. J. Greenlaw.....	1 1/2	6	12 do.....	40 00
Weldford and Railway Station.....	L. J. Wathem.....	1	24	12 do.....	164 00
Welsford and Railway Station.....	H. W. Wood.....	1	12	12 do (and extra trips).....	87 36
Whittier's Ridge and Dumbarton Mail Route.....	J. Hill.....	1	2	9 do (to Dec. 31, '88).....	9 75

DETAIL of all payments for Mail Transportation in New Brunswick, &c.—*Con'd.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Woodstock and Houlton, U.S. ....	F. W. Bull. ....	14	6	12 months .....	\$    cts. 245 00
Woodstock and Railway Station ...	J. R. Tupper. ....	1	36	12 do .....	224 64
				Total .....	\$55,058 76

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

*Detail of all payments for Mail Transportation in New Brunswick, made within the Year ended 30th June, 1889.*

CONVEYANCE OF MAILS BY STEAMBOATS AND SAILING VESSELS.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Campo Bello, Indian Island and Eastport, U.S.	W. E. Sulis	2 & 3	3 & 2	9 months (to March 31, 1889)	\$ cts. 187 50
Fredericton and Indian town	R. R. Humphrey, Manager	84	6	Season 1888	1,000 00
Grand Manan and Eastport, U.S.	W. E. Sulis	21	2	1 month (to April 30, 1888)	83 33
do do	do	21	3	2 do (to June 30, 1888)	200 00
Grand Manan, St. John and St. Stephen	E. Gaskill	75 & 50	1	(In addition to subsidy)	1,000 00
St. John, Digby, N.S. and Annapolis, N.S.	Nova Scotia Steamship Co.	45 & 16	3	7 months (to Oct. 31, 1888)	5,833 33
do do	New Brunswick & Nova Scotia S.S. Co.	45 & 16	3	18 trips	1,200 00
do do	Government Steamer "Lansdowne"	45 & 16	3	From December 29, 1888, to March 25, 1889	2,371 80
do do	Bay of Fundy Steamship Co.	45 & 16	3 & 5	3 months (to June 30, 1889, and extra trips)	3,256 58
St. Stephen and Eastport, U.S.	J. Murelie	30	2 & 3	1 month (to April 30, 1888)	25 00
do do	do	30	4 & 2	11 do (to March 31, 1889)	320 83
				Total	\$15,478 37

101

N.B.—For Special Mail Subsidies and Steamship Subventions, see page 9.

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*



## DETAIL of all payments for Mail Transportation in New Brunswick, made within the Year ended 30th June, 1889.

## CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	No of Trips per Week.	Period.	Amount.
Albert Railway.....	48	6	10 months 27 days (to March 31, 1889).....	\$ cts. 2,173 44
Caraguet Railway Co.....	65	6	9 do (to March 31, 1889).....	1,343 85
Chatham Branch Railway.....	9	24	12 do .....	896 00
Elgin, Petitediac and Havelock Railway Co.....	27	6	12 do .....	673 92
(Grand Southern Railway.....	82½	6	12 do .....	2,036 76
Intercolonial Railway (within New Brunswick).....	344	With varying frequency over different sections of the line.	15 do (to June 30, 1889) and arrears. 12 do (to March 31, 1889).....	61,168 75 673 92
Kent Northern Railway.....	27	6	12 do .....	24,428 32
New Brunswick Railway.....	306	With varying frequency over different sections of the line.	12 do .....	423 36
New Brunswick and Prince Edward Island Railway.....	36	6	17 days (to March 31, 1889).....	416 66
Northern and Western Railway Co.....	116	6	2 do (to March 31, 1889).....	500 00
St. John Bridge and Railway Extension Co.....	1½	As required .....	12 do .....	\$94,734 98
Total.....				

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c.,  
in New Brunswick, made within the Year ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		\$ cts.
S. & H. Borbridge.....	Mail bags, labels and repairs for Post Office Department.	446 91
R. S. Montgomery.....	do do do ..	183 20
do .....	Lead rivet seals for Post Office Department. ....	280 00
Pritchard & Andrews.....	Mail bag labels do .....	43 27
Miller Lock Co.....	Mail locks and keys do .....	7 20
E. Chanteloup.....	Mail lock keys do .....	2 50
G. Bailey.....	Repairing mail locks do .....	3 00
Smith & Egge Manufacturing Co.....	Mail locks and keys do .....	7 00
D. Brown.....	Repairing mail bags for Post Office Inspector, St. John..	7 56
San Publishing Co.....	Stencilling mail bags do do ..	52 20
D. Brown.....	Repairing mail bag for Postmaster, St. John.....	6 24
	Total.....	\$1,039 08

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF MANITOBA AND THE N-W. TERRITORIES.

DETAIL of all payments for Mail Transportation in Manitoba and the North-West Territories, made within the Year ended 30th June, 1889.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Adelpha and Killarney .....	H. Mason .....	20	2	12 months .....	240 00
Aikenside and Chater .....	W. Curle .....	12½	1	12 do .....	122 20
Alexander Station and Ry. Station.	J. F. Walker .....	12½	12	do .....	30 00
Almasippi and Campbellville .....	G. Grey .....	8	1	12 do .....	75 00
Archibald and Beaconsfield .....	G. Saunders .....	48½	2	10 do (to Jan. 31, '89).	575 00
Archibald and Musselboro' .....	W. Shields .....	17½	1	12 do .....	145 00
Archibald and Mowbray .....	do .....	26	2	12 do .....	555 00
Archibald and Norquay .....	G. Saunders .....	44	2	2 do (from Feb. 1, '89)	104 33
Archibald and Railway Station .....	W. C. Kennedy .....	12½	12	do .....	150 00
Arden Station and Railway Station .....	M. E. Boughton .....	8	8	12 do .....	50 00
Ardenpatrick and Assessippi .....	R. H. Marshall .....	30	Ftn'ly	12 do .....	110 00
Argyle and Stonewall .....	A. Guthrie .....	9	1	12 do .....	120 00
Arnaud and Dominion City .....	J. M. Martineau .....	9	2	3 do 18 days (from Dec. 14, '88) ..	62 17
Arnaud and Railway Station .....	do .....	2½	3	8 do 8 days (to Dec. 8, '88) .....	51 56
Arrochar and Railway Station .....	R. McDonald .....	3½	3	12 do .....	32 00
Arrow River and Beulah .....	J. Evans .....	22	1	12 do .....	180 00
Assessippi and Russell .....	W. Dunkin .....	15	2	12 do .....	300 00
Ash Creek and Moropano .....	R. Johnston .....	5	1	12 do .....	52 00
Assiniboine and Poplar Point .....	G. M. Jackson .....	4	2	12 do .....	100 00
Aubigny and St. Agathe .....	F. Roy .....	7	2	12 do .....	125 00
Austin and Railway Station .....	E. Broadfoot .....	1½	12	12 do .....	30 00
Aweme and Two Rivers .....	C. Bellhouse .....	5	1	12 do .....	60 00
Baie St. Paul and Fortier .....	J. H. Lavoie .....	7	1	12 do .....	80 00
Baie St. Paul and Railway Station .....	E. L. Fairbanks .....	½	12	do .....	80 00
Balcarres and Indian Head .....	J. Morrison .....	30	1	9 do (to Dec. 31, '88).	258 75
do .....	J. Balfour .....	27	1	3 do from do .....	62 50
Balgonie and Loon Creek .....	B. Woolhouse .....	30	1	12 do .....	260 00
Balgonie and Railway Station .....	A. R. Dickson .....	½	12	do .....	60 00
Balmerino and Binscarth .....	A. Fletcher .....	4	2	12 do .....	80 00
Balmoral and Pleasant Home .....	R. Rutherford .....	18	1	12 do .....	161 00
Balmoral and Stonewall .....	do .....	8	2	12 do .....	131 00
Barnsley, Lintrathen and Railway Station .....	J. P. Parsons .....	19 & ¾	2 & 4	12 do .....	377 00
Batoche and Boucher .....	P. Parenteau .....	23	1	12 do .....	125 00
Batoche and Saskatoon .....	J. Caron .....	55	Ftn'ly	12 do .....	250 00
Battleford and Fort Pitt, &c., also Calgary and Fort Saskatchewan.	Leeson & Scott .....	90, 198 & 218	Ftn'ly & wky	12 do .....	20,061 84
Beauséjour and Brokenhead .....	E. A. Dugard .....	14	1	12 do .....	130 00
Beaver Creek and Railway Station .....	W. J. Thompson .....	5½	1	12 do .....	41 60
Bellevue and Virden .....	A. Mooney .....	35½	1	12 do (and arrears) ..	305 95
Benbecula and Wapella .....	D. Miller .....	8	1	12 do .....	40 00
Beulah and Elkhorn .....	G. H. Rowswell .....	25	2	7 do (to Oct. 31, '88).	273 00
do .....	G. W. Marsh .....	25	2	5 do from do .....	195 00
Binscarth and Lidford .....	W. H. Gwillim .....	8	1	4 do (from Dec. 1, '88).	17 33
Binscarth and Millwood .....	Mitchell & Bucknall .....	9	1	4 do (to July 31, '88).	8 66
Binscarth and Railway Station .....	A. P. W. Golds- mid .....	1½	4	6 do (to Sept. 30, '88).	13 00
do .....	A. G. P. Smellie .....	1½	4	6 do from do .....	13 00
Binscarth and Shellmouth .....	A. P. W. Golds- mid .....	27	2	2 do (to May 31, '88).	69 33
do .....	M. Whaley .....	27	2	3 do (to Aug. 31, '88).	109 55
do .....	J. G. Langford .....	27	2	7 do from do .....	297 26
Binscarth and Spy Hill .....	H. V. Bailey .....	21	1	8 do (from Aug. 1, '88).	133 33
Binscarth Farm and Snake Creek .....	T. S. Rutherford .....	12½	1	3 do (to June 30, '88).	39 06
do .....	C. Hamilton .....	12½	1	9 do from do .....	93 75

DETAIL of all payments for Mail Transportation in Manitoba, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Bird's Hill and Cook's Creek .....	J. S. McLeod .....	17½	2	3 mons. (to June 30, '88)	90 00
Bird's Hill and Railway Station .....	C. Chudleigh .....	17½	6	12 do	124 80
Birtle and Moosomin .....	G. Hume .....	37	2	12 do	570 00
Birtle and Railway Station .....	W. G. L. Porteous .....	20½	6	12 do	97 48
Birtle and Seeburn .....	A. Swainson .....	20	1	12 do	130 00
Birtle and Warleigh .....	W. E. Howey .....	8	1	9 do (to Dec. 31, '88)	55 00
do do .....	J. C. Dudley .....	8	1	3 do from do	15 00
Blackwood and Indian Head .....	J. A. L. Blackwood .....	13	1	3 do (from Jan. 1, '89)	18 50
Blythfield and Starbuck .....	W. H. Mellow .....	9	1	12 do	80 00
Boissevain and Desford .....	A. McKnight .....	24	2	12 do	125 00
Boissevain and Heaslip .....	G. F. Brown .....	18½	2	12 do	300 00
Boissevain and Langvale .....	H. Hammond .....	23	2	12 do	275 00
Boissevain and Railway Station .....	A. McKnight .....	1	6	12 do	50 00
Boissevain and Wapaha .....	W. A. Munro .....	12	1	1 do (to April 30, '88)	10 55
do do .....	J. Sheppard .....	12	1	4 dys. (to May 4, '88)	1 37
Boissevain and Whitewater .....	do .....	8	1	10 months, 27 days (from May 5, '88)	75 43
Boscurevis and Moosomin .....	W. A. Turriff .....	117	1	12 do	890 00
Bradwardine and Logoch .....	T. Levins .....	14	1	12 do	90 00
Brandon and Minnewawa .....	H. M. Sage .....	27	2	3 do (to June 30, '88)	130 00
do do .....	W. D. Matheson .....	27	2	6 do (to Dec. 31, '88)	260 00
do do .....	R. Crompton .....	27	2	3 do from do	130 00
Brandon and Olivedale .....	D. Reed .....	12	2	3 do (from Jan. 1, '89)	32 50
Brandon and Pendenmis .....	W. J. Sargent .....	17	1	9 do (to Dec. 31, '88)	97 50
do do .....	do .....	20	1	3 do from do	48 00
Brandon and Rapid City .....	D. McNaught .....	20	6	9 do (to Dec. 31, '88)	900 00
do do .....	A. Stewart .....	20	6	3 do from do	187 50
Brandon and Railway Station .....	A. Munro .....	1	14	12 do	334 80
Brandon and Souris .....	R. B. Kirchoffer .....	25½	3	12 do	650 00
Brandon and Two Rivers .....	W. Telford .....	33½	2	12 do	680 00
Bridge Creek and Railway Station .....	R. Campbell .....	3	3	12 do	117 00
Brierwood and Roden .....	D. Aitken .....	6	1	12 do	50 00
Broadview and Railway Station .....	J. Clementson .....	1	12	12 do	100 00
Brookdale and Carbery .....	J. W. Newton .....	20	1	3 do (to June 30, '88)	37 50
do do .....	H. Glass .....	20	1	9 do from do	67 50
Brunton and Railway Station .....	W. Shepherd, sr. .....	1	1	9 do (from July 1, '88)	19 50
Burnside and Railway Station .....	W. A. McIntosh .....	5½	2	12 do	180 00
Butterfield and Workman .....	W. A. W. Smith .....	22	1	12 do	175 00
Cadurcis and Minnedosa .....	W. A. Smith .....	6	2	12 do	156 00
Calf Mountain and Thornhill .....	F. Bolton .....	6	2	12 do	130 00
Calgary and Mosquito Creek .....	Stewart Rancho Co .....	56	1	12 do	1,080 36
Calgary and Railway Station .....	G. C. King .....	1	12	12 do	300 00
Canille and Trehern Ry. Station .....	W. Cooper .....	10	2	9 do (to Dec. 31, '88)	150 00
do do .....	J. Palmer .....	10	2	3 do from do	52 00
Carberry and Railway Station .....	H. A. Perley .....	1	14	12 do	36 48
Carberry and Wellwood .....	J. W. Newton .....	16½	2	3 do (to June 30, '88)	62 50
do do .....	G. R. Black .....	14½	2	9 do from do	171 75
Carlingville and Oak River .....	S. C. Dimsmore .....	17	1	3 do (to June 30, '88)	60 00
do do .....	J. L. Fraser .....	17	1	9 do from do	131 25
Carlyle and Clare .....	T. Hislop .....	13	1	3 do (to June 30, '88)	37 50
do do .....	D. McEachen .....	13	1	6 do (to Dec. 31, '88)	49 00
Carlyle and Dennington .....	W. D. Kisbey .....	8	1	12 do	83 20
Carlyle and Percy .....	D. McEachen .....	18	1	3 do (from Jan. 1, '89)	33 92
Carman and Pomeroy .....	J. Sutton .....	8	1	12 do	80 00
Carman and Salterville .....	R. Squires .....	4	2	12 do	104 00
Carnduff and Sourisford .....	J. D. Bride .....	40	1	12 do	396 00
Caron and Railway Station .....	J. G. Macdonald .....	1	6	12 do	30 00
Carsdale and Regina .....	E. Carss .....	22	1	12 do	170 00
Cartwright and Railway Station .....	T. S. Menary .....	1	6	12 do	52 00
Castleberry and Shellmouth .....	J. Dugan, jr. .....	14	1	12 do	117 00
Chater and Railway Station .....	P. Dickson .....	1	12	12 do	62 60
Clandeboyne and Selkirk .....	A. M. Muckle .....	8	2	3 do (to June 30, '88)	40 00
do do .....	S. H. Ward .....	8	2	9 do from do	97 50

DETAIL of all payments for Mail Transportation in Manitoba, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Clarkeleigh and Lundyville.....	J. Clark.....	18	1 12	months.....	130 00
Clarkeleigh and Reaburn.....	do.....	40	2 12	do.....	328 20
Clarkeleigh and Seamo.....	T. Seaman.....	5	1 12	do.....	39 00
Clearwater and Railway Station.....	R. Rogers.....	4	6 12	do.....	78 00
Cook's Creek and Winnipeg.....	G. P. Bliss.....	22	2 9	do (from July 1, '88)	225 00
Craiglea and Roseberry.....	A. Kelso.....	12	1 12	do.....	104 00
Creelford and Neepawa.....	W. R. Dunlop.....	22	2 12	do.....	365 00
Crewe and Fort Ellice.....	J. Ellis.....	6	2 12	do.....	120 00
Crystal City and Railway Station.....	R. Rollins.....	1	6 12	do.....	60 00
Cypress River and Ry. Station.....	A. Creighton.....	8	4 12	do.....	26 00
Cypress River and St. Alphonse.....	J. N. Lee.....	8	2 12	do.....	130 00
Dalton and Catching Post.....	J. Parke.....	1	12 12	do.....	30 00
Daly and Virden.....	W. McDermaid.....	11	1 15	days (to April 15, '88).	3 09
do.....	A. Mooney.....	13 & 11	1 11	months 15 days (from April 14, '88).	83 23
DeClare and Welwyn.....	J. Scott.....	7	1 12	do.....	74 00
Deloraine and Napinka.....	S. Leach.....	23	1 9	do (to Dec. 31, '88).	175 50
Deloraine and Railway Station.....	R. D. Martin.....	16	6 12	do.....	50 00
Deloraine and Sourisford.....	A. Cochlan.....	28	2 9	do (to Dec. 31, '88).	351 00
do.....	T. Cochlan.....	28	2 3	do from do.....	128 70
Deloraine and Waneche.....	A. Stewart.....	20	1 12	do.....	156 00
Deloraine and West Brenda.....	S. Leach.....	32	1 3	do (from Jan. 1, '89)	75 00
Dominion City and Emerson.....	C. Whitman.....	10	3 3	do 21 dys (from Dec. 11, '88).	95 80
Dominion City and Ry. Station.....	R. Taylor.....	4	12 8	do 8 days (to Dec. 8, '88).	55 00
Donore and Railway Station.....	C. Whiteland.....	13	2 12	do.....	37 20
Douglas Station and Ry. Station.....	T. E. Greenwood.....	6	6 12	do.....	39 00
Drumconnor and Railway Station.....	E. Brown.....	5	4 12	do.....	43 65
Dunbow and Okotoks.....	R. A. Begg.....	10	1 12	do.....	133 25
Dunmore Junction and Ry. Station.....	W. B. Higginson.....	1	24 3	do (to June 30, '88).	27 00
do.....	W. A. Kellier.....	8	24 9	do from do.....	81 00
East Selkirk and Railway Station.....	A. Purdy.....	3	6 3	do (to June 30, '88).	25 00
do.....	J. D. Fraser.....	3	6 5	do (to Nov. 30, '88).	41 67
do.....	D. McLeod, jr.....	3	6 4	do from do.....	33 33
East Selkirk and Selkirk.....	R. Comber.....	2	3 12	do.....	75 00
Edgeley Farm and Qu'Appelle Station.....	W. C. Cameron.....	6 1/2	2 12	do.....	200 00
Edmonton and St. Albert.....	S. Moran.....	9	1 12	do.....	200 00
Elkhorn and Kola.....	C. W. Wainwright.....	18	1 3	do (to June 30, '88).	23 75
Elkhorn and Lippentott.....	W. F. Longman.....	20	1 9	do (from July 1, '88)	108 75
Elkhorn and Railway Station.....	J. McLeod.....	1	12 12	do.....	78 00
Elphinstone and Strathclair Station.....	A. R. Sutherland.....	9 1/2	2 12	do.....	123 76
Emerson and Gauthier.....	J. H. Vanwhort.....	19	2 8	do (to Nov. 30, '88).	223 33
Emerson and Gretna.....	C. Whitman.....	18	6 3	do 22 dys (from Dec. 10, '88).	265 79
Emerson and Letellier.....	J. H. Vanwhort.....	15 1/2	2 4	do (from Dec. 1, '88)	91 09
Emerson and Green Ridge.....	do.....	18	1 3	do (to June 30, '88)	45 50
Emerson and Railway Station.....	C. Whitman.....	3	6 & 24	8 do 8 days (to Dec. 8, '88).	165 21
Emerson and Stuartburn.....	J. H. Vanwhort.....	29 1/2	1 9	do (from July 1, '88)	253 50
Emerson and West Lynne.....	W. D. Hamilton.....	1	12 8	do 8 days (to Dec. 8, '88).	129 11
Erinview and Stonewall.....	A. J. Bell.....	25	1 9	do (to Dec. 31, '88).	124 98
do.....	W. E. Crawford.....	25	1 3	do from do.....	43 75
Esterhaz and Ohlen.....	N. Johanson.....	7	1 11	do (to Feb. 28, '89).	44 00
do.....	J. Vas.....	7	1 1	do from do.....	4 16
Fairfax and Souris.....	R. King.....	9	1 12	do.....	100 00
Fairmede and Wapella.....	A. H. Salmon.....	16	1 9	do (to Dec. 31, '88).	136 50
do.....	H. A. Hall.....	16	1 3	do from do.....	31 25
Ferndale and Hillburn.....	W. Moran.....	7	1 12	do.....	52 00

DETAIL of all payments for Mail Transportation in Manitoba, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Fernton and Winnipeg	C. F. Bridgman	4	3	9 months (from July 1, '88)	93 75
Fleming and Railway Station	M. Morrison	12	12	do	60 00
Fort Alexander and Peguis	M. Fontaine	50	Ftnly	12 do	182 00
Fort Francis and Rat Portage	C. Lewis	160	Ftnly	12 do	960 00
Fort McLeod and Lethbridge	F. Strong	30	3	12 do	750 00
Fort McLeod and New Oxley	Stewart Rancho Co.	28	1	12 do	686 24
Fort McLeod and Pincher Creek	G. C. Ives	32	1	3 do (to June 30, '88)	142 50
do do	M. Brouillette	32	2	9 do from do	356 25
Fort Saskatchewan and Pakan	Borwick & Erasmus	55	Ftnly	12 do	650 00
Gladstone and Golden Stream	D. McConnell	8	1	12 do	78 00
Gladstone and Mekiwin	J. McGregor	15	2	12 do	225 00
Gladstone and Plumas	L. A. Dunning	20	1	12 do	160 00
Gladstone and Railway Station	J. L. Logie	1	8	12 do	100 00
Gleichen and Railway Station	V. J. Beaupré	12	12	do	60 00
Glenboro' and Grund	S. Christopherson	5	2	12 do	100 00
Glenboro' and Railway Station	J. Duncan	1	4	12 do	30 00
Glenboro' and Sittakaw	F. W. Lipsett	4	2	6 days (to April 6, '88)	1 71
Glenboro' and Stockton	A. F. Andrews	7	2	8 do (to Nov. 30, '88)	69 33
do do	J. Dowd	9	1	2 do (to Jan. 31, '89)	26 00
do do	A. F. Andrews	9	2	2 do from do	26 00
Glendinning, Pilot Mound and Roseberry	J. M. Fraser	29½	22	1 12 do	450 00
Gonor and Railway Station	J. Gunn	3	2	12 do	100 00
Grandin and Wingard	C. Nolin	17	1	4 do (from Dec. 1, '88)	46 66
Green Ridge and Stuartburn	L. G. Ramsay	11½	1	3 do (to June 30, '88)	31 25
Grenfell and Railway Station	R. Routh	12	12	do	78 00
Gretna and Reinland	W. Esau	17	2	12 do	165 00
Gretna and Railway Station	J. R. Hoffman	1	14&18	12 do	159 00
Griswold Station and Ry. Station	G. Lindsay	1	12	do	80 00
Griswold Station and Viola Dale	W. Buchanan	42½	1	9 do 26 dys (to Jan. 26, 1889)	476 16
do do	G. E. Brown	42½	1	2 do (from Feb. 1, '89)	74 16
Hanlan and Meadow Lea	J. Macdonald	6½	1	12 do	52 00
Harrowby and Railway Station	S. Blane	1	2	12 do	25 00
Hayward and Qu'Appelle	H. H. Hayward	12	1	3 do (to June 30, '88)	32 50
do do	do	12	1	9 do from do	60 00
Helmsdale and Winnipeg	C. F. Bridgman	4	3	2 do (to June 30, '88)	20 83
High Bluff and Railway Station	J. A. Drummond	1	14	12 do	70 00
Holland and Railway Station	J. F. Holland	1	4	12 do	40 00
Holmfild and Railway Station	T. S. Young	1	6	12 do	60 00
Hun's Valley and Minnedosa	J. Murchison	18	1	6 do (to Sept. 30, '88)	71 25
do do	M. Raby	18	1	6 do from do	64 50
Icelandic River and Peguis	S. Jonasson	65	Ftnly	3 do (to June 30, '88)	93 75
do do	S. Sigurdson	60	do	9 do from do	258 75
Ignace and Railway Station	W. H. Cobb	1	12	do	80 00
Indianford and Treherne	H. Hamilton	12	1	9 do (to Dec. 31, '88, and arrears)	47 32
do do	H. Sturton	12	1	3 do (from do)	19 50
Indian Head and Railway Station	R. Crawford	1	12	do	156 00
Joly and Otterburne	E. Vinette	6	3	3 do (to June 30, '88)	33 00
do do	A. Lafrance	6	3&6	5 do 8 dys (to Dec. 8, '88)	30 24
do do	do	6	3	1 do (to Jan. 31, '89)	4 16
Joly and Ste. Agathe	do	15	2	2 do from Feb. 1, '89	20 83
Joly and Steinbach	E. Vinette	34	1	3 do (to June 30, '88)	43 75
do do	J. Cadotte	36	1	9 do from do	90 00
Kaministiquia and Railway Station	S. A. King	1	12	4 do (from Dec. 1, '88)	8 33
Kamsack and Wallace	J. C. Murray	22	Ftnly	5 do (from Nov. 1, '88)	37 91
Keewatin and Railway Station	A. Torrance	1	12	12 do	312 00
Kelroe Station and Railway Station	J. Higham	1	4	12 do	31 20
Kemnay and Railway Station	J. A. Scott	1	6	12 do	30 00
Killarney and Railway Station	C. Bate	1	6	12 do	52 00
Killarney and Rowland	J. Russell	16½	2	12 do	234 00
Kinistino and Prince Albert	R. Pritchard	48½	1	3 do (from Jan. 1, '89)	131 25

DETAIL of all payments for Mail Transportation in Manitoba, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					8 cts.
Kinistino and Puckalm .....	R. Pritchard .....	25	Ftn'ly	9 months (to Dec. 31, '88)	189 00
Kinosota and Westbourne .....	C. Anderson .....	65	do	12 do	248 00
La Broquerie and Winnipeg .....	J. B. Desautels .....	47	2	12 do	574 00
Langenburg and Railway Station .....	P. Ulrich .....	4	2	12 do	25 00
Langvale and Ninette .....	J. Overend .....	8	1	12 do	104 00
Larivière and Railway Station .....	W. H. Swales .....	3	6	12 do	52 00
Lebret and Qu'Appelle .....	J. P. Magnan .....	45	2	12 do	104 00
Lennox and Montefiore .....	H. Mantz .....	14 & 8	1	12 do	123 50
Lethbridge and Railway Station .....	H. F. Greenwood .....	2	12	4 do (to July 31, '88).	86 66
do do .....	J. D. Higinbotham .....	1	12	8 do from do	166 66
Lintrathen and Roseisle .....	A. Begg .....	12	1	12 do	88 40
Lowestoft and Morden .....	W. H. Lowe .....	18	1	12 do	160 00
McGregor Station and Ry. Station .....	T. R. Vardon .....	1	6	12 do	40 00
McGregor Station and Wellington .....	W. J. Thompson .....	8	1	12 do	72 80
McLean and Railway Station .....	J. B. Davis .....	3	6	12 do	150 00
Maple Creek and Railway Station .....	J. Dixon .....	4	12	12 do	156 00
Marieton and Regina .....	S. Beach .....	1	1	12 do	453 04
Marieton and Strassburg .....	A. Christoph .....	16	1	12 do	125 00
Marlborough and Moose Jaw .....	J. G. Beesley .....	14	1	12 do	104 00
Marney and Newdale .....	S. B. Baxter .....	7	1	12 do	46 80
Marringhurst and Otenaw .....	A. W. Playfair .....	15	1	12 do	124 80
Medicine Hat and Railway Station .....	T. Tweed .....	1	12	12 do	187 20
Medora and Princess .....	W. Cosgrove .....	5	1	6 do (from Oct. 1, '88).	19 50
Melgund and Souris .....	W. A. Dolmage .....	20	2	12 do	400 00
Melita and Sourisford .....	R. M. Graham .....	10	1	5 do (to Aug. 31, '88).	48 75
Menota and Napinka .....	J. S. Yeomans .....	6	1	3 do (from Jan. 1, '89)	18 75
Miami and Morden .....	J. G. Blair .....	19	2	12 do	215 00
Millbrook and Queen's Valley .....	J. Davies .....	7 1/2	1	9 do (from July 1, '88)	35 10
Millwood and Spy Hill .....	H. V. Bailey .....	12	1	4 do (to July 31, '88).	43 33
Minnedosa and Railway Station .....	T. Boyd .....	3	8	12 do	84 50
Minnedosa and Scandinavia .....	C. Johanson .....	20	1	12 do	200 00
Moffat and Wolesey .....	E. A. Banbury .....	9	2	12 do	124 00
Moline and Rapid City .....	D. McNaught .....	8	1	12 do	120 25
Montgomery and Whitewood Station .....	T. B. O'Donohue .....	20	1	12 do	182 00
Moose Jaw and Railway Station .....	J. A. Whitmore .....	2	12	12 do	200 00
Moosomin and Railway Station .....	J. Daniel .....	2	12	12 do	125 00
Moosomin and Redpath .....	J. Deavitt .....	41	1	12 do	249 00
Morden and Railway Station .....	J. M. Grover .....	1	12	5 do 6 days (to Sept. 6, '88).	54 40
do do .....	J. H. Dunsford .....	1	12	6 do 24 days (from Sept. 6, '88).	70 40
Morden and Stodderville .....	J. Stodders .....	10	2	12 do	176 80
Morris and Railway Station .....	W. A. Russell .....	1	12	12 do	40 00
Morris and St. Jean Baptiste .....	P. Parenteau .....	6	5	12 do	135 00
Neepawa and Oberon .....	J. McIntyre .....	13	2	3 do (to June 30, '88).	78 00
do do .....	S. Farrell .....	13	2	9 do from do	156 00
Neepawa and Orange Ridge .....	P. Winter .....	12	1	12 do	189 00
Neepawa and Railway Station .....	J. McIntyre .....	3	8	3 do (to June 30, '88).	26 00
do do .....	A. M. Dalton .....	2	8	9 do from do	81 90
Neepawa and Salisbury .....	J. McIntyre .....	7	2	12 do	156 00
Nelson and Opawaka .....	P. Angers .....	8 1/2	1	12 do	75 40
Newdale and Railway Station .....	J. L. Cook .....	1	8	12 do	67 00
Newdale and Raven's Glen .....	C. A. Rea .....	7	1	12 do	52 00
Niverville and Otterburne .....	M. Champagne .....			Special trips .....	2 50
Niverville and Railway Station .....	S. Lawson .....	4	12	3 mos. (to June 30, '88).	6 25
do do .....	F. J. Alden .....	4	12	5 do 8 days (to Dec. 8, '88).	10 93
Niverville and Royal .....	W. Gallie .....	9 1/2	2	2 do (from Feb. 1, '89)	26 00
Norman and Railway Station .....	J. B. Davies .....	1	6	9 do (to Dec. 31, '88).	74 90
do do .....	J. B. Nadon .....	1	6	3 do from do	30 00

DETAIL of all payments for Mail Transportation in Manitoba, &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Oakburn and Shoal Lake.	J. A. Hamilton.	9	2	12 months.	156 00
Oak Lake and Railway Station.	G. D. Miller.	12	12	do	78 00
Oakland and Portage la Prairie.	T. Huddleston.	14 & 17	1	12 do	127 50
Oak River and Tatonka.	J. Reid.	8	1	3 do (to June 30, '88).	26 00
do do	J. H. Stewart.	8	1	9 do from do	67 50
Orrowold and Raven Lake.	J. Brownridge.	12	1	12 do	104 00
Ossowo and Poplar Point.	F. Wagner.	7	12	do	159 00
Otterburne and Railway Station.	J. L. Ewing.	12	8	do 8 days (to Dec. 8, '88).	17 18
Otterburne and Royal.	J. Rougeau.	17	2	3 do 21 days (from Dec. 11, '88).	43 80
Parkin and Wapella.	W. Archibald.	12	1	12 do	75 00
Parklands and Qu'Appelle.	T. Murray.	11	1	12 do	75 00
Pasqua and Railway Station.	H. U. Rorison.	12	6	12 do	72 00
Peguis and Poplar Park.	J. Morrey.	8	1	12 do	57 20
Peguis and Selkirk.	J. McNabb.	6½	2	12 do	150 00
Penrith and Virden.	W. F. Scarth.	15	1	12 do	166 64
Pense and Railway Station.	A. Blair.	12	12	do	78 00
Pheasant Forks and Wolseley.	J. Franks.	39½	2	12 do	374 00
Pigeon Lake and Winnipeg.	E. Bourke.	25	2	12 do	545 00
Pilot Mound and Railway Station.	J. M. Fraser.	6	6	12 do	60 00
Poplar Point and Railway Station.	G. M. Jackson.	12	12	do	84 00
Portage la Prairie and Ry. Stations.	W. W. Miller.	1 & 12	12 & 14	do	487 48
Portage la Prairie—C. P. Ry. and M. and N. W. Ry. (transfer).	do	150 y's	3	do (from Jan. 1, '89)	12 50
Prince Albert and Puckahn.	R. Pritchard.	23½	1	9 do (to Dec. 31, '88).	170 49
Prince Albert & Qu'Appelle Station.	Leeson & Scott.	253	1	12 do	7,900 00
Qu'Appelle and Qu'Appelle Station.	R. Johnston.	18	6	12 do	470 00
Qu'Appelle Station & Ry. Station.	S. S. Nelson.	12	12	do	140 40
Rat Portage and Railway Station.	W. Oliver.	24	12	do	250 00
Raven Lake and Shoal Lake.	A. H. Scouten.	4½	2	12 do	130 00
Reaburn and Railway Station.	W. J. Paterson.	12 & 14	12	do	168 00
Reaburn and Woodlands.	J. Porteous.	13	2	3 do (to June 30, '88).	24 62
do do	W. W. Keeling.	13	2	8 do (to Feb. 28, '89).	100 00
do do	M. Slater.	13	1	do from do	12 50
Regina and Railway Station.	J. C. Irvine.	12	6	do (to Sept. 30, '88).	156 00
do do	C. Irvine.	12	6	do from do	156 00
Reinland and Schauenfedt.	B. Loewen.	9	1	12 do	70 00
Richland and Winnipeg.	J. Hourie.	40½	2	3 do (to June 30, '88).	161 92
do do	P. Blondin.	37½	2	9 do from do	375 00
Rosburn and Salsgirth.	R. R. Ross.	16	2	12 do	200 00
Rosser and Railway Station.	P. J. Sherlock.	12	12	do	30 00
Rounthwaite and Stratherne.	G. Stewart.	4	2	12 do	100 00
Sté. Agathe and Winnipeg.	A. Bernier.	25½	2	12 do	285 00
St. Boniface and Winnipeg.	M. Petrim.	1	12	do	350 00
Saltcoats and Railway Station.	W. Walley.	1	1	4 do (from Dec. 1, '88)	6 66
Selkirk and Winnipeg.	J. McNabb.	22½	3	12 do	720 00
Shadeland and Thornhill.	H. C. Sweet.	3½	2	12 do	160 00
Shoal Lake and Railway Station.	M. W. Thompson.	6	6	12 do	45 00
Sidney and Railway Station.	T. Babb.	2	2	12 do	52 00
Silver Spring and Railway Station.	R. Armstrong.	3½	2	12 do	130 00
Sintaluta and Railway Station.	G. C. Battiscombe.	3	3	3 do (to June 30, '88).	8 00
do do	C. G. Booth.	3	3	9 do from do	24 00
Solsgirth and Railway Station.	J. C. Anderson.	8	8	12 do	50 00
Sourisford and West Brenda.	F. L. Ketcheson.	18	1	4 do (to Dec. 31, '88).	52 00
Starbuck and Railway Station.	J. Powers.	4	4	12 do	30 00
Stonewall and Railway Station.	C. V. Tottle.	6	6	12 do	46 20
Stonewall and Wavy Bank.	J. Graham.	8	1	12 do	75 00
Stony Mountain and Ry. Station.	A. Perry.	1	12	do	100 00
Strathclair Station and Ry. Station.	W. L. McInnes.	8	8	12 do	40 00
Summerberry and Railway Station.	J. H. Love.	6	6	12 do	60 00
Swift Current and Ry. Station.	W. G. Knight.	12	12	do	96 00
Thornhill and Railway Station.	W. Bradley.	12	12	do	39 00
Touchwood Hills and Wishart.	J. Hall.	10	1	12 do	80 00



DETAIL of all payments for Mail Transportation in Manitoba, &c.—*Concluded.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Turtle Mountain and Ry. Station...	R. Scott.....	2½	2	6 months (to Sept. 30, '88)	52 00
do do .....	C. F. Keller....	4	2	3 do (to Dec. 31, '88)...	26 00
do do .....	P. S. Keller....	4	3	3 do from do .....	39 00
Vermilion Bay and Ry. Station...	W. McLaughlin..	1½	12	8 do (to Nov. 30, '88)...	16 00
do do .....	W. Montgomery	1½	12	1 do (to Dec. 31, '88)...	2 00
do do .....	J. A. Crawford..	1½	12	3 do from do .....	6 00
Virdeu and Railway Station.....	W. F. Scarth....	103	12	12 do .....	78 00
Wallace and Whitewood Station...	T. G. Lyons.....	2	1	12 do .....	704 52
Wapella and Railway Station.....	E. P. Benoit....	2	12	12 do .....	87 00
Westbourne and Railway Station...	Smalley & Chant- ler.....	1	12	12 do .....	100 00
Whitemouth and Railway Station...	J. S. Corregan..	1	12	12 do .....	130 00
Whitewood Station and Ry. Station.	T. G. Lyons.....	1	12	12 do .....	78 00
Winnipeg and Railway Station...	J. Sheppard....	3	As req	12 do .....	994 00
Winnipeg—Transferring Mails at Railway Station.....	do .....	1	12	do .....	300 00
Winnipeg and Street Letter Boxes..	Powell & Bliss..	1	21	12 do .....	730 00
Wolesey and Railway Station.....	J. P. Dill.....	1	12	12 do .....	200 00
Wood Bay and Railway Station....	M. Campbell....	3	3	12 do .....	65 00
Woodlands and Woonona.....	J. Hallett.....	6	1	12 do .....	52 00
Woodside and Railway Station....	N. Morrison....	1½	1	12 do .....	30 00
Total .....					\$79,147 92

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

DETAIL of all payments for Mail Transportation in Manitoba and the North-West Territories, made within the Year ended 30th June, 1889.

CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Canadian Pacific Railway (within Manitoba).....	1,373½	With varying frequency over different sections of the line.....	12 months (to 31st March, 1889).....	\$ cts. 71,128 40
Manitoba and North-Western Railway .....	155	12 do	do	3,912 22
North-West Coal and Navigation Co.....	169	12 do	do	2,078 59
				\$77,119 21

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster General.

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c.,  
in Manitoba and the North-West Territories, made within the Year  
ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		\$ cts.
S. & H. Borbridge.....	Mail bags, labels and repairs for Post Office Department.....	149 04
R. S. Montgomery.....	Mail bags, rivet seals and repairs do .....	183 10
G. Bailey .....	Repairing mail locks do .....	8 00
Smith & Egge Manu. Co.	Mail locks and keys do .....	7 00
E. Chanteloup.....	Mail lock keys do .....	2 00
	Total.....	\$349 14

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments for Mail Transportation in British Columbia, made within the Year ended 30th June, 1889.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Agassiz and Ry. Station.....	L. A. Agassiz.....	$\frac{1}{2}$	5	12 months.....	60 00
Alberni and Sayward Alberni.....	C. Taylor, jr.....	2	2	12 do (and arrears).....	75 00
Aldergrove and Mount Lehman.....	P. Jackman.....	9	1	12 do.....	100 00
Alkali Lake and Clinton.....	N. Haulon.....	80	1 & fly	12 do.....	1,000 00
Anthracite and Catching Post.....	A. Morgan.....	$\frac{1}{2}$	12	12 do.....	50 00
Ashcroft and Ry Station.....	H. P. Cornwall.....	2	2	12 do.....	105 00
Ashcroft Station and Barkerville.....	B. C. Express Co.....	279	1	1 do (to June 30, '88).....	1,545 00
Ashcroft Station, Clinton, Barker-ville and Lillooet.....	do.....	250.47	3 & 1	11 do (from July 1, '88).....	22,000 00
Ashcroft Station and Lillooet.....	do.....	77	1	1 do (to June 30, '88).....	455 00
Ashcroft Station and Ry. Station.....	T. G. Kirkpatrick.....	200y's	12	3 do (to June 30, '88).....	45 00
do do.....	W. B. V. Bailey.....	do	12	9 do from do.....	135 00
Banff and Ry. Station.....	R. Frank.....	$\frac{1}{2}$	12	2 do 8 days (to June 8, 1888).....	34 91
do do.....	R. G. Brett.....	$\frac{1}{2}$	12	12 do.....	260 00
Barkerville and Quesnelle Forks.....	F. Littler.....	50	F'tly	12 do.....	700 00
Beaver Point and Burgoyne Bay.....	A. McLennon.....	10	1	12 do.....	150 00
Burgoyne Bay and Wharf.....	S. Maxwell.....	$\frac{1}{2}$	As req	12 do.....	50 00
Burrard Inlet and Ry. Station.....	G. Black.....	200y's	12	12 do.....	60 00
Canmore and Ry. Station.....	J. Chenier.....	$\frac{1}{2}$	12	12 do.....	60 00
Cedar and Nanaimo.....	J. Hill.....	10	1	12 do.....	80 00
Chemainus and Ry. Station.....	H. Croft.....	$\frac{1}{2}$	6	11 do (to Feb. 28, '89).....	110 00
do do.....	H. Hague.....	$\frac{1}{2}$	6	1 do from do.....	10 00
Chilcote and Soda Creek.....	J. Salmon.....	40	F'tly & m'ly	12 do.....	268 75
Chilliwack and Ry Station.....	J. F. Harrison.....	6 $\frac{1}{2}$	5	12 do.....	650 92
Chilliwack and Sardis.....	A. S. Vedder.....	3	3	12 do.....	100 00
Chilliwack and Sumas.....	D. McGillivray.....	6	5	1 do (from Mar. 1, '89).....	22 00
Chilliwack and Wharf.....	C. P. Navigat. Co.....	14	3	Season 1888.....	32 50
Cobble Hill and Ry. Station.....	H. T. Porter.....	40yds	6	12 months.....	24 00
Cochrane and Ry. Station.....	J. Johnson.....	$\frac{1}{2}$	7	12 do.....	150 00
Corfield and Ry. Station.....	G. T. Corfield.....	1 $\frac{1}{2}$	6	12 do.....	180 00
Cowichan and McPerson's Station.....	H. H. Welch.....			Special trip.....	1 50
Cranbrook and Donald.....	E. Bray.....	200	F'tly & m'ly	1 month (to Apr. 30, '88).....	150 00
Cranbrook and Golden.....	F. P. Armstrong.....	200	do	11 do (from May 1, '88).....	907 50
Donald and Ry Station.....	G. H. Preswell.....	$\frac{1}{2}$	12	12 do.....	240 00
Douglas Lake and Quilchena.....	J. B. Greaves.....	22	1	5 do (from Nov. 1, '88).....	62 50
Duck and Pringle and Ry. Station.....	O. S. Batchelor.....	300y's	6	12 do.....	60 00
East Wellington and Nanaimo.....	W. Badcock.....	3	6	12 do.....	180 00
Elgin and New Westminster.....	D. Stewart.....	12	1	12 do.....	120 00
Emory and Yale.....	F. W. Geisler.....	5	1	12 do.....	50 00
Enderby and Sicamous.....	A. Schubert.....	36	1w. 2s.	5 do (to Aug. 31, '88).....	75 00
Enderby, Sicamous and Vernon.....	do.....	26 & 24	2 & 1	7 do (from Sept. 1, '88).....	315 00
Esquimalt and Victoria.....	W. G. Bowman.....	3	24	3 do (to June 30, '88).....	100 00
do do.....	C. J. King.....	4	24	9 do from do.....	225 00
Gabriola Island and Wharf.....	A. Shaw, jr.....	23	2	12 do.....	60 00
Golden and Ry. Station.....	R. Lang.....	400y's	12	12 do.....	120 00
Goldstream and Ry. Station.....	J. Phair.....	$\frac{1}{2}$	6	12 do.....	120 00
Granite Creek and Lower Nicola.....	W. T. Thompson.....	65	M'ly	12 do.....	240 00
Granite Creek and Princeton.....	do.....	12	1	4 do (from Dec. 1, '88).....	20 00
Hall's Prairie and New Westminster.....	H. T. Thrift.....	23	1	12 do.....	275 00
Harrison River and Ry. Station.....	J. Barker.....	$\frac{1}{2}$	4	12 do.....	60 00
Hope and Ry. Station.....	J. Wardle.....	2	6	12 do.....	159 50
Illicilewaet and Ry. Station.....	W. T. Artherton.....	$\frac{1}{2}$	12	12 do.....	40 00
Johnson's Landing and Matsqui.....	R. C. Garner.....	5 $\frac{1}{2}$	2	12 do.....	180 00
Kamloops and Okanagan Mission.....	A. Schubert.....	120	1	12 do.....	1,200 00
Kamloops and Ry. Station.....	A. J. Venn.....	1	12	15 days (to Apr. 15, '88).....	15 00
do do.....	E. H. Jones.....	1	12	11 months, 15 days (from April 15, '88).....	350 00

DETAIL of all payments for Mail Transportation in British Columbia, made within  
the Year ended 30th June, 1889—*Concluded.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Kamloops and Spence's Bridge.....	J. Clark.....	100	1	12 months.....	1,800 00
Kananaskis and Mail Catching Post.....	J. A. Walker.....	100 y's	12	12 do.....	45 00
Koksilah and Railway Station.....	C. Crosier.....	30 y's	6	12 do.....	40 00
Langley and Railway Station.....	O. J. J. Wilkie.....	4	5	12 do.....	296 31
Lytton and Railway Station.....	L. Cuvreau.....	3	3 & 12	12 do.....	105 00
McPherson's Station and Ry. Station.....	G. Jones.....	70 y's	6	12 do.....	40 00
Maple Bay and Railway Station.....	J. Kier.....	6	3	12 do.....	180 00
Matsqui and Mount Lehman.....	T. H. Lehman.....	5	3	12 do.....	220 00
Matsqui and Railway Station.....	J. Trethewey.....	4	12	12 do.....	180 00
Metchosin and Victoria.....	J. Parker.....	25	1	12 do.....	250 00
Millward and Railway Station.....	J. McDougall.....	3	2	12 do.....	100 00
Morley and Railway Station.....	R. Scott.....	100 y's	12	5 do 17 days (from Oct. 15, '88).....	18 33
Nanaimo and Railway Station.....	J. Ganner.....	4	24	12 do.....	300 00
Nanaimo and Sayward Alberni.....	W. Armstrong.....	54	1	12 do.....	619 00
New Westminster and Port Moody.....	W. E. Falls.....	6	6	3 do (to June 30, '88).....	150 00
New Westminster and Ry. Station.....	A. Heffren.....	4	12	12 do.....	180 00
New Westminster and Vancouver.....	G. R. Raymond.....	12	3	12 do.....	465 00
do do.....	do.....	12	6	12 do.....	600 00
North Bend and Railway Station.....	P. Fink.....	100 y's	6	12 do.....	24 00
North Saanich and Victoria.....	H. Simpson.....	24	2	12 do.....	445 00
Okanagon Mission and Osoyoos.....	J. Brent.....	85	Mthly	12 do.....	414 00
Otter Point and Victoria.....	T. Tugwell.....	30	1	6 do (to Sept. 30, '88).....	100 00
do do.....	E. Gordon.....	30	1	6 do from do.....	100 00
Osoyoos and Rock Creek.....	J. Brent.....	27	Mthly	11 do (from May 1, '88).....	220 00
Port Hammond and Ry. Station.....	W. J. Harris.....	100 y's	3	12 do.....	60 00
Port Haney and Railway Station.....	D. Dockstader.....	50 y's	12	12 do.....	60 00
Port Moody and Mail Catching Post.....	J. Tays.....	12	12	12 do.....	60 00
Quadra and Wharf.....	R. T. Swan.....	1	1	12 do.....	32 00
Quamichan and Railway Station.....	W. P. Jaynes.....	13	6	12 do.....	180 00
Revelstoke and Railway Station.....	J. Liberty.....	4	12	12 do.....	365 00
Roger's Pass and Railway Station.....	J. M. Carroll.....	150 y's	6	12 do.....	50 00
Salt Spring Island and Wharf.....	J. Broadwell.....	3	As reqd	12 do.....	150 00
Savona's Ferry and Railway Station.....	J. H. Macnab.....	30 y's	12	12 do.....	40 00
Sea Island and Vancouver.....	H. C. Magee.....	10	3	7 do (from Sept. 1, '88).....	140 00
Shuswap and Railway Station.....	A. McBryan.....	200 y's	6	12 do.....	60 00
Sicamous and Railway Station.....	S. Appleby.....	400 y's	12	12 do.....	120 00
Somenos and Railway Station.....	J. Kier.....	11	6	12 do.....	180 00
Spence's Bridge and Ry. Station.....	J. Murray.....	4	12	12 do.....	100 00
Sumas and Railway Station.....	D. W. Miller.....	4	5	12 do.....	414 10
Sumas and Upper Sumas.....	E. T. Hall.....	14	1	12 do.....	124 80
Vancouver and Railway Station.....	H. A. Berry.....	4	12	12 do.....	280 00
Vancouver and Street Letter Boxes.....	J. J. Tierney.....	4	6	10 do (from June 1, '88).....	200 00
Vancouver and Wharf.....	H. A. Berry.....	4	12	12 do.....	190 50
do do.....	do.....	4		Special trips.....	37 00
Victoria and Railway Station.....	W. G. Bowman.....	4	12	12 months.....	292 50
do do.....	J. Ecderslex.....	4		Special trip.....	0 50
Victoria and Street Letter Boxes.....	J. Smith.....	12	12	9 mos. (from July 1, '88).....	316 66
Victoria and Wharf.....	Victoria Transfer Co.....	1	12	12 do.....	360 00
Wellington and Railway Station.....	J. Hill.....	4	12	12 do.....	120 00
Whomock and Railway Station.....	N. Oliver.....	4	12	12 do.....	60 00
Yale and Railway Station.....	W. Teague.....	100 y's	12	12 do.....	60 00
Total.....					\$44,783 78

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

DETAIL of all payments for Mail Transportation in British Columbia, made within the Year ended 30th June, 1889.  
CONVEYANCE OF MAILS BY STEAMBOATS AND SAILING VESSELS.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Comox, Nanaimo and New Westminster	W. Rogers	100	1	12 months (to 31st March, 1889)	\$ cts. 3,000 00
Fort Simpson and Victoria	J. D. Warren	600	1 per month	do	2,000 00
Moodysville and Vancouver	D. McPhaiden	31	9	do	500 00
Nanaimo and Victoria	J. H. Turner	75	2 s. & 1 w.	do	1,800 00
New Westminster and Sea Island	W. F. Stewart	15	1	do	122 50
New Westminster and Victoria	C. P. Navigation Co.	75	3	(to 30th Sept., 1888)	2,000 00
New Westminster, Victoria and Chilliwack	do	75	3	(to 30th June, 1888)	5,625 00
Vancouver and Victoria	C. P. Railway Co.	90	1	(to 31st March, 1889)	8,000 00
Victoria and Port Townsend, U.S.	Oregon Ry. and Nav. Co.	40	6	do	195 00
Victoria, Skeena and Way Ports	H. Saunders	600	As required	13 trips	206 89
Sea rate upon correspondence passing between Canada, China and Japan	C. P. Ry. and Steamship Co.			Total	\$39,449 39

N.B.—For Special Mail Subsidies and Steamship Subventions, see page 9.

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

DETAIL of all payments for Mail Transportation in British Columbia, made within the Year ended 30th June, 1889.

CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
				\$ cts.
Canadian Pacific Railway (within British Columbia).....	650½	6	12 months (to 31st March, '89).	36,117 18
Esquimalt and Nanaimo Railway.....	78	6	12 do do	3,893 76
			Total.....	\$40,010 94

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c., in British Columbia, made within the Year ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		\$ cts.
S. & H. Borbridge.....	Mail bags, labels and repairs for Post Office Department.....	203 90
Pritchard & Andrews.....	Mail bag labels do.....	15 50
R. S. Montgomery.....	Lead rivet seals, &c., do.....	2 16
E. Chanteloup.....	Mail locks and keys do.....	16 25
Smith & Egge Manufacturing Co. do.....	do do.....	10 50
G. Bailey.....	do Postmaster, Victoria.....	4 14
	Total.....	\$252 45

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

## PROVINCE OF PRINCE EDWARD ISLAND.

DETAIL of all payments for Mail Transportation in Prince Edward Island,  
made within the year ended 30th June, 1889.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Albany and Tryon ( <i>via</i> North Tryon).....	C. Crawford.....	6 & 2	2 & 1	12 months.....	96 25
Alberton and Kildare.....	R. Tuplin.....	10	2	12 do.....	60 00
Alberton and Lot 6.....	W. Hardy.....	6	2	12 do.....	50 00
Alberton and Railway Station.....	T. Keefe.....	$\frac{1}{2}$	12	12 do.....	60 00
Alma and Railway Station.....	J. Mountain.....	$\frac{1}{2}$	2	12 do.....	20 80
Appin Road and Bonshaw.....	J. W. Smith.....	4	1	12 do.....	22 48
Argyle Shore and Bonshaw.....	A. Morrow.....	3	2	12 do.....	30 00
Armada and Railway Station.....	H. A. McPhee.....	$\frac{1}{2}$	3	12 do.....	20 00
Baldwin's Road and Perth Station.....	D. Reid.....	$\frac{1}{2}$	2	12 do.....	20 80
Bangor and Morell Station.....	W. Jardine.....	4	2	3 do (to June 30, '88).....	9 75
do do.....	J. McGregor.....	4	2	9 do from do.....	32 25
Bay Fortune and Souris East.....	J. McKie.....	10 $\frac{1}{2}$	2	12 do.....	88 00
Beach Point and Montague Bridge.....	A. Martin.....	22	3	12 do.....	460 00
Bear River and Clear Springs.....	C. McDonald.....	8	3	12 do.....	120 00
Bear River and Railway Station.....	D. Costello.....	$\frac{1}{2}$	3	12 do.....	15 60
Bedeque and Charlottetown.....	B. Toole.....	41	3	12 do.....	774 00
Bedeque and Sea Cow Head.....	W. A. Noonan.....	$\frac{1}{2}$	2	12 do.....	46 80
Bedeque and Summerside.....	G. M. Pierce.....	11	3	12 do.....	120 00
Belfast and Charlottetown.....	G. W. O'Neill.....	24	6	12 do.....	950 00
Belfast and Garfield.....	A. A. Martin.....	3	2	12 do.....	30 00
Belfast and High Bank.....	E. W. Martin.....	22 $\frac{1}{2}$	3	12 do (and arrears).....	402 90
Belfast and Point Prim.....	M. Martin.....	6 $\frac{1}{2}$	2	12 do.....	50 00
Bloomfield and Railway Station.....	J. O'Halloran.....	2	3	12 do.....	55 00
Bloomfield Station and Railway Station.....	F. Peters.....	$\frac{1}{2}$	6	12 do.....	25 00
Blooming Point and Tracadie Cross.....	J. B. McDonald.....	$\frac{1}{2}$	2	12 do.....	34 72
Bonshaw and Nine Mile Creek.....	N. H. McNevin.....	12	2	12 do.....	69 00
Brackley Point and Shaw's Hotel.....	N. Shaw.....	3	3	Season 1888.....	11 70
Breadalbane and New London.....	G. W. Bell.....	12	6	12 months.....	398 00
Brown's Creek and Whim Road Cross.....	J. McDonald.....	$\frac{1}{2}$	3	12 do.....	26 00
Caledonia and Iris.....	A. Beaton.....	3	2	12 do.....	32 00
Caledonia and Orwell.....	M. Martin.....	10	3	3 do (to June 30, '88).....	38 50
do.....	A. McLeod.....	10	3	9 do from do.....	85 86
Caledonia and Rona.....	J. McLeod.....	4	2	12 do.....	32 00
Cape Egmont and Fifteen Point.....	L. D. Gallant.....	5	2	12 do.....	41 60
Cape Traverse Boat House and Railway Terminus.....	A. Strang.....	$\frac{1}{16}$	As req	Special trips.....	29 67
Cape Traverse and Summerside.....	do.....	15	As req	Season 1888-89.....	120 70
Cape Wolfe and Lot 4.....	J. J. Fish.....	6	2	12 months.....	62 00
Cardigan Bridge and Corraville.....	J. Sigsworth.....	6	2	12 do.....	52 00
Cardigan Bridge and Head of Cardigan.....	M. McAuley.....	4	2	12 do.....	41 60
Cardigan Bridge and Lot 56.....	J. J. Campbell.....	13 $\frac{1}{2}$	3	3 do (to June 30, '88).....	71 39
do do.....	J. McDonald.....	13 $\frac{1}{2}$	3	9 do from do.....	127 50
Cardigan Bridge and Mitchell River.....	H. McPhee.....	3	2	12 do.....	40 00
Cardigan Bridge and Railway Station.....	J. McVean.....	$\frac{1}{2}$	12	12 do.....	34 68
Cardigan Road and Railway Station.....	J. Smith.....	$\frac{1}{2}$	3	12 do.....	18 72
Cavendish and Hunter's River.....	J. Crew.....	31 r. t.	3	12 do.....	148 00
Charlottetown and Railway Station.....	G. Weldon.....	$\frac{1}{2}$	As req	12 do.....	278 18
Charlottetown and Rocky Point.....	J. Smith.....	2 $\frac{1}{2}$	2	12 do.....	42 64
Charlottetown and Street Letter Boxes.....	G. Weldon.....	.....	14	8 do (from Aug. 1, '88).....	60 75
Cherry Valley and China Point.....	M. Gleeson.....	2	2	3 do (to June 30, '88).....	7 50
do do.....	R. Ings.....	3 $\frac{1}{2}$	2	3 do (from Jan. 1, '89).....	13 12
Clermont and Kensington.....	A. C. McLellan.....	3	2	12 do.....	33 00
Clinton and New London.....	G. McKay.....	2 $\frac{1}{2}$	2	12 do.....	28 00



DETAIL of all payments for Mail Transportation in P.E.I., &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
Clyde Station and Railway Station.	E. Crabbe.....	$\frac{1}{16}$	3	12 months.....	14 00
Coleman and Railway Station.....	A. McKinnon.....	$\frac{1}{16}$	6	11 do .....	30 00
Commercial Road and Peters Road.	W. Johnston.....	$\frac{2}{3}$	2	11 do .....	30 00
Covehead Road and Grand Tracadie	T. Kelly.....	5	2	12 do .....	49 40
Darlington and Kelly's Cross.....	J. Keegan.....	11	3	12 do .....	115 00
Darlington and New Wiltshire.....	D. L. McLeod.....	1	2	12 do .....	17 00
Darlington and Princetown Road..	do .....	3	2	12 do .....	18 00
Darlington and Railway Station....	do .....	$\frac{3}{4}$	6	12 do .....	35 00
Darlington and Rose Valley.....	do .....	8	3	12 do .....	85 00
Darney and Kensington.....	J. Glover.....	12	3	12 do .....	190 00
De Blois Station and Railway Station	C. Perry.....	$\frac{3}{4}$	3	12 do .....	20 00
Dromore and Railway Station.....	J. McCabe.....	2	2	12 do .....	26 00
Dundas and Upton.....	F. McDonald.....	3	2	12 do .....	38 00
East Baltic and Red Point.....	D. McEachern.....	4	2	12 do .....	30 00
East Point and Souris East.....	J. Kennedy.....	15	2	12 do .....	130 00
Elliot's Mills and Railway Station..	R. Elliot.....	$\frac{1}{8}$	3	12 do .....	15 60
Elliotvale and Peake's Station.....	J. Edmonds.....	$\frac{3}{2}$	2	12 do .....	27 00
Elmira and South Lake.....	L. McDonald.....	2	2	12 do .....	23 92
Elmsdale and Railway Station.....	J. Adams.....	$\frac{1}{16}$	3	12 do .....	11 00
Emerald and Graham's Road.....	R. McDonald.....	7	3	12 do .....	100 00
Emerald and Kinkora.....	W. Clarke.....	16 r. t.	2	12 do .....	75 00
Emerald and Railway Station.....	P. A. Hughes.....	$\frac{1}{2}$	12	12 do (and extra trips).	110 45
Farmington and Head of St. Peter's Bay	E. Power.....	5	2	12 do .....	50 00
Farmington and Mansfield.....	T. Boling.....	$\frac{3}{2}$	2	12 do .....	26 00
Fifteen Point and Miscouche.....	G. Des Roches.....	9	2	12 do .....	67 00
Fitzgerald Station and Railway Station	J. Lawlor.....	$\frac{1}{16}$	3	4 do (from Dec. 1, '88).	1 66
Flat River and Selkirk Road.....	J. Callaghan.....	$\frac{6}{2}$	2	12 do .....	40 00
Forest Hill and Head of St. Peter's Bay	R. Matheson.....	4	2	12 do .....	48 00
Fredericton and Railway Station....	J. Weeks.....	$\frac{1}{16}$	3	12 do .....	18 00
Freetown and Lower Freetown.....	T. Taylor.....	$\frac{2}{3}$	2	12 do .....	29 00
Freetown and Railway Station.....	R. B. Auld.....	$\frac{1}{3}$	6	12 do .....	46 95
French Village and Mount Stewart.	C. McIntyre.....	5	2	12 do .....	64 00
Gasperaux and Mink River Road..	H. Young.....	3	3	3 do (to June 30, '88).	4 00
Georgetown and Murray Harbor North	do .....	12	3	3 do to do ..	50 00
Georgetown and Murray Harbor North	R. Thornton.....	30 r. t.	3	9 do from do ..	198 75
Georgetown and Newport.....	P. McIntyre.....	$\frac{2}{3}$	3	12 do .....	68 00
Georgetown and Railway Station....	R. R. Jenkins.....	$\frac{1}{3}$	12	12 do (and extra trips).	115 28
Georgetown and Steamer "Stanley"	do .....	$\frac{3}{3}$	As req	Special trips ..	24 60
Glencorradale and Priest Pond.....	J. McPhee.....	$\frac{3}{2}$	2	12 months ..	23 92
Glenfuman and Johnston's River...	W. J. Brazel.....	$\frac{2}{3}$	2	3 do (to June 30, '88).	6 50
Glen William and Murray River...	J. Martin.....	$\frac{3}{2}$	2	12 do .....	33 28
Gowan Brae and Souris East.....	J. E. Manning.....	3	2	12 do .....	30 16
Greenwich and Head of St. Peter's Bay	F. W. McEwan.....	$\frac{3}{2}$	2	12 do .....	30 00
Harrington and Winsloe Road.....	R. Lawson.....	$\frac{1}{2}$	2	12 do .....	32 00
Hazel Green and Peake's Station...	H. R. Moone.....	6	2	12 do .....	57 48
Head of Hillsboro' and Mount Stewart	D. D. Coffin.....	$\frac{4}{2}$	2	12 do .....	46 80
Head of St. Peter's Bay and Monticello	J. McInnis.....	$\frac{8}{2}$	2	12 do .....	61 00
Head of St. Peter's Bay and Railway Station.....	A. McAulay.....	$\frac{1}{4}$	12	12 do .....	100 00
Higgin's Road and Wellington Station	D. McNeil.....	13	3	12 do .....	156 00

DETAIL of all payments for Mail Transportation in P.E.I., &c.—*Continued.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Hopefield and Murray River.....	A. McPhee.....	4	2	12 months.....	40 00
Hunter's River and North Rustico.....	J. Crew.....	16	3	12 do.....	146 00
Hunter's River and Railway Station.....	P. McGrath.....	17 $\frac{1}{2}$	12	do (and extra trips).....	68 94
Inverness and Railway Station.....	L. Hughes.....	2	2	12 do.....	41 00
Johnston's River and Southport.....	A. Beagan.....	11	2	3 do (to June 30, '88).....	23 40
do do.....	T. Corcoran.....	12 $\frac{1}{2}$	2	6 do (to Dec. 31, '88).....	37 50
do do.....	W. J. Brazel.....	12 $\frac{1}{2}$	2	3 do from do.....	18 75
Kensington and Park Corner.....	G. Mayhew.....	16 $\frac{1}{2}$	3	3 do (to June 30, '88).....	48 50
do do.....	H. McLeod.....	16 $\frac{1}{2}$	3	9 do from do.....	123 00
Kensington and Railway Station.....	G. Glover.....	17 $\frac{1}{2}$	12	12 do (and extra trips).....	68 94
Kildare Capes and Tignish.....	M. Dillon.....	4	2	6 do (to Sept. 30, '88).....	20 80
do do.....	J. Des Roches.....	4	2	6 do from do.....	20 80
Kildare Capes and Railway Station.....	H. Gaudet.....	1 $\frac{1}{2}$	2	12 do.....	12 48
Kinross and Lyndale.....	A. Lamont.....	3	1	5 do (from Nov. 1, '88).....	10 00
Kinross and Orwell.....	J. Murchison.....	1	3	9 do (from July 1, '88).....	41 25
Lansdowne Hotel and Railway Station.....	A. Strang.....	17 $\frac{1}{2}$	3	9 do do.....	3 75
Launching and Newport.....	A. Morrison.....	8	2	12 do.....	65 00
Little Tignish and Tignish.....	J. J. Buote.....	4	2	12 do.....	25 00
Little York and Marshfield.....	R. Lawson.....	1 $\frac{1}{2}$	2	12 do.....	35 00
Little York and Railway Station.....	T. H. Lawson.....	17 $\frac{1}{2}$	12	12 do.....	62 40
Little York and Union Road.....	R. Lawson.....	22 r. t.	3	12 do.....	180 00
Lot 4 and Miminegash.....	J. Doyle.....	5	2	12 do.....	67 60
Lot 4 and Railway Station.....	J. M. O'Halloran.....	4	6	12 do.....	124 80
Lot 10 and Railway Station.....	H. Ritchie.....	1 $\frac{1}{2}$	2	12 do.....	26 00
Lot 11 and Railway Station.....	T. Bulger.....	5 $\frac{1}{2}$	3	12 do.....	58 00
Lot 12 and Railway Station.....	R. Hayes.....	2	12	12 do.....	87 64
Lot 14 and Railway Station.....	J. Smith.....	5	3	12 do.....	63 96
Lot 35 and Railway Station.....	M. Lawler.....	1 $\frac{1}{2}$	2	12 do.....	33 28
Lot 40 and Railway Station.....	A. H. McEwen.....	1	6	12 do.....	48 48
Lot 56 and Sailor's Hope.....	F. McDonald.....	5 $\frac{1}{2}$	2	12 do.....	45 00
Marie and Milburn.....	P. Long.....	3 $\frac{1}{2}$	2	12 do.....	20 00
Marie Bridge and Morell Road.....	A. Webster.....	1	3	3 do (from Jan. 1, '89).....	3 75
Midgell and Morell Station.....	P. Long.....	5	3	12 do.....	45 00
Mill Cove and Railway Station.....	B. Hughes.....	2	2	12 do.....	20 00
Mill River and Railway Station.....	F. Peters.....	17 $\frac{1}{2}$	2	12 do.....	15 00
Mill View and Vernon River Bridge.....	F. Storry.....	2	6	12 do.....	76 00
Milton Station and North Milton.....	W. McNeill.....	2	2	12 do.....	26 00
Milton Station and Railway Station.....	do.....	17 $\frac{1}{2}$	3	12 do.....	31 00
Miscouche and Railway Station.....	G. Desroches.....	9 $\frac{1}{2}$	12	12 do.....	36 00
Miscouche and South West Lot 16.....	S. McNeill.....	9 $\frac{1}{2}$	2	12 do (and arrears).....	82 00
Monaghan and Pownal.....	B. Jenkins.....	8 $\frac{1}{2}$	2	12 do.....	95 00
Montague Bridge and Railway Station.....	J. McNeill.....	5 $\frac{1}{2}$	6	12 do.....	325 00
Montague Bridge and Valleyfield.....	W. McLeod.....	5	3	12 do.....	84 36
Montague Bridge and Victoria Cross.....	J. Dewar.....	3	3	12 do.....	57 00
Montague Cross and Murray Harbor Road.....	J. McLean.....	2 $\frac{1}{2}$	3	12 do.....	26 40
Morell Rear and Morell Station.....	R. D. Sterns.....	4 $\frac{1}{2}$	2	12 do.....	37 00
Morell Station and Railway Station.....	M. Coffin.....	17 $\frac{1}{2}$	12	12 do.....	15 60
Mount Herbert and Southport.....	R. Wood.....	6 $\frac{1}{2}$	2	9 do (from July 1, '88).....	37 50
Mount Pleasant and Railway Station.....	H. N. Robinson.....	3 $\frac{1}{2}$	2	12 do.....	41 60
Mount Stewart and Railway Station.....	H. McEachern.....	17 $\frac{1}{2}$	12	12 do.....	20 00
Murray Harbor South and White Sands.....	J. Brehaut.....	3	2	12 do.....	46 00

DETAIL of all payments for Mail Transportation, in P.E.I., &c.—*Concluded.*

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount
					8 cts.
New Haven and Riverdale .....	D. McFayden .....	3½	2	12 months .....	36 00
Newton Cross and Orwell .....	D. Cody .....	2	2	12 do .....	26 00
New Zealand and Railway Station .....	J. Cantwell .....	½	3	12 do .....	15 60
Norham and Railway Station .....	H. J. Folland .....	1½	6	12 do .....	20 00
North Lake and Souris East .....	W. McLaren .....	24	3	12 do .....	213 00
North River and South Wiltshire .....	T. Yeo .....	4	3	12 do .....	50 00
O'Leary Station and Railway Station .....	J. Frost .....	1½	6	12 do .....	15 65
O'Leary Station and West Cape .....	R. Ellis .....	9	2	3 do (to June 30, '88) .....	22 00
do do .....	W. Ellis .....	9	2	9 do from do .....	62 61
Orwell and Orwell Cove .....	A. Loughran .....	2	3	12 do .....	49 00
Palmer Road and Railway Station .....	W. Kinch .....	3	2	12 do .....	35 00
Palmer Road and Waterford .....	do .....	4	2	12 do .....	20 00
Peake's Station and Railway Station .....	J. F. McDonald .....	1½	3	12 do .....	15 60
Pinsville and Railway Station .....	A. Wedge .....	2	2	12 do .....	26 00
Pisquid and Railway Station .....	A. McDonald .....	1½	2	12 do .....	33 28
Pisquid and Webster's Corners .....	P. McNally .....	6	3	12 do .....	52 00
Pisquid Road and Vernon River .....	E. O'Keefe .....	3	2	12 do .....	46 00
Port Hill and Railway Station .....	L. Yeo .....	4	12	12 do .....	187 80
St. Andrews and Railway Station .....	J. McDonald .....	1½	3	12 do .....	25 00
St. Eleanors and Summerside .....	H. Mills .....	2½	6	12 do .....	74 00
Scotchfort and Railway Station .....	J. McDonald .....	1½	2	12 do .....	12 48
Sea Cow Pond and Tignish .....	T. Bernard .....	7½	2	12 do .....	50 00
Skinner's Pond and Tignish .....	P. Aylward .....	16	2	12 do .....	58 00
Souris East and Railway Station .....	L. Cheverie .....	½	12	12 do (and extra trips) .....	71 40
Suffolk Station and Railway Station .....	J. A. Ferguson .....	1½	2	12 do .....	17 68
Summerside and Railway Station .....	R. Glover .....	½	As req	12 do .....	161 44
Summerside and Street Letter Boxes .....	do .....		14	3 do (from Jan. 1, '89) .....	6 25
Summersville and Vernon River .....	D. Fraser .....	4½	3	6 do (to Sept. 30, '88) .....	27 00
do do .....	E. Fraser .....	4½	3	6 do from do .....	27 00
Ten Mile House and Railway Station .....	J. Fitzpatrick .....	1½	2	12 do .....	20 00
Tignish and Railway Station .....	D. Villard .....	½	12	12 do .....	40 00
Tracadie Cross and Railway Station .....	A. Johnston .....	½	3	12 do .....	28 08
Travellers' Rest and Railway Station .....	T. Townsend .....	1	3	12 do .....	39 00
Wellington and Wellington Station .....	J. A. Arsenault .....	1½	2	12 do .....	21 48
Wellington Station and Railway Station .....	F. J. Arsenault .....	1½	12	12 do .....	20 00
Western Road and Railway Station .....	P. Reid .....	1½	2	12 do .....	25 00
West Point and Railway Station .....	P. McPhee .....	13	2	12 do .....	104 00
West St. Peters and Railway Station .....	J. McDonald .....	2½	2	12 do .....	36 25
Wilmot Valley and Railway Station .....	W. B. Bowness .....	3½	2	12 do .....	53 23
Winsloe Station and Railway Station .....	J. Burrows .....	1½	3	12 do .....	15 00
				Total .....	\$12,802 52

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

DETAIL of all payments for Mail Transportation in Prince Edward Island,  
made within the year ended 30th June, 1889.

CONVEYANCE OF MAILS BY STEAMBOATS AND SAILING VESSELS.

Name of Route.	Name of Contractor.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
					\$ cts.
Charlottetown and Pictou, N.S., &c.	P. E. Island S. N. Co. ....	60 & 45	4 & 6	(In addition to subsidy) ..	1,742 00

N.B.—For Special Mail Subsidies and Steamship Subventions, see page 9.

WILLIAM WHITE,

*Deputy Postmaster-General.*

W. H. SMITHSON,

*Accountant.*

DETAIL of all payments for Mail Transportation in Prince Edward Island,  
made within the year ended 30th June, 1889.

CONVEYANCE OF MAILS BY RAILWAYS.

Name of Railway.	Distance in Miles.	No. of Trips per Week.	Period.	Amount.
				\$ cts.
Prince Edward Island Railway....	201½	With varying frequency over different sections of the line.....	15 months (to 30th June, 1889), including special service and arrears....	21,337 55
				\$21,337 55

WILLIAM WHITE,

*Deputy Postmaster-General.*

W. H. SMITHSON,

*Accountant.*

DETAIL of all payments for making and repairing Mail Bags, Mail Locks, &c.,  
in Prince Edward Island, made within the year ended 30th June, 1889.

Tradesmen's Names.	Particulars of Disbursements.	Amount.
		\$ cts.
S. & H. Borbridge .....	Mail bags, labels and repairs for Post Office Department	8 78
R. S. Montgomery .....	Mail bags, labels and rivet seals for do	664 16
Fritchard & Andrews. ....	Mail bag labels for do	1 88
E. Chanteloup.....	Mail lock keys for do	1 00
	Total.....	\$675 82

W. H. SMITHSON,

*Accountant.*

WILLIAM WHITE,

*Deputy Postmaster-General.*

PROVINCE OF ONTARIO.

DETAIL of all payments made for Salaries, &c., in Ontario; showing, in each case, the name of the person, the service or duty performed, and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary.	Night Duty and Mileage.	Total of Classes.	Grand Total.
	CHIEF INSPECTOR'S OFFICE.	% cts.	% cts.	% cts.	% cts.
J. Dewe.....	Chief Inspector.....	2,800 00			
W. E. Bennett.....	Assistant Inspector.....	1,262 50		4,062 50	
122 L. F. A. Maingy.....	1st Class Clerk.....	1,400 00		1,400 00	
A. N. Payne.....	3rd do.....	500 00		500 00	
C. P. Bercard.....	Temporary Clerk, from 1st. February, 1889.....	300 00		300 00	
	Total, Chief Inspector's Office.....				6,262 50
	BARRIE DIVISION.				
D. Stry.....	Post Office Inspector.....	2,200 00			
J. Henderson.....	Assistant Inspector.....	1,400 00		3,400 00	
G. J. Mason.....	2nd Class Clerk.....	1,200 00			
J. Powell.....	do promoted from 3rd Class, 13th February, 1889.....	739 05		1,939 05	
J. Ward.....	3rd do.....	680 00			
T. R. Boys.....	do.....	520 00		1,200 00	
J. Harris.....	Messenger.....	580 00		580 00	
	Total, Barrie Division.....				7,319 05

RAILWAY MAIL SERVICE.				
A. McCarthy.....	Chief Railway Mail Clerk, suspended from 4th to 10th July, 1888.	1,471 77	3 86	1,475 63
P. Hynes.....	1st Class Railway Mail Clerk (less fine).	959 00	158 95	
W. Stokes.....	do	880 00	154 64	
J. H. Bennett.....	do promoted from 2nd Class, 1st October, 1888.	840 00	158 21	3,150 80
M. E. Kelly.....	2nd do	800 00	208 33	
R. Murray.....	do	800 00	187 02	
J. O'Connor.....	do	753 33	169 00	
E. J. Skelly.....	do	753 33	163 27	
T. Martin.....	do	753 33	157 99	
T. Mason.....	do	720 00	209 93	
T. Dunn.....	do	720 00	117 21	
M. Maloney.....	do	720 00	183 50	
J. Legate.....	do	720 00	145 57	
T. J. Atkins.....	do promoted from 3rd Class, 1st December, 1888.	636 66		8,918 56
J. D. Cunningham.....	3rd do	560 00	163 81	
P. J. Duffy.....	do	560 00	185 80	
W. Leadley.....	do	520 00	166 26	
W. H. Swan.....	do	520 00	171 28	
J. McL. Hartlev.....	do (less fine).	499 00	187 93	
A. C. Mackenzie.....	do from 1st December, '88 (transferred from Toronto Division)	480 00	161 62	
W. J. Meagher.....	do	290 00	102 20	4,567 90
Total, Barrie Railway Mail Service.....		14,956 42	3,156 47	18,112 89
KINGSTON DIVISION				
G. E. Griffin.....	Post Office Inspector.	2,400 00		
A. Jones.....	Assistant Inspector.	1,400 00		3,800 00
J. E. Hopkirk.....	2nd Class Clerk.	1,200 00		
P. H. Macarow.....	do	1,195 00		
J. C. Strange.....	do	912 50		3,307 50
H. F. Wilmot.....	3rd do	400 00		400 00
Total, Kingston Inspector's Office.....				7,507 50

## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Night Duty and Mileage.	Total of Classes.	Grand Total.
		% cts.	% cts.	% cts.	% cts.
KINGSTON DIVISION—RAILWAY MAIL SERVICE.					
H. F. Ketcheson.....	1st Class Railway Mail Clerk, promoted from 2nd Class, 10th April, 1889.	675 99	176 70	852 69	
J. A. Renton.....	do	630 00	130 61		
D. J. Walker.....	do	547 00	163 30		
	promoted from 3rd Class, 10th April, 1889.			1,470 91	
J. Hoyland.....	do	560 00	115 02		
W. J. Doller.....	do	520 00	143 98		
J. R. Sayers.....	do	432 93	131 95		
	absent without leave from 14th to 31st July, 1888; also suspended from 17th February to 31st March, 1889.	513 34	145 56		
M. McKinnon.....	do	480 00	131 24		
A. Gillies.....	do			3,174 02	
		4,359 26	1,138 36		
	Total, Kingston Railway Mail Service.....				5,497 62
LONDON DIVISION.					
R. W. Barker.....	Post Office Inspector.	2,400 00			
C. Fisher.....	Assistant Inspector.	1,600 00		4,000 00	
A. Thomson.....	1st Class Clerk.	1,400 00			
W. Blair.....	do	1,100 00		1,400 00	
F. W. Matthews.....	do	1,050 00			
R. G. Mercer.....	do	800 00		2,150 00	
G. Hampton.....	do	800 00			
J. Johnson.....	do	620 00		2,220 00	
W. G. McKenna.....	Messenger.	382 50		382 50	
	Total, London Inspector's Office.....				10,152 50

RAILWAY MAIL SERVICE.

Chief Railway Mail Clerk		1,500 00	9 72	1,509 72
A. G. McWhinney.....				
1st Class Railway Mail Clerk				
P. Purdon.....	do	960 00	183 71	
J. Wynn.....	do	960 00	173 01	
B. D. D. Rorison.....	do	960 00	158 76	
W. Mathews.....	do	960 00	113 07	
J. G. Wright.....	do	960 00	197 74	
H. Cousins.....	do	960 00	158 99	
T. J. Essex.....	do	960 00	159 82	
W. Mitchell.....	do	960 00	208 63	
W. Edgar.....	do	960 00	136 56	
T. J. O'Meara.....	do	960 00	192 99	11,303 28
2nd				
R. P. Wright.....	do	800 00	199 72	
J. Flynn.....	do	800 00	178 27	
F. A. Gemmill.....	do	800 00	111 51	
J. Mitchell.....	do	800 00	153 82	
J. W. McLaren.....	do	800 00	186 49	
J. J. Doyle.....	do	800 00	170 40	
W. D. Tye.....	do	800 00	169 74	
W. Cousins.....	do	720 00	150 08	
E. O. B. Rogers.....	do	720 00	168 66	
J. L. G. Elliott.....	do	720 00	233 89	
W. A. Cleary.....	do	720 00	103 88	
J. Farrow.....	do	720 00	85 20	
A. F. Coulter.....	do	720 00	182 30	
D. J. McLean.....	do	720 00	227 11	
J. G. L. Dawson.....	do	406 45	99 84	
J. P. Casgrain.....	do	720 00	176 36	
W. G. McMillan.....	do	700 00	191 89	15,261 61
3rd				
H. Elliott.....	do	560 00	159 64	
W. H. Arland.....	do	560 00	129 69	
A. Northwood.....	do	543 32	192 29	
C. McL. Sinclair.....	do	543 32	104 21	
G. W. Young.....	do	543 32	180 74	
W. L. McNeal.....	do	540 00	182 51	
T. W. Crawford.....	do	520 00	177 36	
C. C. Fox.....	do	520 00	149 00	
C. Lee.....	do	501 41	176 01	
R. W. S. Johnson.....	do	506 67	198 15	
J. J. O'Farrell.....	do	520 00	159 88	
W. W. McVicar.....	do	520 00	126 46	8,313 98



DETAIL of all payments for Salaries, &c., in Ontario, made within the Year ended 30th June, 1889.—Continued.

Name.	Service.	Salary. \$ cts.	Night Duty and Mileage. \$ cts.	Total of Classes. \$ cts.	Grand Total. \$ cts.
LONDON DIVISION—RAILWAY MAIL SERVICE—Concluded.					
G. W. Routledge .....	Temporary Railway Mail Clerk, from 8th August, 1888	430 97	73 22		
J. E. Johnson .....	do from 21st May, 1889	54 19	1 00	560 28	
R. Dagg .....	Mail Transfer Agent .....	560 00		560 00	
		30,989 65	6,519 22		37,508 87
Total, London Railway Mail Service .....					
OTTAWA DIVISION.					
T. P. French .....	Post Office Inspector .....	2,400 00			
G. Marsan .....	Assistant Inspector .....	1,237 50			
C. P. LeSueur .....	do promoted from 1st Class, 1st January, 1889 .....	1,500 00.		5,137 50	
J. F. O'Connor .....	1st Class Clerk, promoted from 2nd Class, 1st October, 1888 .....	1,162 50		1,162 50	
D. Moloney .....	2nd do to 30th November (transferred to Stratford Division) .....	458 34			
M. J. Whitty .....	do from 1st October, 1888 (transferred from Ottawa Post Office) .....	725 00		1,183 34	
W. M. Brophy .....	3rd do to 30th September, 1888 (transferred to Ottawa Post Office; also sus- pended from 7th to 15th September, 1888) .....	177 75			
H. Carroll .....	do do .....	760 00		1,847 75	
P. B. Dunne .....	do do .....	440 00			
W. C. Cochran .....	do do .....	470 00			
H. M. Short .....	Temporary Clerk, from 20th December 1888 .....	212 90		212 90	
C. Duggan .....	Messenger .....	435 00		435 00	
	Total, Ottawa Inspector's Office .....				9,978 90

## RAILWAY MAIL SERVICE.

		Acting Chief Railway Mail Clerk.....	1,500 00	4 70	1,504 70
		1st Class Railway Mail Clerk.....			
J. D. Thomson.....		do	960 00	359 64	
E. Gordon.....		do	960 00	520 03	
W. F. Burnham.....		do	960 00	518 12	
G. T. Gorrell.....		do	960 00	392 92	
R. Peden.....		do	905 63	415 93	
J. A. Chevrier.....		(less fine)	959 00	398 91	
D. J. Skelly.....		do	800 00		
F. H. Smith.....		do			9,110 21
		2nd			
J. B. Z. Legendre.....		do	800 00	456 08	
A. Leclair.....		do	800 00	462 73	
P. A. Maingy.....		do	760 00	283 24	
J. B. Gillespie.....		do	720 00	334 96	
C. Plumb.....		do	720 00	359 42	
H. Macdonald.....		do	640 00	400 91	
C. W. Macdonald.....		do	640 00	357 73	
N. F. Elliott.....		do	720 00	428 77	
J. H. P. Brown.....		do	686 66	183 56	
S. Houston.....		do	666 66	399 68	
R. Montgomery.....		do	720 00	414 30	
W. H. Gass.....		do	640 00	410 42	
		3rd			13,005 12
J. Griffith.....		do	520 00	164 56	
J. Eagleson.....		do	520 00	362 06	
J. J. Nevens.....		do	520 00	377 18	
J. J. Lally.....		do	520 00	375 25	
A. H. J. Colburn.....		do	520 00	360 49	
J. E. Hetherington.....		do	520 00	368 18	
T. J. M. Skelly.....		do		7 84	
J. Corcoran.....		do	519 00	222 54	
B. McLaren.....		do	513 34	316 91	
E. H. Hayes.....		do	500 00	147 63	
G. Catellier.....		do	485 51	163 66	
J. G. Armstrong.....		do	480 00	217 87	
S. L. Hollingsworth.....		do	480 00	162 72	
J. Purcell.....		do	430 97	138 60	
		Temporary Railway Mail Clerk, from 1st August, 1888.....	440 00	178 46	9,914 31
H. J. Kenny.....		do			618 46
		Total, Ottawa Railway Mail Service.....	23,486 80	10,666 09	34,152 89

DETAIL of all payments for Salaries, &c., in Ontario, made within the Year ended 30th June, 1889.—Continued.

Name.	Service.	Salary.	Night Duty and Mileage.	Total of Classes.	Grand Total.
	STRATFORD DIVISION.	\$ cts.	% cts.	\$ cts.	\$ cts.
H. G. Hopkirk.....	Post Office Inspector.	2,200 00			
D. Moloney .....	Assistant Inspector, from 1st December, 1888 (transferred from Ottawa Division).....	700 00		2,900 00	
J. Yorick .....	2nd Class Clerk, from 14th May, 1889 (transferred from Railway Mail Service) .....	126 45		126 45	
D. A. Bruce.....	do	550 00			
C. B. Lawrence.....	do	430 00			
W. S. Watson .....	do	410 00			
A. B. Orr .....	Messenger.....	375 00		1,390 00	
	Total, Stratford Inspector's Office .....			375 00	4,791 45
	RAILWAY MAIL SERVICE.				
J. Yorick .....	1st Class Railway Mail Clerk, to 13th May, 1889 (transferred to Inspector's Office).....	833 55	1 00	834 55	
A. Jones .....	do	800 00	180 87		
J. Dundas.....	do	800 00	174 97		
D. B. Kelly .....	do	720 00	158 94		
G. M. Harris.....	do	720 00	202 70	3,757 48	
C. Pierson.....	do	560 00	160 83		
J. J. Golden.....	do	560 00	154 02		
E. J. Freel .....	do	533 32	179 23		
W. J. Ramsay .....	do	520 00	182 17		
W. Richardson.....	do	520 00	181 52		
A. J. Cheyne .....	do	520 00	164 04		
H. F. Dunning .....	do	520 00	207 98		
R. Johnston .....	do	480 00	162 95	5,606 06	
J. McD. McNeill .....	Temporary Railway Mail Clerk, from 21st May, 1889 .....	54 19	6 00	60 28	
	Total, Stratford Railway Mail Service.....	8,141 06	2,117 31		10,258 37

TORONTO DIVISION.							
M. Sweetnam.....	Post Office Inspector.		2,600 00				
G. A. Burnham.....	Assistant Inspector.		1,600 00				4,200 00
W. E. Griffith.....	1st Class Clerk.		1,400 00				1,400 00
G. T. B. Gurnett.....	do		1,200 00				
J. Henry.....	do		1,200 00				
W. Crocker.....	do		1,200 00				
H. W. Smallpiece.....	do		1,000 00				4,600 00
G. B. Sweetnam.....	do		560 00				560 00
J. McKillop.....	Messenger.		580 00				580 00
Total, Toronto Inspector's Office.							11,340 00
RAILWAY MAIL SERVICE.							
C. J. H. Winstanley.....	Chief Railway Mail Clerk.		1,500 00	17 54			1,517 54
H. J. Saulter.....	1st Class Railway Mail Clerk.		960 00	406 74			
J. O. McCormick.....	do		957 50	98 23			
W. O. Bennett.....	do		960 00	190 33			
W. Beatty.....	do		960 00	361 68			
W. C. Ashdown.....	do		960 00	179 99			
F. Tyner.....	do		960 00	370 53			
G. F. Burns.....	do		960 00	201 96			
T. S. Birchall.....	do		960 00	498 22			
L. V. Byrne.....	do		880 00	343 36			
F. O'C. Higgins.....	do	suspended from 24th December, '88, to 23rd January, '89. promoted from 2nd Class, 9th February, 1889.	842 86	372 75			12,433 15
W. Noble.....	do		800 00	324 80			
J. Egan.....	do		800 00	462 79			
A. Thompson.....	do		800 00	183 51			
P. J. Costello.....	do		800 00	351 32			
J. E. McLeod.....	do		800 00	368 47			
A. Findlay.....	do	(less fine).	799 00	352 10			
C. T. Bell.....	do		720 00	189 87			
G. Mathews.....	do		800 00				
A. Beatty.....	do		760 00	252 89			
E. O. Boyle.....	do		720 00	146 75			
W. M. Platt.....	do		720 00	193 52			
W. O'Connor.....	do		720 00	315 39			
W. B. Smith.....	do		720 00	419 36			
J. Little.....	do		720 00	181 03			
G. W. Griffin.....	do	suspended from 19th to 30th April, 1889.	696 00	196 83			

## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Night Duty and Mileage.	Total of Classes.	Grand Total.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.
TORONTO DIVISION—RAILWAY MAIL SERVICE—Continued.					
L. Sewell.....	2nd Class Railway Mail Clerk	800 00	195 65		
J. T. O'Loane.....	do	720 00	362 33		
J. Pringle.....	do	720 00	189 33		
				18,300 94	
F. C. Clarke.....	3rd	560 00	308 59		
W. J. Little.....	do	560 00	312 83		
W. Smellie.....	do	560 00	226 58		
J. T. Mollard.....	do	520 00	181 22		
W. E. Wiley.....	do	520 00	182 22		
M. W. Sloan.....	do	520 00	132 53		
H. P. Thompson.....	do	520 00	116 00		
T. Patterson.....	do	520 00	302 62		
A. McGill.....	do	495 38	104 52		
W. J. Meagher.....	do	200 00	63 28		
T. J. M. Skelly.....	do				
		166 11	43 50	7,115 38	
J. F. Harper.....	Mail Transfer Agent	550 00			
A. Scholes.....	do	580 00			
M. Lawless.....	do	480 00			
M. Sullivan.....	do	600 00			
A. A. Allen.....	Temporary Mail Transfer Agent, from 26th July to 30th November, 1888 (transferred to Toronto Post Office.	139 78		2,349 78	
		32,006 63	9,710 16		41,716 79
	Total, Toronto Railway Mail Service.....				
	Grand Total carried forward.....	171,291 81	33,307 61	204,599 42	204,599 42

## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Total of Classes.	Grand Total.
	Brought forward.....	\$ cts.	\$ cts.	\$ cts.
	BELLEVILLE POST OFFICE.			204,599 42
J. H. Meacham.....	Postmaster.....	1,400 00		
T. Duncan.....	Assistant Postmaster.....	1,100 00		
A. Gillen.....	2nd Class Clerk.....	900 00	2,500 00	
S. W. Glazier.....	3rd do.....	560 00	900 00	
W. B. Walker.....	do.....	560 00		
L. M. Newberry.....	do.....	550 00		
W. J. Finbury.....	do.....	540 00		
J. J. Lynch.....	do.....	500 00		
E. Doyle.....	Temporary Clerk.....	400 00	2,710 00	
	Total, Belleville Post Office.....		400 00	6,510 00
	HAMILTON POST OFFICE.			
H. M. Case.....	Postmaster.....	2,400 00		
H. Colbeck.....	Assistant Postmaster.....	1,800 00		
H. A. Eager.....	1st Class Clerk.....	1,400 00	4,200 00	
T. Burns.....	2nd do.....	1,200 00	1,400 00	
G. H. Bull.....	do.....	1,075 00		
G. Ross.....	do.....	1,075 00		
A. C. Crisp.....	do.....	975 00	4,325 00	
J. S. Mathews.....	3rd do.....	800 00		
E. H. Dunnett.....	do.....	800 00		
B. F. Barber.....	do.....	800 00		
W. R. Ecclestone.....	do.....	800 00		
H. Dinne.....	do.....	133 34		
	to 31st August, 1888 (deceased).....			

DETAIL of all payments for Salaries, &c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Total of Classes.	Grand Total.
	HAMILTON POST OFFICE—Concluded.	\$ cts.	\$ cts.	\$ cts.
P. J. O'Donnell	3rd Class Clerk.	800 00		
R. Fitzgerald	do	750 00		
W. Flynn	do	750 00		
D. D. Campbell	do	680 00		
W. L. Waterman	do	650 00		
H. F. Hill	do	640 00		
J. A. Webber	do	640 00		
H. E. J. Filigrano	do	590 00		
C. Judd	do	580 00		
O. Beatty	do	570 00		
J. R. Morden	do	540 00		
J. J. B. E. Mackay	do	530 00		
J. O. McCulloch	do	530 00		
R. J. Harron	do	480 00		
R. S. Miller	do	480 00		
W. P. McCawley	do	470 00		
S. Smith	do	470 00		
J. H. C. Dempsey	do		14,123 34	
M. L. Cusack	Temporary Clerk, from 3rd September, 1888	331 11		
W. C. Richter	do 6th October, 1888	294 62		
A. M. Hamilton	do 1st May, 1889	66 67		
J. Murphy	Superintendent Letter Carrier	690 00		
T. B. S. Austin	Letter Carrier	600 00		
J. Gore	do	600 00		
J. H. Fearnside	do	600 00		
W. G. Flooks	do	600 00		
H. M. Coates	do	600 00		
C. W. W. Fielding	do	600 00		
J. S. Wilson	do	600 00		
J. Gardner	do	600 00		
R. Stratton	do	600 00		
W. Angus	do	550 00		
W. Rennie	do	507 50		
C. Anstey	do	527 50		
			692 40	

D. C. Dowrie.....	do	to 31st March, 1889; suspended from 16th to 31st March, 1889 (dismissed).....	502 50	
W. Dave.....	do	.....	339 35	
W. H. James.....	do	.....	480 00	
E. Frank.....	do	.....	480 00	
J. W. North.....	do	.....	480 00	
G. Springate.....	do	.....	480 00	
M. Dawson.....	do	.....	480 00	
E. Sevier.....	do	.....	480 00	
W. A. Mundy.....	do	.....	442 50	
W. Strongman.....	do	.....	435 00	
W. Lawrence.....	do	.....	435 00	
J. Charters.....	do	.....	337 50	
J. Philips.....	do	.....	337 50	
G. P. Hanlon.....	do	.....	390 00	
J. R. Thomas.....	do	.....	390 00	
R. M. McDonald.....	do	.....	162 58	
W. Nunn.....	do	from 19th January, 1889.....	360 00	
A. Thomas.....	do	from and Temporary Letter Carrier to 13th February, 1889.....	106 45	
W. McFarland.....	do	from 10th April, 1889, also Temporary from 15th March, 1889.....	15,850 88	
F. Hodd.....	do	.....	210 00	
A. Griffin.....	Temporary Letter Carrier to 31st January, 1889 (deceased).....	.....	600 00	
D. Walsh.....	Messenger.....	.....	412 50	
J. Straus.....	do.....	.....	260 00	
A. Vincent.....	Postmaster, James Street.....	.....	1,012 50	
	Total, Hamilton Post Office.....	.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....	15,850 88	
		.....	210 00	
		.....	600 00	
		.....	412 50	
		.....	260 00	
		.....	1,012 50	
		.....	260 00	
		.....		



## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Total of Classes.	Grand Total.
		\$ cts.	\$ cts.	\$ cts.
KINGSTON POST OFFICE—Concluded.				
G. G. Meagher	Temporary Clerk	400 00	954 00	
A. T. Deacon	do from 27th September, 1888.	554 00		
A. H. Miller	Letter Carrier	600 00	3,410 00	
J. Collins	do	575 00		
R. Levers	do	480 00		
P. J. Howland	do	465 00		
R. Gilmour	do	442 50		
R. Kearns	do	427 50		
W. Neill	do	420 00		
R. Elliott	Temporary Letter Carrier, from 16th July, 1888.	345 48	690 96	
R. E. Genge	do	345 48		
J. Morrissey	Messenger	375 00		
Total, Kingston Post Office.			375 00	15,610 62
LONDON POST OFFICE.				
R. J. C. Dawson	Postmaster.	2,200 00	3,800 00	
J. D. Sherman	Assistant Postmaster	1,600 00		
J. Hunter	2nd Class Clerk	1,200 00	3,487 50	
R. F. Matthews	do	1,200 00		
C. Hevey	do	1,087 50		
C. J. N. Shanly	3rd	800 00		
J. Ward	do	800 00		
A. E. Ashton	do	800 00		
N. McNeil	do	800 00		
L. Lawless	do	720 00		
F. C. Wheeler	do	640 00		
W. Nichols	do (less fine)	719 00		

W. H. Skinner.....	do	(suspended from 1st November, 1888, to 13th March, 1889).	640 00	
J. O'Meara.....	do		404 30	
J. P. Murray.....	do		570 00	
A. Carrothers.....	do		580 00	
F. J. Deviney.....	do		550 00	
J. H. Percival.....	do		520 00	
J. E. Elliott.....	do		400 00	
J. A. Macdonald.....	do		400 00	9,343 30
M. Haystead.....	Superintendent Letter Carrier		760 00	
J. Kennedy.....	Letter Carrier		600 00	
J. Denahy.....	do		600 00	
J. N. Beattie.....	do		600 00	
G. Hilton.....	dh		600 00	
J. A. Sreaton.....	do		600 00	
J. Evans.....	do		600 00	
W. S. Short.....	do		590 00	
J. Ward.....	do		567 50	
F. W. Bermingham.....	do		527 50	
W. P. Burns.....	do	(suspended from 3rd to 17th October, 1888).	490 81	
T. Brennan.....	do		480 00	
P. Phillips.....	do		480 00	
J. Wilson.....	do		480 00	
T. Phair.....	do		480 00	
F. Pontey.....	do		480 00	
R. Walsh.....	do		480 00	
M. J. Matland.....	do		480 00	
John Cushing.....	do		472 50	
W. F. Southcote.....	do		472 50	
James Cushing.....	do		450 00	
J. Nicholson.....	do		442 50	
W. C. Hiscott.....	do		420 00	
J. Wood.....	do		390 00	
C. C. Reed.....	do		390 00	
W. Pate.....	do		360 00	13,293 31
R. Wright.....	Letter Collector		600 00	
R. McNell.....	do		580 00	
M. O'Meara.....	Messenger		600 00	1,180 00
				600 00
				31,704 11
		Total, London Post Office.....		
		OTTAWA POST OFFICE.		
J. A. Gouin.....	Postmaster		2,400 00	
F. Hawken.....	Assistant Postmaster		1,900 00	4,300 00

## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.		Total of Classes.		Grand Total.	
		\$	cts.	\$	cts.	\$	cts.
OTTAWA POST OFFICE—Continued.							
French	1st Class Clerk	1,400	00	1,400	00	1,400	00
E. B. Bates	do	1,200	00				
E. J. O'Connor	do	1,200	00				
C. Shaw	do	1,200	00				
W. H. Pennock	do	1,050	00				
M. J. Whitty	do	237	50				
W. O. Mercer	do	1,050	00				
				5,937	50		
A. A. Smith	do	492	86				
H. O'Neill	do	800	00				
J. H. Bartlett	do	760	00				
N. E. Landriau	do	639	00				
H. Poole	do	800	00				
S. J. Bradbury	do	640	00				
A. York	do	800	00				
E. L. Chevrier	do	610	00				
G. R. MacQueen	do	610	00				
L. Garrett	do	155	00				
A. H. Gallup	do	580	00				
L. E. Noël	do	485	03				
E. H. Mathewman	do	280	00				
F. L. Myers	do	550	00				
J. Binks	do	470	00				
L. M. Farrell	do	470	00				
F. G. Allen	do	470	00				
B. H. Bell	do	450	00				
G. W. Wills	do	440	00				
A. F. A. Chabot	do						
	from 1st August, 1888 (transferred from Winnipeg Post Office ; transferred to Quebec Division)	73	33				
M. D'Arcy	do	420	00				
M. Patrick	do	420	00				
V. Parent	do	440	00				
L. D. Chevrier	do	430	00				
W. A. Bangs	do	410	00				
M. A. Coughlin	do	400	00				

W. M. Brophy.....	do	from 1st October, 1888 (transferred from Ottawa Division ; suspended from 4th to 12th December, 1888 ; also from 1st March to 30th April, 1889).....	393 38	13,488 60
Temporary Clerk.				
A. E. Smith.....	do	to 31st July, 1888 (resigned).....	400 00	
C. Landrau.....	do	.....	33 33	
O. E. Traversy.....	do	.....	400 00	
S. A. Webber.....	do	.....	400 00	
J. R. Clewes.....	do	.....	400 00	
A. H. Powell.....	do	.....	400 00	
J. P. Chilton.....	do	.....	400 00	
L. A. Gosselin.....	do	.....	400 00	
M. T. Duhanel.....	do	.....	400 00	
E. Faulkner.....	do	(less fine).....	400 00	
S. H. Bartlett.....	do	.....	329 00	
W. S. Warwicker.....	do	.....	400 00	
P. Archambault.....	do	.....	400 00	
L. C. Fraser.....	do	.....	400 00	
L. Corbell.....	do	from 9th July, 1888.....	391 40	
C. P. Doughty.....	do	from 10th October, 1888 (less fines).....	287 71	
E. M. Webber.....	do	from 13th December, 1888.....	220 42	
A. Coleman.....	do	from 25th February, 1889.....	138 10	
M. L. Blanchet.....	do	from 23rd March, 1889.....	108 68	
M. St. Denis.....	do	from 10th April, 1889.....	90 00	6,469 64
Superintendent Letter Carrier.				
F. S. Warwicker.....	Letter Carrier	.....	800 00	
J. Brown.....	do	to 28th February, 1889 (deceased).....	600 00	
P. Larue.....	do	to 9th April, 1889 (suspended from 7th July, to 10th September, 1888 ; services dispensed with).....	400 00	
M. Dolan.....	do	.....	358 01	
P. Robert.....	do	(less fine).....	600 00	
A. Dupuis.....	do	.....	599 00	
F. J. George.....	do	.....	600 00	
T. Cuddie.....	do	.....	550 00	
W. Lamb.....	do	.....	495 00	
M. J. Egan.....	do	.....	480 00	
J. N. Larue.....	do	to 30th November, 1888 (deceased).....	200 00	
J. T. Bedard.....	do	.....	480 00	
M. Fagan.....	do	.....	472 50	
N. Marion.....	do	to 31st December, 1888 (less fine ; services dispensed with).....	224 38	
H. H. Duggan.....	do	.....	442 50	
E. T. Edwards.....	do	.....	435 00	
R. W. Fair.....	do	.....	420 00	
W. H. Murphy.....	do	(less fine).....	389 00	
F. X. Giroux.....	do	.....	390 00	
J. O. Noël.....	do	.....	375 00	
J. C. Bell.....	do	.....	390 00	
J. J. Fair.....	do	(less fine).....	366 50	
C. Cooch.....	do	.....	360 00	
H. Chamberlain.....	do	from and Temporary to 9th February, 1889.....	360 00	11,281 89
F. W. Roeske.....	do	.....		

## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary. \$ cts.	Total of Classes. \$ cts.	Grand Total. \$ cts.
OTTAWA POST OFFICE—Continued.				
F. A. Schultz.	Temporary Letter Carrier.	360 00		
O. Legault.	do	360 00		
E. W. Guines.	do	18 38		
J. Hayes.	do	330 00		
C. Chaput.	do	212 00		
W. J. Usher.	do	187 74		
D. Charlebois.	do	122 14		
J. McCallum.	do	78 00		
H. Ketchenan.	do	78 00	1,746 26	
W. D'Arcy.	Letter Collector	600 00		
W. Goodwin.	do	600 00	1,200 00	
H. Duggan.	Messenger.	600 00		
T. A. Pirrie.	do	420 00		
R. McElligott.	Temporary Messenger, from 28th January, 1889.	153 87	1,020 00	
	Total, Ottawa Post Office.		153 87	46,997 76
TORONTO POST OFFICE.				
T. C. Patteson.	Postmaster	3,000 00		
J. Carruthers.	Assistant Postmaster.	2,000 00	5,000 00	
J. H. Davis.	1st Class Clerk	1,400 00		
A. Cooper.	do	1,200 00		
J. Moerschfelder.	do	1,500 00		
A. G. Thompson.	do	1,200 00		
R. W. Riddell.	do	1,200 00		
A. Harstone.	2nd Class Clerk	1,200 00		
H. F. Falkner.	do	1,200 00		
W. Leaden.	do	1,200 00	6,500 00	

B. M. Armstrong	do	1,200 00
J. Monaghan	do	1,200 00
B. Langley	do	1,200 00
B. Bascom	do	1,035 48
R. E. Chadd	do	1,200 00
A. Beatty	do	1,100 00
R. Hassard	do	1,100 00
A. T. Middleton	do	1,050 00
W. Macpherson	do	1,000 00
J. Gorman	3rd Class Clerk	800 00
A. Curran	do	800 00
W. H. Douglas	do	800 00
J. Dunbar	do	756 56
H. S. Allen	do	800 00
J. Callaghan	do	800 00
J. H. Scott	do	694 63
H. Boulter	do	800 00
W. Bonnick	do	800 00
R. Thompson	do	750 00
R. A. Aymong	do	700 00
G. A. Thomas	do	680 00
M. E. Hynes	do	670 00
J. Wright	do	640 00
W. J. Newall	do	640 00
J. R. Fraser	do	640 00
J. Atkins	do	640 00
A. E. Beatty	do	640 00
W. E. Lemon	do	600 00
J. Grandfield	do	598 39
J. Kirkpatrick	do	900 00
M. Macdonald	do	500 00
M. Boyd	do	500 00
R. A. Pridham	do	590 00
W. Kiddle	do	590 00
A. McIntyre	do	790 00
J. Rutherford	do	590 00
R. Pridham	do	800 00
J. S. Boddy	do	580 00
C. E. Smith	do	560 00
R. F. Durham	do	560 00
H. A. Dwyer	do	560 00
J. R. Briggs	do	560 00
W. Sparks	do	560 00
E. Spencer	do	560 00
W. A. Hynes	do	540 00
T. Gill	do	530 00
J. A. Whiteside	do	520 00
J. Stoddart	do	720 00
J. L. Watkins	do	720 00

13,685 48



<i>J. H. Weatherbee.</i>	600 00
<i>G. Yates</i>	600 00
<i>J. Williams</i>	600 00
<i>J. Stewart</i>	600 00
<i>W. Sargent</i>	600 00
<i>C. N. Moore</i>	600 00
<i>C. Culross</i>	600 00
<i>J. R. Cuthbertson</i>	600 00
<i>E. Murphy</i>	530 00
<i>T. Beale</i>	582 50
<i>J. Marks</i>	600 00
<i>J. Crawford</i>	600 00
<i>T. Birney</i>	575 00
<i>R. Hodgins</i>	567 50
<i>R. Jamieson</i>	566 01
<i>J. Askin</i>	556 96
<i>J. Gordon</i>	550 00
<i>W. W. Kimber</i>	535 00
<i>R. Gardiner</i>	527 50
<i>D. Flack</i>	527 50
<i>R. Durstan</i>	487 50
<i>W. S. Parry</i>	487 50
<i>A. C. Jackson</i>	480 00
<i>R. Loudon</i>	480 00
<i>R. Kirkpatrick</i>	480 00
<i>C. Kennedy</i>	480 00
<i>B. Bowell</i>	480 00
<i>J. H. Watson</i>	480 00
<i>F. Kirk</i>	480 00
<i>W. H. Langstone</i>	480 00
<i>C. E. Swait</i>	480 00
<i>S. Reid</i>	480 00
<i>A. H. Meadows</i>	480 00
<i>W. R. Woodcock</i>	480 00
<i>T. Haycock</i>	480 00
<i>W. J. Platt</i>	472 50
<i>G. Ellis</i>	450 00
<i>E. Meadows</i>	450 00
<i>J. Butler</i>	450 00
<i>T. Smith</i>	300 00
<i>H. R. Atkinson</i>	308 47
<i>R. Weir</i>	450 00
<i>W. C. McNair</i>	450 00
<i>Theo. Smith</i>	450 00
<i>J. Reid</i>	437 50
<i>A. McKenzie</i>	465 00
<i>H. T. King</i>	465 00
<i>A. McMorrie</i>	450 00
<i>N. A. Goad</i>	435 00
<i>J. A. Ingram</i>	450 00

(less fine)  
(suspended from 6th to 12th March, 1889).

to 28th February, 1889 (resigned).  
to 7th March, 1889 (dismissed)



## DETAIL of all payments for Salaries, &amp;c., in Ontario, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Total of Classes.	Grand Total.
		\$ cts.	\$ cts.	\$ cts.
TORONTO POST OFFICE—Concluded.				
W. J. Mankey.....	Letter Carrier.....	457 50		
G. Hurst.....	do.....	427 50		
W. Cummins.....	do.....	450 00		
F. F. Hyatt.....	do.....	442 50		
J. Rodgers.....	do.....	427 50		
H. R. Allen.....	do.....	427 50		
J. Pretty.....	do.....	435 00		
H. A. Ashmead.....	do.....	420 00		
R. Mitchell.....	do.....	420 00		
J. I. Knowlton.....	do.....	412 50		
J. Wood.....	do.....	405 00		
R. A. Grainger.....	do.....	405 00		
B. Spicer.....	do.....	130 00		
J. H. Spence.....	do.....	382 50		
R. H. McGinnis.....	do.....	390 00		
F. Richards.....	do.....	382 50		
W. E. Tyner.....	do.....	382 50		
J. W. Adam.....	do.....	340 64		
W. D. Andrews.....	do.....	338 70		
J. A. Pope.....	do.....	210 00		
R. H. Cox.....	do.....	360 00		
W. Wiggins.....	do.....	353 00		
A. A. Weir.....	do.....	282 00		
A. A. Allen.....	do.....	262 25		
W. R. Ward.....	do.....	204 19		
W. T. Rogers.....	do.....			
J. S. Courtney.....	do.....			
D. B. Barnhart.....	do.....			
G. Rodgers.....	do.....			
T. R. Stanley.....	do.....			
F. S. Rutland.....	Temporary Letter Carrier.....	360 00		
E. E. Knox.....	do.....	360 00		
J. Hardy.....	do.....	360 00		
C. J. Saunders.....	do.....	204 19		
			39,398 42	

W. Burns.....	do	from 23rd March, 1889 ; also from 17th December, 1888, to 16th January, 1889 ; and from 20th February to 19th March, 1889	158 71	
H. Lettau.....	do	do	158 71	
W. F. Stevens.....	do	do	158 71	
T. C. Sewell.....	do	do	95 80	
T. Quinn.....	do	from 26th March, 1889.	95 80	
W. J. Hayward.....	do	do	95 80	
J. H. Smith.....	do	29th do	92 90	
J. Shea.....	do	30th do	91 93	
H. E. Richardson.....	do	1st April, 1889.	90 00	
R. Middleton.....	do	do	90 00	
E. Stewart.....	do	2nd do	89 00	
J. S. Clarke.....	do	15th do	76 00	
J. G. Lackey.....	do	do	76 00	
J. Lewis.....	do	22nd May, 1889.	39 67	
J. E. Jeffery.....	do	23rd do	38 70	
J. A. Bailey.....	do	do	38 70	
F. Lane.....	do	17th December, 1888, to 16th January, 1889.	30 00	
A. H. Gordon.....	do	do	30 00	
H. Norton.....	do	do	30 00	
G. Hubbard.....	do	do	30 00	2,890 62
R. Kirk.....	Porter.		580 00	
J. Parrett.....	do		480 00	
R. H. J. Hutty.....	do		480 00	
T. B. Armstrong.....	do	from, and temporary to, 10th April, 1889 ; also Temporary Letter Carrier, to 31st October, 1888	360 00	1,900 00
J. Wilson.....	Temporary Porter, from 5th November, 1888		236 00	236 00
W. J. Woodman.....	Temporary Messenger, from 17th January, 1889 ; also Acting Temporary Clerk, from 17th December, 1888, to 16th January, 1889.		197 85	197 85
J. W. Reynolds.....	Caretaker, to 31st December, 1888 (deceased).		290 00	290 00
C. R. Bickley.....	Temporary Caretaker, from, and Temporary Letter Carrier to 31st October, 1888		360 00	360 00
BRANCH POST OFFICES.				
T. Johnston.....	Postmaster—Bathurst Street.		360 00	
E. Newton.....	do Blecker do		240 00	
A. Jeffrey.....	do Carlton do		360 00	
A. Hudgn.....	do Dundas do		240 00	
J. L. Bird.....	do Peter do	from 8th May, 1888.	275 48	
W. Price.....	do Queen do	East	258 33	
J. Reading.....	do Spadina Avenue.....		290 00	2,023 81
Total, Toronto Post Office.				109,107 19

DETAIL of all payments for Salaries, &c., in Ontario, made within the Year ended 30th June, 1889—*Concluded.*

Name.	Service.	Salary.	Total of Classes.	Grand Total.
	WINDSOR POST OFFICE.	\$ cts.	% cts.	% cts.
A. Wigle.....	Postmaster.....	1,400 00		
F. X. Meloche.....	Assistant Postmaster.....	1,100 00	2,500 00	
W. A. Conway.....	2nd Class Clerk.....	1,050 00	1,050 00	
E. O'Connor.....	3rd do.....	800 00		
E. R. Wagner.....	do.....	670 00		
M. Wagner.....	do.....	669 00		
M. W. Nesbitt.....	(less fine).....	640 00		
A. Ruthven.....	do.....	640 00		
P. J. McHugh.....	do.....	600 00		
C. Benglet.....	do.....	600 00		
P. Egan.....	do.....	650 00		
P. Belleperche.....	(less fines).....	516 11		
J. F. Askin.....	do.....	400 00	6,185 11	
W. Rockford.....	Temporary Clerk (less fine).....	399 00	399 00	
R. Mitchell.....	Porter.....	480 00		
J. Jeffers.....	Messenger.....	480 00	480 00	
	Total, Windsor Post Office.....		480 00	11,094 11
	Balance of Salaries remitted by cheque to Postmasters other than above; being the excess of their salaries over the amount of revenue collected by them to 30th June, 1888.....			5,054 11
	Less—Proportion of Salaries transferred to Quebec— Of Ottawa Inspector, Staff and Railway Mail Clerks.....			472,751 44
	Total.....			3,983 53
				\$468,767 91

W. H. SMITHSON,  
Accountant.WILLIAM WHITE,  
Deputy Postmaster-General.

# PROVINCE OF QUEBEC.

DETAIL of all payments made for Salaries, &c., in Quebec; showing, in each case, the name of the person, the service or duty performed, and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary.		Night Duty and Mileage.		Total of Classes.		Grand Total.	
		cts.	%	cts.	%	cts.	%	cts.	%
MONTREAL DIVISION.									
E. F. King.....	Post Office Inspector	2,600	00						
D. Nelligan.....	Assistant Inspector	1,400	00						
J. E. Gervais.....	do	1,200	00			5,200	00		
F. J. Logie.....	2nd Class Clerk	1,200	00						
J. A. Madore.....	do	1,100	00						
J. F. Pelletier.....	do	900	00			3,200	00		
M. Kearney.....	3rd do (less fine)	793	55						
A. Renaud.....	do (including arrears; less fine)	431	65						
O. C. Bass.....	Temporary Clerk, from 22nd August, 1888, to 31st January, 1889 (resigned).	177	42			1,225	20		
W. J. Gamble.....	do	129	04						
H. Lacken.....	Messenger	430	00			306	46		
Total, Montreal Inspector's Office						430	00		
								10,361	66
RAILWAY MAIL SERVICE.									
F. Briegel.....	Chief Railway Mail Clerk	1,500	00			10	57		
A. Wamsley.....	1st Class Railway Mail Clerk.	960	00			443	19		
G. Jones.....	do	960	00			102	02		
A. Denis.....	do	960	00			319	16		
A. Menzies.....	do	960	00			370	48		
A. Lachapelle.....	do	960	00			325	74		
N. McLellan.....	do	960	00			147	28		
A. Somerville.....	do	960	00			317	47		
J. D. Anderson.....	do	960	00			133	04		
D. Fairman.....	do	960	00			428	76		
						1,510	57		

## DETAIL of all payments for Salaries, &amp;c., in Quebec, made within the Year ended 30th June, 1889.—Continued.

Name.	Service.	Salary.		Night Duty and Mileage.		Total of Classes.		Grand Total.	
		\$	cts.	\$	cts.	\$	cts.	\$	cts.
MONTREAL DIVISION—RAILWAY MAIL SERVICE—Concluded.									
C. Beatty	1st Class Railway Mail Clerk.								
H. E. Channell	do	960	00	90	21				
J. Murphy	do	1,000	00	58	47				
		960	00	311	72				
						14,607	54		
E. Lefebvre	2nd	800	00	283	41				
H. D. Filion	do	800	00	365	95				
C. Hayden	do	800	00	360	47				
C. Beaudoin	do	800	00	153	78				
E. Dorion	do	800	00	286	21				
H. G. Goodfellow	do	800	00	344	04				
L. S. Belque	do	800	00	229	83				
J. L. Viger	(suspended from 20th to 26th August, 1888)	784	94	338	31				
W. H. O'Regan	do	800	00	133	14				
L. C. Crevier	do	800	00	211	94				
A. Armstrong	do	800	00	381	29				
G. R. Dewar	do	800	00	152	15				
J. P. Hall	do	806	66	152	08				
D. T. Frost	(including arrears)	773	33	354	85				
J. E. McKenzie	to 30th November, 1888; transferred to Three Rivers Division								
	do	300	00	50	90				
J. V. Genest	do	300	00	57	32				
J. B. Guèvremont	do	740	00	135	50				
E. L. Smith	do	718	00	116	74				
W. N. Peters	(less fine)	720	00	161	90				
F. Tuck	do	720	00	197	65				
A. J. McRobie	do	720	00	348	31				
E. R. H. Brooks	(less fine)	648	00	112	85				
A. H. Evans	do	720	00	120	96				
W. E. C. Jones	do	640	00	245	04				
J. Ford	do	720	00	351	49				
W. Murphy	(less fine)	639	00	337	33				
C. Chavot	do	640	00	187	35				
J. L. French	(promoted from 3rd Class, 1st October, 1888)	610	00	134	67				
								26,305	39
F. W. Webb	3rd	560	00	211	95				
C. F. Whitcher	do	560	00	60	46				

E. W. Hay	do	480 00	178 80	3,127 75
J. M. Hall	do	510 00	136 68	
S. Gervais	do	336 66	93 20	
	to 28th February, 1889 (transferred to Three Rivers Division)			
G. W. Lawrence	Temporary Railway Mail Clerk, from 15th March, 1889	141 93	26 54	168 47
C. Chase	Mail Transfer Agent	550 00		550 00
L. O. Gariepy	Temporary Mail Transfer Agent	400 00		
S. Galbraith	do	115 05		515 05
		36,713 57	10,071 20	
	Total, Montreal Railway Mail Service.			46,784 77
QUEBEC DIVISION.				
A. Bolduc	Post Office Inspector	2,000 00		
J. L. Ancil	Assistant Inspector	1,400 00		3,400 00
O. Fréchette	2nd Class Clerk	1,200 00		
C. Vohl	do	1,200 00		
J. E. Carrier	do	400 00		2,800 00
	to 31st December, 1888 (transferred to Railway Mail Service)			
J. B. Caonette	3rd	800 00		
L. J. H. Larue	do	530 00		
L. E. Simard	do	430 00		
J. Bouffard	do	400 00		2,160 00
A. Raymond	Temporary Messenger	360 00		360 00
	Total, Quebec Inspector's Office.			8,720 00
RAILWAY MAIL SERVICE.				
E. Blondeau	Acting Chief Railway Mail Clerk	1,500 00		1,500 00
J. Deslauriers	1st Class Railway Mail Clerk	960 00	185 30	
G. Lapointe	do	960 00	252 00	
O. Talbot	do	960 00	364 02	
T. Gaudry	do	960 00	393 48	
H. J. Kimlin	do	960 00	380 84	6,375 64
D. Blondeau	2nd	800 00	161 78	
L. H. Garneau	do	533 34	167 56	
	to 31st March, 1889 (transferred to Quebec Post Office; also suspended from 26th February to 26th March, '89)			

## DETAIL of all payments for Salaries, &amp;c., in Quebec, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.	Night Duty and Mileage.	Total of Classes.	Grand Total.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.
QUEBEC DIVISION—RAILWAY MAIL SERVICE—Continued.					
J. O. Pageau	2nd Class Railway Mail Clerk.	800 00	140 33		
R. G. Bourget	do	800 00	310 16		
J. E. Roy	do	800 00	314 09		
L. Furois	do	800 00	386 06		
F. X. Labbé	do	800 00	344 77		
G. Evanturel	do	333 34	12 29		
L. H. Hudon	to 30th Nov., 1888 (transferred to Quebec Post Office).	746 66	202 13		
D. C. Dagueau	do	746 66	228 33		
A. C. Miquelon	do	720 00	128 55		
C. Bedard	do	720 00	150 47		
A. Beaudry	do				
	to 30th November, 1888; transferred to Three Rivers Division (less fine).	332 34	46 84		
C. A. Méthot	do	300 00	67 18		
M. P. Laberge	do	673 33	211 69		
A. Blondeau	do	640 00	197 68		
S. T. Green	do	640 00	288 69		
J. E. Carrier	do	400 00		14,944 27	
	from 1st Jan., 1889 (transferred from Inspector's Office).				
N. Dorion	do	520 00	250 14		
J. Nolet	do	496 67	188 04		
A. Routhier	do	480 00	182 82		
U. Gauvreau	do	480 00	185 62		
A. F. A. Chabot	do	330 00	60 66		
P. J. Jobidon	do				
F. O'Dowd	do	217 78	88 86		
	Post Office; suspended from 1st to 14th June, 1889).	125 00	19 70	3,625 29	
	from 1st April, 1889 (transferred from Quebec Post Office)				
L. P. Thibault	Mail Transfer Agent.	592 50	67 30	659 80	
		21,127 62	5,977 38		
Total, Quebec Railway Mail Service.					27,105 00
THREE RIVERS DIVISION.					
G. A. Bourgeois	Post Office Inspector.	2,000 00			

[illegible]



DETAIL of all payments for Salaries, &c., in Quebec, made within the Year ended 30th June, 1889—*Continued.*

Name.	Service.	Salary.	Total of Classes.	Grand Total.
	<i>Brought forward</i>	\$ cts.	\$ cts.	\$ cts.
	MONTREAL POST OFFICE.			100,780 97
G. Lamothe.....	Postmaster.....	4,000 00		
M. Emery.....	Assistant Postmaster.....	2,000 00		
	1st Class Clerk.....	1,500 00	6,000 00	
H. A. Bourret.....	do	1,500 00		
H. Huddell.....	do	1,500 00		
J. McKeon.....	do	1,500 00		
V. Baillargeon.....	do	1,450 00		
J. L. Palmer.....	do	1,500 00		
T. F. Larseneur.....	do	1,400 00		
J. Senez.....	do	1,300 00		
			10,150 00	
T. Pridham.....	2nd do	1,200 00		
E. Mayer.....	do	1,200 00		
J. C. Sims.....	do	1,200 00		
O. Clement.....	do	1,200 00		
A. Loftus.....	do	1,200 00		
A. de Restaing.....	do	1,200 00		
T. Desnoyers.....	do	1,200 00		
H. Goyette.....	do	1,200 00		
J. B. A. Daoust.....	do	1,112 50		
G. Lefebvre.....	do	1,100 00		
T. Harding.....	do	1,050 00		
R. Duncan.....	do	1,050 00		
W. Hayden.....	do	1,050 00		
A. Larose.....	do	1,050 00		
H. D. Gaudry.....	do	1,050 00		
G. Beaudoin.....	do	975 00		
J. Chase.....	do	975 00		
U. Rondeau.....	do	975 00		
			20,137 50	
R. J. Arless.....	3rd do	795 70		
A. E. Auger.....	do	840 00		
J. Filiatreault.....	do	800 00		
A. A. Doray.....	do	800 00		

J. E. Renaud.....	do	800 00
L. Lefebvre.....	do	800 00
E. Chagnon.....	do	800 00
C. A. T. Leduc.....	do	739 50
J. Thompson.....	do	800 00
G. Contée.....	do	800 00
A. Lord.....	do	800 00
C. Lefebvre.....	do	800 00
B. Conlon.....	do	799 00
J. Thiméus.....	do	800 00
R. T. Daniels.....	do	800 00
W. Johnson.....	do	333 33
E. H. Oullette.....	do	740 00
E. H. Forbes.....	do	750 00
W. J. McElroy.....	do	670 00
T. H. Lapointe.....	do	670 00
A. O. Larin.....	do	640 00
J. P. Whelan.....	do	640 00
D. Tansey.....	do	640 00
P. O'Neill.....	do	610 00
E. Joliceur.....	do	250 00
L. D. E. Mayer.....	do	600 00
C. Larivière.....	do	600 00
J. Beresford.....	do	590 00
J. E. Guillemette.....	do	580 00
D. O'Donaghue.....	do	580 00
F. Plouffe.....	do	580 00
O. Lorange.....	do	570 00
H. Chandler.....	do	570 00
A. D. McIntosh.....	do	570 00
E. A. Lamoureux.....	do	570 00
A. E. Lamoureux.....	do	570 00
T. A. Groux.....	do	560 00
A. Sauriol.....	do	559 00
W. Barbe.....	do	550 00
U. Clermont.....	do	550 00
A. B. Coté.....	do	550 00
G. A. Carpenter.....	do	540 00
W. J. Crowe.....	do	540 00
A. L. Grondin.....	do	540 00
C. Florence.....	do	538 25
T. Brophy.....	do	540 00
E. Brazeau.....	do	493 84
P. T. H. Ermanger.....	do	530 00
T. Lamanque.....	do	530 00
A. Morin.....	do	520 00
J. Coffey.....	do	480 00
J. J. Durack.....	do	510 00
J. B. A. Lalonde.....	do	480 00
J. Cunningham.....	do	478 50

DETAIL of all payments for Salaries, &c., in Quebec, made within the Year ended 30th June, 1889.—*Continued.*

Name.	Service.	Salary.	Total of Classes.	Grand Total.
		% cts.	% cts.	% cts.
MONTREAL POST OFFICE.—Continued.				
A. Masé	3rd Class Clerk	470 00		
T. J. Crowe	do	480 00		
L. D. A. R. de Cotret.	do	490 00		
G. Clarke.	do	460 00		
E. C. Dowd	do	640 00		
E. Barcelo	do	440 00		
J. C. D'Amour	do	440 00		
J. E. Bourgeau.	do	430 00		
O. Dumont	do	430 00		
R. E. Bourret.	do	420 00		
J. W. Bathurst	do	600 00		
A. Dufresne	do	600 00		
T. Callaghan.	do	502 50		
M. Lepine.	do	472 50		
F. S. Dagenais.	do	480 00		
A. L. Auger	do	138 45		
	from, and Letter Carrier to, 30th September, 1888			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			
	do			

153

DETAIL of all payments for Salaries, &c., in Quebec, made within the Year ended 30th June, 1889.—*Continued.*

Name.	Service.	Salary.	Total of Classes.	Grand Total.
		\$ cts.	\$ cts.	\$ cts.
MONTREAL POST OFFICE—Concluded.				
J. Lemieux.....	3rd Class Clerks.....	360 00	34,001 23	
A. Gauthier.....	do.....	360 00		
J. Heaney.....	from 16th October, 1888.....	360 00		
F. X. Brault.....	do.....	255 48		
A. Radakir.....	from 25th do.....	246 77		
J. Miraglia.....	from 18th January, 1889.....	163 55		
	from 10th April, 1889; also temporary from 1st March, 1889.....	120 00		
J. Paiement.....	Temporary Letter Carrier.....	360 00		
L. J. St. Jean.....	do.....	354 34		
M. Villeneuve.....	do.....	360 00		
T. Boismenu.....	do.....	360 00		
A. Cadotte.....	do.....	360 00		
G. Rosa.....	to 12th April, 1889, dismissed.....	282 00		
F. Vincent.....	do.....	360 00		
M. Brunel.....	do.....	360 00		
O. Daoust.....	from 25th July, 1888.....	336 77		
R. Laprairie.....	do.....	255 48		
J. Mathieu.....	from 16th October, 1888.....	244 84		
J. H. Lepine.....	do.....	42 84		
T. Fenauhty.....	from 27th May, 1889; also temporary from 24th to 27th December, 1888.....	42 84		
D. McLennan.....	do.....	34 84		
M. F. Johnson.....	do.....	34 84		
N. Mayer.....	do.....	8 00		
A. Payfer.....	from 24th to 27th December, 1888.....	4 00		
A. Short.....	do.....	8 00		
R. Dalton.....	do.....	8 00		
A. Mercier.....	do.....	8 00		
L. B. Dumesnil.....	do.....	8 00		
J. Crowe.....	do.....	8 00		
P. Harrigan.....	do.....	8 00		
J. Gorman.....	do.....	8 00		
H. Thompson.....	do.....	8 00		
J. Collins.....	Stampers.....	600 00	3,864 79	
W. H. Thompson.....	Temporary Porter, from 3rd April, 1889.....	88 00	600 00	
				88 00

J. Maher	Messenger	600 00	
J. Bennett	do	480 00	
L. Renois	do	600 00	1,680 00
BRANCH POST OFFICES.			
D. Lepage	Postmaster, Ontario Street, East, from 1st January, 1889	150 00	
E. M. Renouf	do St. Catharine Street, West, from 1st January, 1889	150 00	
Total, Montreal Post Office.			300 00
QUEBEC POST OFFICE.			
A. G. Tourangeau	Postmaster	2,000 00	
J. E. Bolduc	Assistant Postmaster	1,400 00	
C. Chamberland	2nd Class Clerk	1,200 00	
A. W. LeBel	do	1,200 00	
W. Handford	do	1,200 00	
L. A. Rochette	do	1,100 00	
Total, Quebec Post Office.			3,400 00
MONTREAL POST OFFICE.			
W. White	3rd Class Clerk (less fine)	737 85	
Z. Gagnon	do	800 00	
F. Gaboury	do	800 00	
M. Myler	do	744 08	
U. Vezina	do (suspended from 15th December, 1888, to 7th January, 1889; less fine)	799 00	
G. Evanturel	do (less fine)	466 66	
J. E. Turner	do from 1st December, 1888 (transferred from Quebec Division)	760 00	
O. Planondon	do	710 00	
P. E. Lane	do	690 00	
L. H. Garneau	do from 1st April, 1889 (transferred from Quebec Division)	200 00	
E. Morissette	do	640 00	
L. L'Heureux	do	640 00	
J. M. E. Genest	do	399 00	
W. H. A. Eckhardt	do from 1st November, 1888 (transferred from Militia Department; less fine)	570 00	
J. J. Battle	do (less fine)	539 00	
M. Pelletier	do	620 00	
F. O'Dowd	do to 31st March, 1889 (transferred to Quebec Division)	375 00	
P. Jolidon	do to 30th November, 1888	166 66	
W. Batterton	do (less fine)	419 50	
Total, Montreal Post Office.			11,136 75
J. N. A. Gingras	Temporary Clerk	400 00	
C. Audet	do	400 00	
T. M. Maguire	do to 31st October, 1888 (transferred to Militia Department)	133 33	
N. Giasson	Letter Carrier	600 00	
T. Reynar	do	600 00	
Total, Montreal Post Office.			933 33

DETAIL of all payments for Salaries, &c., in Quebec, made within the Year ended 30th June, 1889—*Concluded.*

Name.	Service.	Salary. \$ cts.	Total of Classes. \$ cts.	Grand Total. \$ cts.
QUEBEC POST OFFICE— <i>Concluded.</i>				
R. Wilkinson.....	Letter Carrier.....	600 00		
V. Houle.....	do.....	600 00		
R. Pelletier.....	do.....	600 00		
H. P. Kelly.....	do.....	600 00		
L. Guay.....	do.....	600 00		
J. P. T. Gingras.....	do.....	600 00		
P. N. Gauvin.....	do.....	600 00		
J. Desroches.....	do.....	480 00		
E. Duhaut.....	do.....	580 00		
D. Mercier.....	do.....	480 00		
A. Pelletier.....	do.....	480 00		
N. U. Joannet.....	do.....	480 00		
J. A. Boulet.....	(less fine).....	479 00		
F. X. Ouellet.....	do.....	480 00		
R. Blackburn.....	do.....	465 00		
A. Samson.....	do.....	420 00		
C. N. Langlois.....	do.....	420 00		
A. E. Gingras.....	do.....	382 50	10,426 50	
E. Emond.....	Temporary Letter Carrier (less fine).....	352 26		
L. H. Beaulé.....	do.....	157 74		
J. Everts.....	Messenger.....	580 00	510 00	
T. Denechaud.....	do (office keeper).....	860 00	1,440 00	
	Total, Quebec Post Office.....			32,546 58
	Balance of salaries remitted by cheque to Postmasters other than above; being the excess of their salaries over the amount of revenue collected by them to 30th June, 1888.....			1,130 66
	Proportion of salaries transferred from Ontario— Of Ottawa Inspector, Staff and Railway Mail Clerks.....			3,983 53
	Total.....			\$257,528 87

W. H. SMITHSON,  
Accountant.WILLIAM WHITE,  
Deputy Postmaster-General.

PROVINCE OF NOVA SCOTIA.

DETAIL of all payments made for Salaries, &c., in Nova Scotia ; showing, in each case, the name of the person, the service or duty performed, and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary.	Night Duty and Milage.	Total of Classes.	Grand Total.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.
NOVA SCOTIA DIVISION.					
C. J. Macdonald.....	Post Office Inspector.....	2,200 00			
J. D. Story.....	Assistant Inspector.....	1,400 00		3,600 00	
D. Stewart.....	1st Class Clerk.....	1,200 00		1,200 00	
T. E. Davison.....	2nd do.....	1,100 00			
S. J. R. Siroom.....	do.....	950 00		2,050 00	
A. Costley.....	3rd do.....	640 00			
W. W. Page.....	do.....	480 00			
T. J. Curren.....	do from 1st June, 1889 (transferred from Halifax Post Office).....	46 66		1,166 66	
S. Howe.....	Temporary Clerk.....	600 00			
W. E. F. Hennessy.....	do.....	400 00		1,000 00	
M. H. Meagher.....	Messenger to 31st October, 1888 (deceased).....	173 33			
J. H. Kelly.....	do from 10th April, 1889, also temporary from 1st September, 1888.....	300 00			
D. Wilson.....	Temporary Messenger to 31st January 1889 (deceased).....	210 00		683 33	
	Total, Inspector's Office.....				9,699 99
RAILWAY MAIL SERVICE.					
A. Browne.....	Chief Railway Mail Clerk.....	1,500 00	2 34	1,502 34	
J. McN. Gabriel.....	1st Class do.....	960 00	323 24		
J. W. H. Cameron.....	do do.....	960 00	368 48	2,611 72	



DETAIL of all payments for Salaries, &c., in Nova Scotia, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary. \$ cts.	Night Duty add Mileage. \$ cts.	Total of Classes. % cts.	Grand Total. \$ cts.
NOVA SCOTIA DIVISION—RAILWAY MAIL SERVICE—Concluded.					
R. Davison.....	2nd Class Railway Mail Clerk.....	800 00	216 24	7,909 05	
J. McNeil.....	do.....	800 00	319 42		
S. Hall.....	do.....	720 00	196 37		
G. A. Hawkesworth.....	do.....	720 00	338 80		
J. D. Ross.....	do.....	720 00	377 75		
T. Keith.....	do.....	720 00	212 15		
W. Bennett.....	do.....	720 00	194 50		
W. C. McKinnon.....	do.....	680 00	173 82		
promoted from 3rd Class, 1st October, 1888.					
J. Campbell.....	do.....	560 00	161 10		
W. H. McRobert.....	do.....	560 00	318 30		
C. E. Power.....	do.....	560 00	220 07		
W. P. Eaton.....	do.....	550 00	264 65		
F. Southall.....	do.....	520 00	287 18		
H. R. Little.....	do.....	520 00	184 86		
D. O'Sullivan.....	do.....	500 00	263 77		
R. H. Ross.....	do.....	480 00	172 02		
E. Rolston.....	do.....	480 00	199 76		
A. McDonald.....	do.....	480 00	158 06		
J. E. Bigney.....	do.....	480 00	142 20		
from and Temporary, to 10th April, 1889.				8,061 97	
		14,990 00	5,095 08		
Total, Railway Mail Service.....					20,085 08
<i>(Grand Total carried forward.)</i>					20,785 07

DETAIL of all payments for Salaries, &c., in Nova Scotia, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary.		Total of Classes.		Grand Total.	
		\$	cts.	\$	cts.	\$	cts.
	<i>Brought forward.</i>					29,785	07
	HALIFAX POST OFFICE.						
H. W. Blackadar.	Postmaster.	2,400	00				
F. V. Tremain.	Assistant Postmaster.	1,600	00				
E. A. Bent.	1st Class Clerk.	1,500	00	4,000	00		
F. P. Bent.	do	1,200	00				
A. H. Cunningham.	2nd	1,200	00	2,700	00		
W. H. Chamberlain.	do	1,100	00				
J. O'Bryan.	do	1,100	00				
T. G. Creighton.	do	1,100	00	4,500	00		
F. W. Casey.	3rd	800	00				
W. V. Smith.	do	651	62				
P. J. Mulcahy.	do	800	00				
C. D. Fraser.	do	800	00				
C. M. R. Lounds.	do	800	00				
F. J. Power.	do	800	00				
L. W. Travis.	do	800	00				
W. Parker.	do	800	00				
E. Delaney.	do	800	00				
A. C. Crowe.	do	720	00				
W. H. Walker.	do	750	00				
H. A. Boggs.	do	610	00				
E. C. Kaye.	do	570	00				
E. A. Sullivan.	do	480	00				
D. A. King.	do	403	34				
T. J. Curran.	do	440	00				
P. F. Brennan.	do	60	21				
A. E. Gilpin.	do			11,655	17		
S. Saunders.	Superintendent Letter Carrier.	790	00				
J. Fitzgerald.	Letter Carrier.	600	00				
J. Wilson.	do	600	00				
E. Carroll.	do	600	00				

DETAIL of all payments for Salaries, &c., in Nova Scotia, made within the Year ended 30th June, 1889—*Concluded.*

Name.	Service.	Salary.	Total of Classes.	Grand Total.
	HALITAX POST OFFICE— <i>Concluded.</i>	\$ cts.	\$ cts.	\$ cts.
H. S. Laurillard.....	Letter Carrier.....	600 00		
J. Maher.....	do.....	600 00		
J. O'Malley.....	do.....	600 00		
R. Myers.....	do.....	600 00		
J. A. Grant.....	do.....	600 00		
G. Davis.....	do.....	510 00		
J. Wall.....	do.....	487 50		
J. P. Lindsay.....	do.....	240 00		
J. S. Smyth.....	do.....	450 00		
M. J. Theakston.....	do.....	427 50		
J. J. O'Donnell.....	do.....	480 00		
W. A. Keating.....	do.....	367 50		
		390 00	8,342 50	
A. McIntosh.....	Temporary Letter Carrier.....	360 00		
D. Robb.....	do..... from 4th March, 1889	117 09		
J. Wood.....	Letter Collector.....	600 00	477 09	
J. J. Mulcahy.....	do.....	600 00		
E. Payne.....	do.....	502 50		
		390 00	1,702 50	
W. P. Quinane.....	Messenger.....		390 00	
	Total, Halifax Post Office.....			33,767 26
	Balance of salaries remitted by cheque to postmasters other than above; being the excess of their salaries over the amount of revenue collected by them to 30th June, 1888.....			841 08
	Total.....			\$64,393 41

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

PROVINCE OF NEW BRUNSWICK.

DETAIL of all payments made for Salaries, &c., in New Brunswick; showing in each case, the name of the person, the service or duty performed, and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary. \$ cts.	Night Duty and Mileage. \$ cts.	Total of Classes. \$ cts.	Grand Total. \$ cts.
NEW BRUNSWICK DIVISION.					
S. J. King	Post Office Inspector	2,200 00		2,200 00	
W. C. Whittaker	1st Class Clerk	1,350 00		1,350 00	
W. R. Avery	2nd do	1,200 00		2,150 00	
W. Hatch	do	950 00			
161 C. A. Murray	3rd do	800 00			
R. Freeze	do	740 00		1,540 00	
W. Bannister	Messenger	600 00		600 00	
	Total, Inspector's Office				7,840 00
RAILWAY MAIL SERVICE.					
F. W. Blizzard	Acting Chief Railway Mail Clerk	1,345 00		1,345 00	
G. M. Ryan	1st Class Railway Mail Clerk	960 00	418 26		
W. J. Weldon	do	960 00	404 59	2,742 85	
F. A. Estey	2nd do	800 00	311 37		
W. Starkie	do	800 00	333 59		
J. Philps	do	800 00	266 45		
J. R. Fidgeon	do	800 00	311 74		
A. J. Gross	do	800 00	359 63		
H. Wathen	do	800 00	344 23		
D. Price	do	800 00	337 14		
J. G. Miller	do	800 00	305 24		

DETAIL of all payments for Salaries, &c., in New Brunswick, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary. \$ cts.	Night Duty and Mileage. \$ cts.	Total of Classes. \$ cts.	Grand Total. \$ cts.		
NEW BRUNSWICK DIVISION—RAILWAY MAIL SERVICE—Concluded.							
2nd Class Railway Mail Clerk.							
D. McKendrick	do	720 00	246 47	17,061 91			
A. Brittain	do	720 00	341 81				
R. J. Magee	do	720 00	352 08				
S. R. Jack	do	720 00	287 35				
S. R. Maxwell	do	720 00	345 89				
E. L. Willis	do	720 00	180 68				
G. H. Oulton	do	693 33	284 33				
A. Murray	do	660 00	330 58				
3rd							
J. Campbell	do	396 66	154 77				
A. C. Edgcombe	do	520 00	191 10				
F. C. Ketchum	do	520 00	232 66				
C. F. Hoben	do	520 00	217 28				
H. Nadeau	do	520 00	226 63				
J. H. Watt	do	520 00	216 84				
H. B. Peck	do	520 00	267 32				
W. S. Hall	do	480 00	267 65				
R. R. Smith	do	423 22	118 26				
Temporary Railway Mail Clerk.							
D. D'agle	do	480 00	211 36	6,302 39			
H. W. Balding	do	28 00					
		20,266 21	7,905 30	719 36	28,171 51		
Total, Railway Mail Service.							
		28,106 21	7,905 30	36,011 51	36,011 51		
Grand Total carried forward.							

DETAIL of all payments for Salaries, &c., in New Brunswick, made within the Year ended 30th June, 1889—Continued.

Name.	Service.	Salary. \$ cts.	Total of Classes. \$ cts.	Grand Total. \$ cts.
	<i>Brought forward</i>			36,011 51
	<b>FREDERICTON POST OFFICE.</b>			
P. McPeake.	Postmaster.	1,700 00	1,700 00	
J. Cameron.	2nd Class Clerk	1,200 00	1,200 00	
W. B. Phair.	do	900 00	2,100 00	
E. W. Vavasour.	3rd do	800 00		
A. E. Wilson.	do do to 31st May, 1889 (transferred to St. John Post Office).	540 00		
B. Phillips.	do do	520 00		
R. R. Gardner.	do do (including arrears)	410 75	2,270 75	
A. S. Phair.	Letter Carrier, to 31st December, 1888 (deceased)	295 00	295 00	
B. Phair.	Temporary Letter Carrier, from 8th January, 1889.	173 22		
J. D. Perkins.	do from 12th to 27th October, 1888.	15 48		
E. Ryan.	do from 24th December, 1888, to 7th January, 1889.	14 51	203 21	
	Total, Fredericton Post Office.			6,568 96
	<b>ST. JOHN POST OFFICE.</b>			
E. Willis.	Postmaster.	2,000 00		
J. Woodrow.	Assistant Postmaster	1,500 00		
M. J. Potter.	1st Class Clerk.	1,200 00	3,500 00	
A. W. Reed.	do	1,200 00	2,400 00	
H. P. Otty.	2nd do	1,200 00		
A. McNichol.	do do	1,200 00		
R. C. McIntyre.	do do	1,200 00		
G. F. Ring.	do do (less fines)	1,142 13		
J. S. Flaglor.	do do	1,200 00		

DETAIL of all payments for Salaries, &c., in New Brunswick, made within the Year ended 30th June, 1889—*Concluded.*

Name.	Service	Salary.	Total of Classes.	Grand Total.
	ST. JOHN POST OFFICE— <i>Concluded</i>	\$ cts.	\$ cts.	\$ cts.
J. L. Finen.....	2nd Class Clerk.....	1,050 00		
R. D. Woodrow.....	do.....	1,000 00	7,992 13	
J. W. Ring.....	3rd.....	800 00		
R. A. Hamlin.....	do.....	800 00		
T. Jenkins.....	do.....	800 00		
J. H. Ritchie.....	do.....	800 00		
J. P. Bell.....	do.....	800 00		
A. Thompson.....	do.....	800 00		
J. C. Clark.....	do.....	632 88		
H. P. Lee.....	(less fine).....	630 00		
A. E. Wilson.....	do.....	50 00		
F. Ferguson.....	from 1st June, 1889 (transferred from Fredericton Post Office).....	540 00		
J. R. Copp.....	do.....	520 00		
J. P. Hipwell.....	do.....	520 00		
W. O. Dunham.....	do.....	480 00		
J. Malcolm.....	do.....	480 00	8,652 88	
J. A. Ewing.....	Temporary Clerk.....	400 00	400 00	
G. E. Withers.....	Superintendent Letter Carrier.....	515 00		
R. McLaughlin.....	Letter Carrier.....	600 00		
W. Young.....	do.....	600 00		
C. Belyea.....	do.....	600 00		
G. W. Plumptre.....	do.....	600 00		
W. Lane.....	do.....	600 00		
J. McManus.....	do.....	600 00		
J. Beamish.....	do.....	575 00		
U. Belyea.....	(including arrears).....	480 00		
A. Morgan.....	do.....	480 00		
R. Hill.....	do.....	480 00		
O. Grant.....	do.....	462 88		
C. H. Elston.....	(less fine).....	465 00		
J. A. Mailman.....	do.....	435 00		
P. Cassely.....	do.....	435 00	7,927 58	

M. A. McLeod.....	Messenger.....	423 75	423 75	
G. Bell.....	Office-keeper.....	580 00	580 00	
Total, St. John Post Office.....				31,876 34
Balance of salaries remitted by cheque to Postmasters other than above; being the excess of their salaries over the amount of revenue collected by them to 30th June, 1888.....				537 88
Total.....				\$74,994 69

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*



# PROVINCE OF MANITOBA, &c.

DETAIL of all payments made for Salaries, &c., in Manitoba and the North-West Territories; showing, in each case, the name of the person; the service or duty performed; and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary.	Provisional Allowance.	Night Duty and Mileage.	Grand Total.
	MANITOBA, &c., DIVISION.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
W. W. McLeod.....	Post Office Inspector.....	2,200 00	156 20	.....	.....
A. W. Cairns.....	Assistant Inspector.....	1,350 00	153 90	.....	.....
A. J. Patton.....	do (transferred from Railway Mail Service).....	1,200 00	136 80	81 74	5,278 64
A. McGillis.....	2nd Class Clerk.....	1,200 00	136 80	.....	.....
C. F. Tuck.....	do.....	1,000 00	114 00	.....	2,450 80
J. L. Broughton.....	3rd do.....	610 00	86 91	.....	.....
W. T. Macpherson.....	do.....	520 00	118 56	.....	.....
E. R. Stevenson.....	do.....	460 00	104 88	.....	.....
A. S. Royal.....	do from 1st October, 1888 (transferred from Railway Mail Service).....	360 00	82 08	.....	.....
S. Knighton.....	Messenger, from 1st October, 1888 (transferred from Winnipeg Post Office).....	307 50	70 11	.....	2,342 43
	Total, Inspector's Office.....	9,207 50	1,160 24	81 74	377 61
	RAILWAY MAIL SERVICE.				
C. E. Kavanagh.....	Chief Railway Mail Clerk.....	1,350 00	153 90	130 17	1,634 07
J. A. Carman.....	2nd Class Railway Mail Clerk.....	800 00	114 00	542 37	.....
J. G. Norris.....	do.....	720 00	102 60	608 43	.....
C. R. Stewart.....	do.....	720 00	102 60	507 60	.....
L. T. Prudhomme.....	do.....	760 00	108 30	528 47	.....
W. B. Sloan.....	do.....	680 00	96 90	500 97	.....
H. H. Phinney.....	do.....	640 00	91 20	519 33	.....
F. E. Harrison.....	do.....	640 00	91 20	420 11	.....
J. G. Moore.....	do.....	560 00	127 68	236 80	9,294 08
C. Gleeson.....	do (suspended from 2nd February to 25th March, 1889).....	443 26	101 04	455 33	.....

T. A. Scott.....	do	520 00	118 56	471 24
J. T. Colton.....	do	520 00	118 56	455 76
J. Kinney.....	do	520 00	118 56	617 52
T. J. Smith.....	do	520 00	118 56	556 49
A. C. James.....	do	520 00	118 56	509 73
A. Lamothe.....	do	560 00	127 68	458 47
A. Hicks.....	do	523 34	119 32	531 61
W. T. Barrett.....	do	523 34	119 32	417 84
J. D. Sherman.....	do	520 00	118 56	501 13
A. McBride.....	do	510 00	116 28	649 48
A. M. Ferguson.....	do	510 00	116 28	450 29
G. L. Ferguson.....	do	503 34	114 76	433 46
A. Caven.....	do	489 36	111 57	555 18
R. W. Holland.....	do	480 00	109 44	506 47
A. S. Royal.....	do	120 00	27 36	86 17
W. A. Porter.....	do	480 00	109 44	533 66
W. S. Lipsett.....	do	480 00	109 44	585 59
B. A. Parson.....	do	166 66	38 00	107 93
H. H. McCulloch.....	do	480 00	109 44	501 86
Temporary Railway Mail Clerk				
P. W. Allaire.....	do	480 00	109 44	396 30
D. Cameron.....	do	506 67	115 52	630 69
J. F. Sproule.....	do	394 66	89 98	189 49
E. D. H. Wilkins.....	do	46 45	10 59	
Total, Manitoba, &c., Railway Mail Service.....				
WINNIPEG POST OFFICE.				
Postmaster.....				
Assistant Postmaster.....				
1st Class Clerk.....				
2nd.....				
E. Barrett.....	do	2,400 00	170 40	
G. H. Allen.....	do	1,800 00	205 20	
J. Scott.....	do			
H. C. Dumas.....	do	1,200 00	136 80	
3rd.....				
J. R. Simons.....	do	800 00	114 00	
W. A. Rice.....	do	690 00	98 31	
G. A. Hargrave.....	do	640 00	91 20	
W. Braden.....	do	610 00	86 91	
F. Arnell.....	do	600 00	85 50	
A. Monkman.....	do	590 00	96 05	
D. J. Smith.....	do	800 00	114 00	
W. Johnson.....	do	266 67	38 00	
to 31st October, 1888 (transferred to Montreal Post Office).....				
		17,687 08	3,454 64	14,595 94
		2,400 00	170 40	
		1,800 00	205 20	
		1,200 00	136 80	
		1,200 00	136 80	
		1,187 50	135 37	
		975 00	124 68	
		975 00	124 68	
		800 00	114 00	
		690 00	98 31	
		640 00	91 20	
		610 00	86 91	
		600 00	85 50	
		590 00	96 05	
		800 00	114 00	
		266 67	38 00	
				4,575 60
				1,336 80
				4,859 03
				21,839 72
				2,969 79
				35,737 66

DETAIL of all payments for Salaries, &c., in Manitoba, &c., made within the Year ended 30th June, 1889—*Concluded.*

Name.	Service.	Salary. \$ cts.	Provisional Allowance. \$ cts.	Night Duty and Mileage. \$ cts.	Grand Total. \$ cts.
WINNIPEG POST OFFICE— <i>Concluded.</i>					
T. Broad	3rd Class Clerk.				
R. J. Lipsett.	do do to 30th September 1888 (resigned)	480 00	109 44		
A. F. A. Chabot.	do do to 31st July, 1888 (transferred to Ottawa Post Office)	110 00	25 08		
D. A. Keizer	do do	36 67	8 36		
B. A. Parson.	do do to 28th February, 1889 (transferred to Manitoba Division)	460 00	104 88		
L. Garrett.	do do from 1st August, 1888 (transferred from Ottawa Post Office)	293 34	66 88	42 73	
E. C. Macdonald.	do do from, and temporary to, 10th April, 1889.	598 33	85 23		
		400 00	91 20		8,632 78
R. R. Mills.	Temporary Clerk.	400 00	91 20		
R. S. Cox.	do	400 00	91 20		
E. M. Denison.	do	400 00	91 20		
N. Gouin.	do	400 00	91 20		
J. M. Morice.	do do from 10th September, 1888	323 32	73 72		
W. S. Wallace.	do do from 15th September, 1888.	317 77	72 45		
M. Rutan.	do do from 19th October 1888.	280 64	63 98		
M. E. Rowan.	do do from 1st December, 1888.	233 34	53 20		3,383 22
W. J. Gow.	Superintendent Letter Carrier	600 00	85 50		
W. Cunningham.	Letter Carrier.	580 00	132 24		
R. Miller.	do	580 00	132 24		
W. J. Cuthbert, jr.	do	450 00	102 60		
W. M. Burrows.	do	450 00	102 60		
J. H. Lilly.	do	450 00	102 60		
A. Taylor.	do	520 00	118 56		
S. J. Smith.	do do to 31st August, 1888 (resigned)	70 00	15 96		
W. H. Taylor.	do	435 00	99 18		
W. J. Cuthbert, sr.	do	420 00	95 76		
J. Close.	do	412 50	94 05		
S. Knighton.	do	97 50	22 23		
H. W. Dayton.	do do to 30th September, 1888 (transferred to Manitoba Division)	397 50	90 50		
N. Gow.	do do from, and temporary to, 10th April, 1889.	360 00	82 08		7,098 73
J. Russell.	Temporary Letter Carrier	360 00	82 08		
F. Norris.	do from 1st October, 1888.	270 00	61 56		
J. Todd.	do do from 1st October, 1888, to 31st May, 1889 (resigned).	224 52	51 19		
A. L. Hardisty	do do from 20th November 1888.	221 00	50 39		1,320 74

G. A. Pridham.....	Porter, including arrears of provisional allowance.....	390 00	171 00	.....	561 00
J. Brown.....	Messenger.....	600 00	85 50	.....	685 50
	Total, Winnipeg Post Office.....	27,755 60	4,655 07	42 73	32,453 40
	RECAPITULATION.				
	Totals of Inspector's Office.....	9,207 50	1,160 24	81 74	10,449 48
	do Railway Mail Service.....	17,687 08	3,454 64	14,595 94	35,737 66
	do Winnipeg Post Office.....	27,755 60	4,655 07	42 73	32,453 40
	Grand Totals.....	54,650 18	9,269 95	14,720 41	78,640 54
	Balance of salaries remitted by cheque to Postmasters other than above; being excess of their salaries over the amount of revenue collected by them to 30th June, 1888.....				513 97
	Total.....				79,154 51

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

# PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments made for Salaries, &c., in British Columbia, showing, in each case, the name of the person, the service or duty performed, and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary. \$ cts.	Provisional Allowance. \$ cts.	Night Duty and Mileage. \$ cts.	Grand Total. \$ cts.
<b>BRITISH COLUMBIA DIVISION.</b>					
E. H. Fletcher.	Post Office Inspector.	2,000 00	285 00	.....	3,665 00
W. H. Dorman.	Assistant Inspector.	1,200 00	171 00	.....	.....
H. B. Rogers.	2nd Class Clerk, from 10th April, 1889 (transferred from Railway Mail Service).	172 17	.....	6 40	178 57
F. A. Carmichael.	3rd do	480 00	109 44	.....	589 44
	Total, Inspector's Office.	3,852 17	565 44	6 40	4,424 01
<b>RAILWAY MAIL SERVICE.</b>					
J. Rooney.	1st Class Railway Mail Clerk.	960 00	136 80	10 40	.....
D. R. McLean.	do	987 50	96 75	683 52	2,874 97
W. T. Cox.	2nd do	800 00	182 40	731 86	1,714 26
H. B. Rogers.	3rd do	430 00	91 12	235 92	.....
R. Y. Ellis.	do	516 67	117 80	742 13	.....
R. F. Drummond.	do	480 00	109 44	707 86	.....
J. O. McLeod.	do	480 00	109 44	710 38	.....
J. H. Thain.	do	478 67	109 44	722 53	.....
F. R. Dougall.	do	478 71	109 44	760 48	7,390 03
J. H. Good.	Temporary Railway Mail Clerk	480 00	109 44	236 04	858 22
E. O. Atkinson.	do	26 66	6 08	.....	.....
	Total, Railway Mail Service.	6,118 21	1,178 15	5,541 12	12,837 48
<b>VICTORIA POST OFFICE.</b>					
N. Shakespeare.	Postmaster.	2,000 00	286 00	.....	2,286 00
T. A. Cairns.	1st Class Clerk.	1,300 00	49 87	.....	1,349 87

C. W. Newbury.....	2nd	do	do	promoted from 3rd class, 1st October, 1888.	815 00	52 20	1,721 60
C. W. Finlaison.....	do	do	do	do	805 00	49 40	
T. Chadwick.....	3rd	do	do	do	700 00	159 60	
F. R. Sargison.....	do	do	do	to 11th May, 1889 (resigned).	394 19	89 88	
R. J. Butler.....	do	do	do	do	460 00	104 88	
G. A. McCulloch.....	do	do	do	on leave without salary, from 1st June, 1889 (less fine).	419 00	95 76	
J. S. Smith.....	do	do	do	do	440 00	100 32	2,963 63
G. F. D. Simpson.....	Temporary Clerk.	do	do	do	400 00	91 20	
A. F. Englehardt.....	do	do	do	to 2nd May, 1889 (resigned).	335 48		
W. B. Charles.....	do	do	do	do	400 00		
D. B. McConnan.....	do	do	do	do	400 00		
H. H. Warburton.....	do	do	do	(including arrears)	414 45	96 98	
F. W. Davey.....	do	do	do	from 3rd September, 1888	331 12		
F. J. Sehl.....	do	do	do	from 3rd May, 1889	64 52		
F. Bryant.....	do	do	do	from 20th May, 1889	46 24		
W. Stewart.....	do	do	do	from 1st June, 1889.	33 34		2,613 33
T. W. Speed.....	Temporary Letter Carrier.	do	do	to 30th April, 1889 (resigned).	300 00	68 40	
D. G. McKay.....	do	do	do	do	360 00	82 08	
A. Smith.....	do	do	do	do	360 00	82 08	
C. McCormac.....	do	do	do	do	360 00	82 08	
J. H. Friend.....	do	do	do	from 1st May, 1889	60 00	13 68	
J. P. Wallens.....	do	do	do	from 1st to 16th June, 1888.	27 10		
G. E. Smith.....	do	do	do	from 21st December, 1888 to 5th January, 1889.	28 00		
J. Creed.....	do	do	do	one day, 20th February, 1889.	1 00		1,824 42
J. E. McRoberts.....	Messenger, also employed as Temporary Letter Carrier 20 days.	do	do	do	410 00	88 92	498 92
Totals, Victoria Post Office.					11,664 44	1,593 33	13,257 77
RECAPITULATION.							
Totals of Inspector's Office.							
do	do	do	do	Railway Mail Service.	3,852 17	565 44	4,424 01
do	do	do	do	Victoria Post Office.	6,118 21	1,178 15	12,837 48
					11,664 44	1,593 33	13,257 77
Grand Totals.					21,634 82	3,336 92	30,519 26
Balance of salaries remitted to Postmasters other than above being the excess of their salaries over the amount of revenue collected by them to 30th June, 1888.							
Total.							293 69
							\$30,812 95

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

## PROVINCE OF PRINCE EDWARD ISLAND.

DETAIL of all payments made for Salaries, &c., in Prince Edward Island; showing in each case the name of the person, the service or duty performed, and the amount paid within the Year ended 30th June, 1889.

Name.	Service.	Salary. \$ cts.	Night Duty and Mileage. \$ cts.	Total of Classes. \$ cts.	Grand totals \$ cts.
CHARLOTTETOWN POST OFFICE.					
F. de St. C. Brecken.	Assistant Post Office Inspector and Postmaster.	2,000 00			
W. Harris.	2nd Class Clerk	1,200 00		2,000 00	
J. A. Lawson.	do	900 00		2,100 00	
M. White.	3rd do	800 00			
B. Trainor.	do	800 00			
J. M. Campbell.	do	800 00			
J. J. McCarver.	do	600 00			
J. G. W. Brown.	do	600 00			
M. W. Murphy.	do	550 00			
J. N. Robertson.	do	520 00			
J. Macdonald.	do	480 00			
W. H. F. Gill.	do	410 00		5,620 00	
J. Callaghan.	Temporary Clerk.	400 00		400 00	10,120 00
Total, Charlottetown Post Office.					
RAILWAY MAIL SERVICE					
O. R. Grabbe.	2nd Class Railway Mail Clerk.	800 00	169 52		
T. W. Haszard.	do	720 00	144 66		
D. J. Macdonald.	Acting Railway Mail Clerk.	640 00	141 87	2,616 05	
Total, Railway Mail Service					
		2,160 00	456 05		2,616 05
Balance of salaries remitted by cheque to Postmasters other than above, being the excess of their salaries over the amount of revenue collected by them to 30th June, 1888.					
Total.					
					229 21
					\$12,965 26

W. H. SMITHSON, Accountant.

WILLIAM WHITE, Deputy Postmaster-General.

# PROVINCE OF ONTARIO.

DETAIL of all payments for Travelling Expenses, incurred in the service of the Post Office Department in Ontario, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
J. Dewe, Chief P.O.I.	Travelling expenses, within Ontario	292 65
W. E. Bennett, Asst. P.O.I.	do do	587 40
Le F. A. Maingy	do do	20 50
BARRIE DIVISION.		
D. Spry, P.O.I.	Travelling expenses	366 25
J. Henderson, Asst. P.O.I.	do	319 05
A. McCarthy	do	0 75
KINGSTON DIVISION.		
G. E. Griffin, P.O.I.	Travelling expenses	17 00
A. Jones, Asst. P.O.I.	do	442 37
P. H. Macarow	do	43 35
J. C. Strange	do as acting Railway Mail Clerk	51 00
D. E. Rose	do do	6 00
C. G. Shannon	do do	18 00
H. F. Wilnot	do do	18 00
LONDON DIVISION.		
R. W. Barker, P.O.I.	Travelling expenses	527 31
C. Fisher, Asst. P.O.I.	do	328 75
A. McWhinney	do	16 00
OTTAWA DIVISION.		
T. P. French, P.O.I.	Travelling expenses within Ontario	728 50
G. Marsan, Asst. P.O.I.	do do	189 50
C. P. LeSueur, Asst. P.O.I.	do do	40 50
D. Moloney	do do	1 00
W. O. Mercer	do as acting Railway Mail Clerk	24 00
STRATFORD DIVISION.		
H. G. Hopkirk, P.O.I.	Travelling expenses	596 74
D. Moloney, Asst. P.O.I.	do	17 50
TORONTO DIVISION.		
M. Sweetnam, P.O.I.	Travelling expenses	353 77
G. A. Burnham, Asst. P.O.I.	do	294 75
C. J. Winstanley	do	1 50
G. T. B. Gurnett	do	0 65
Asst. P. M., Belleville	Travelling expenses	0 25
Postmaster, Toronto	do	43 00
British Mail Clerks.	Ontario's proportion of expenses, whilst in charge of British Mails.	966 35
Total		\$6,312 39

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.



# PROVINCE OF QUEBEC.

DETAIL of all payments for Travelling Expenses incurred in the service of the Post Office Department, in Quebec, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
J. Dewe, Chief P. O. I.	Travelling expenses, within Quebec	131 50
W. E. Bennett, Asst. P. O. I.	do do	51 75
MONTREAL DIVISION.		
E. F. King, P. O. I.	Travelling expenses	478 85
D. Nelligan, Asst. P. O. I.	do	546 72
J. E. Gervais, Asst. P. O. I.	do	453 75
J. A. Madore	do	25 55
OTTAWA DIVISION.		
T. P. French, P. O. I.	Travelling expenses, within Quebec	171 94
G. Marsan, Asst. P. O. I.	do do	147 15
QUEBEC DIVISION.		
A. Bolduc, P. O. I.	Travelling expenses	1,208 00
J. L. Anctil, Asst. P. O. I.	do	460 80
C. Vohl	do as acting Railway Mail Clerk	102 00
O. Fréchette	do	13 00
J. B. Caouette	do	6 75
L. J. H. Larue	do as acting Railway Mail Clerk	19 50
do	do	10 40
L. E. Simard	do as acting Railway Mail Clerk	31 50
do	do	39 60
J. Boufford	do as acting Railway Mail Clerk	16 70
J. J. Battle	do	4 00
THREE RIVERS DIVISION.		
G. A. Bourgeois, P. O. I.	Travelling expenses	635 98
J. P. Chillas, Asst. P. O. I.	do	655 75
G. O. Bailey	do as acting Railway Mail Clerk	85 45
A. Dorais	do do	25 50
Asst. Postmaster, Farnham	Travelling expenses	2 00
British Mail Clerks	Quebec's proportion of expenses whilst in charge of British Mails	369 15
Total		\$5,693 29

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

# PROVINCE OF NOVA SCOTIA.

DETAIL of all payments for Travelling Expenses incurred in the service of the Post Office Department, in Nova Scotia, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
J. Dewe, Chief P.O.I....	Travelling expenses within Nova Scotia.....	46 35
Le F. A. Maingy.....	do do .....	69 50
C. J. Macdonald, P.O.I....	do .....	721 20
J. D. Story, Asst. P.O.I....	do .....	45 00
D. Stewart, Acting Asst. P.O.I.....	do .....	448 45
T. G. Creighton.....	do .....	9 28
S. Howe.....	do .....	23 50
Postmaster, Liverpool....	Travelling expenses.....	2 40
J. McN. Gabriel .....	Expenses whilst in charge of British Mails.....	9 00
	Total.....	\$1,374 68

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

# PROVINCE OF NEW BRUNSWICK.

DETAIL of all payments for Travelling Expenses incurred in the service of the Post Office Department, in New Brunswick, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
S. J. King, P.O.I.....	Travelling expenses.....	565 89
W. C. Whittaker.....	do .....	227 00
W. R. Avery.....	do .....	95 05
M. Sweetnam, P.O.I., Toronto.....	do (within New Brunswick).....	53 15
	Total.....	\$941 09

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

### PROVINCE OF MANITOBA, &c.

DETAIL of all payments for Travelling Expenses incurred in the service of the Post Office Department, in Manitoba and the North-West Territories, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
W.E. Bennett, Asst. P.O.I.	Travelling expenses within Manitoba, &c. ....	9 50
W. W. McLeod, P.O.I.	do do .....	40 50
A. W. Cairns, Asst. P.O.I.	do do .....	277 50
A. J. Patton, Asst. P.O.I.	do do .....	600 00
	Total .....	\$927 50

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

### PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments for Travelling Expenses incurred in the service of the Post Office Department, in British Columbia, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
E. H. Fletcher, P. O.I.	Travelling expenses .....	751 40
W.H.Dorman, Asst P.O.I.	do .....	313 10
F. A. Carmichael.....	do as acting Railway Mail Clerk.....	48 00
H. B. Rogers.....	do do .....	67 50
C. W. Finlaison.....	do do .....	100 50
	Total .....	\$1,280 50

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

---

 PROVINCE OF PRINCE EDWARD ISLAND.
 

---

DETAIL of all payments for Travelling Expenses incurred in the service of the Post Office Department, in Prince Edward Island, made within the Year ended 30th June, 1889.

Name.	Service.	Amount.
		\$ cts.
F. de St. C. Brecken, As- sistant P. O. I. ....	Travelling expenses .....	121 54
J. G. W. Brown .....	do as acting Railway Mail Clerk. ....	31 50
J. McCarey .....	do do .....	7 50
J. M. Campbell .....	do .....	2 25
	Total .....	\$162 79

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF ONTARIO.

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department in Ontario, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
B. A. Bank Note Co....	Engraving and printing postage stamps, post cards, &c., for the Post Office Department, in Ontario .....	27,100 55
Pritchard & Andrews....	Office stamps and seals, &c., for the P. O. Department, in Ontario..	3,193 76
do	Office scales and weights .....	512 58
C. Wilson & Son.....	do .....	120 00
L. G. Pratt.....	Coin scales .....	10 00
Maynard, Harris & Co..	Letter Carriers' uniform materials .....	946 81
Rosamond Woolen Co....	do .....	919 35
W. Cummings, Sons & Co	do .....	361 89
Paton Manufacturing Co	do .....	236 37
Bryson, Graham & Co..	do .....	11 88
R. J. Devlin.....	Re-covering Letter Carriers' caps, for the P. O. Department, in Ontario .....	386 71
C. Gagné & Co.....	Making Letter Carriers' uniforms, for the P. O. Dept., in Ontario..	123 00
T. Force.....	Letter Carriers' boots .....	30 25
R. S. Montgomery.....	do waist belts .....	11 25
Stevens & Burns.....	Street letter boxes .....	144 00
W. Truman.....	Making and repairing postage stamp boxes .....	102 00
J. B. G. Samson.....	Repairing postage stamp boxes .....	36 00
J. Stevenson.....	Dominion ensigns .....	57 91
McKinley & Northwood.	Railway Mail Clerks' tin boxes, &c. .....	45 65
H. Barnard.....	Obliterating stamps .....	18 00
H. Weekes.....	Repairing wooden boxes .....	25 00
C. W. Allan & Co.....	Patent bag holders, &c. .....	7 00
E. Chanteloup.....	Stamping machine rollers .....	2 40
J. Leslie.....	Repairing office clock .....	1 50
J. Wilson & Co.....	Framing pictures for the Postmaster-General's room .....	7 50
McKinley & Northwood.	Railway Mail Clerks' tin box for P. O. I., Barrie.....	10 00
H. Sewrey.....	Repairing copying press, &c. .....	4 65
A. J. Henderson.....	Caligraph copy-holder .....	2 50
R. A. Douglas.....	Repairing clock .....	1 00
J. Henderson.....	Hardware .....	0 97
R. A. Dutton.....	Matches .....	0 55
J. G. Bastow.....	Repairing street letter boxes for P.O.I., Kingston.....	8 48
E. H. Roberts.....	Locksmith's work .....	2 00
R. Waldron.....	Towels .....	1 80
J. S. Henderson.....	Brooms and soap .....	1 35
J. Muckleston & Co..	Hardware .....	0 10
Stevens & Burns.....	Street letter boxes supplied P.O.I., London.....	392 00
C. Anundson.....	Repairing office furniture, &c. .....	7 45
W. E. Young.....	Caligraph and office cabinet for P.O.I., Ottawa.....	111 84
J. R. Smith.....	Repairing copying press .....	7 50
Butterworth & Co.....	Hardware, &c. .....	8 15
H. J. Fraser.....	Sweet oil .....	0 35
E. Dunsmore & Son....	Water cooler and filter for P.O.I., Stratford.....	7 00
H. Ward.....	Soap, matches, &c. .....	2 02
J. W. McEwin.....	Candles, matches, &c. .....	1 65
McKinley & Northwood.	Railway Mail Clerks' tin boxes for P.O.I., Toronto.....	70 00
Howland Sons & Co....	Street letter box locks .....	49 85
Grand Trunk Ry. Co....	Mail bag catchers .....	19 56
W. H. Sparrow.....	Repairing Railway Mail Clerks' boxes .....	8 40
T. Pells.....	Carpenter's work .....	3 82
Mills Bros.....	Soap and broom .....	2 67
J. & J. Taylor.....	Repairing office safe lock .....	1 00
F. D. Ford.....	Repairing lock boxes, &c., P.O., Belleville.....	8 90
W. S. Reeves.....	Repairing street letter boxes .....	4 50
J. W. Dunnet.....	Bedding .....	4 00
Davis & Gibson.....	Soap .....	2 20
Wallbridge & Clarke....	Soap and soda .....	2 10
G. S. Tickell & Sons....	Mirror .....	1 00
W. McGie.....	Plumber's work .....	0 95

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department, in Ontario, made within the Year ended 30th June, 1889.—*Continued.*

Name.	Particulars.	Amount.
		\$ cts.
W. A. Hamilton, P. M.	To pay for repairing street letter box at Collingwood.	1 25
R. J. Rankin, P. M.	To pay for repairing office scales at Dover Centre.	0 75
Pritchard & Andrews	Money order pay stamp for P.O., Forest.	1 00
do	do do Goderich.	1 00
J. Calder & Co.	Making Letter Carriers' uniforms for P.O., Hamilton.	153 75
J. H. Lightfoot	Letter Carriers' boots	131 10
W. F. Tanner.	do	73 20
J. Mills & Son.	do caps	24 50
R. S. Montgomery.	do waist belts	5 25
Leitch & Son.	Repairing street letter boxes	37 75
Leitch & Co.	Repairing and putting up street letter boxes	37 30
McKinley & Northwood.	Oil, &c.	0 85
Steel & Sowter.	Repairing and painting mail truck at P.O., Jarvis.	6 00
W. Cannon.	Making Letter Carriers' uniforms for P.O., Kingston.	115 00
S. & H. Borbridge.	Letter Carriers' boots	38 25
W. F. Tanner.	do	21 96
J. J. Devlin.	do fur caps	19 00
J. S. Henderson.	Soap, brooms, matches, &c.	8 51
R. Waldron.	Towelling, cloth for stamping pads, &c.	7 90
E. Chanteloup.	Stamping machine rollers	7 20
G. M. Wilkinson & Son.	Sorting baskets	5 85
J. G. King & Co.	Turpentine, &c.	2 50
J. Muckleston & Co.	Hardware	2 48
W. M. Brennan.	Office stool	1 00
McMahon Bros.	Desk lock	0 25
Ingle & Ryley	Moving street letter box for P.O., Lindsay.	2 00
J. Robinson.	Repairing street letter box	1 00
Pritchard & Andrews.	Money order pay stamp	1 00
R. Boyd.	Making Letter Carriers' uniforms for P.O. London.	185 00
P. Cook.	Letter Carriers' boots	135 00
W. F. Tanner.	do	65 88
Powell, Allen & Bricken-	do fur caps	17 00
den.	do waist belt	0 75
R. S. Montgomery.	Repairing postage stamp boxes	4 70
C. Anundson.	Brooms and brush	4 60
J. R. Gurd.	Repairing numbering machine, &c.	2 10
W. A. Brock.	Repairing street letter box at Napanee.	1 00
J. Lowry.	Carpenter's work for P.O., Oshawa.	15 14
J. Sykes.	Making Letter Carriers' uniforms for P.O., Ottawa.	324 00
C. Gagné & Co.	Letter Carriers' boots	130 50
S. & H. Borbridge.	do	70 76
W. F. Tanner.	do	4 50
T. Force.	do fur caps	38 00
R. J. Devlin.	do waist belts	3 00
R. S. Montgomery.	Attendance on clocks	60 00
J. H. Bartlett.	Stamping machine rollers	12 00
E. Chanteloup.	Rubber hose, feather dusters, &c.	11 95
J. R. Esmonde.	Soap	8 00
K. D. Graham.	Brooms, soap, &c.	7 20
Bate & Co.	Patent mail bag holders	4 50
C. W. Allen & Co.	Hardware	2 70
Graves Bros.	do	1 90
N. & G. Hay.	Pipe clay	0 60
McKinley & Northwood.	Erecting street letter box at Owen Sound.	5 00
E. Miller.	Repairing do	1 25
J. Waites.	Putting up letter box at Perth Railway Station.	3 00
R. Elliott.	Repairing street letter box at Picton.	1 00
J. Illsey.	Putting up do	0 50
A. Irving.	do do Port Hope.	1 00
T. Leonard.	Money order pay stamp for P.O., Prescott.	1 00
Pritchard & Andrews.	Putting up street letter boxes, &c., at St. Thomas.	6 80
E. Sanogon.	Making Letter Carriers' uniforms for P.O., Toronto.	1,333 00
C. Martin & Co.	Letter Carriers' boots	391 50
R. Birmingham.	do	

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department in Ontario, made within the Year ended 30th June, 1889.—*Concluded.*

Name.	Particulars.	Amount.
		\$ cts.
W. F. Tanner.....	Letter Carriers' boots, for Post Office, Toronto .....	229 36
J. & J. Lugsdin.....	do caps do .....	123 50
R. S. Montgomery.....	do waist belts do .....	9 75
T. Pells.....	Carpenters' work do .....	619 77
T. Thompson.....	Repairing inside leather cases for street letter boxes, Toronto.....	180 90
J. & E. H. Roberts.....	Locksmith's work, P. O., Toronto.....	67 40
E. H. Roberts.....	do do .....	146 86
The E. & C. Gurney Co.....	Street letter boxes do .....	117 00
J. E. Ellis & Co.....	Attendance on clocks do .....	125 00
E. Chanteloup.....	Stamping machine rollers do .....	19 20
Lyman Bros. & Co.....	Chloride of lime do .....	7 81
N. L. Piper & Son.....	Turpentine, oil, broom, &c. do .....	7 35
W. A. Murray & Co.....	Towels do .....	3 15
Pritchard & Andrews.....	Money order pay stamps for branch office, Peter St., Toronto .....	2 00
M. Serritt.....	Repairing mail box at Trenton Station.....	1 00
E. Marentette.....	Locksmith's work for P. O., Windsor.....	37 20
P. Peters.....	do do .....	6 34
G. A. & E. B. Neveux.....	Hardware do .....	4 90
F. H. Mann.....	Pail and soap, &c. do .....	4 15
E. Langlois.....	Brooms and matches do .....	1 70
Canada Patent Brush Co.....	Brooms do .....	1 50
A. H. Joseph.....	Feather duster do .....	1 35
Drake & Joyce.....	Repairing office furniture do .....	1 25
J. Ryan.....	Making and erecting mail-catching posts at Berriedale, Creswell, Egbert and Parkersville.....	50 00
A. McCarthy.....	To pay expenses in connection with sundry mail-catching posts.....	5 85
J. Ryan.....	Repairing mail-catching post at Bramley .....	4 00
W. C. Andrew.....	do do do Creswell and Josephine.....	3 75
E. Evans.....	do do do Creswell.....	1 00
L. M. Grant.....	Making do do Dumbarton.....	2 75
C. Stata.....	Repairing do do Farran's Point.....	1 84
J. A. Blain.....	Making do do Gilford Station.....	1 50
M. Callaghan.....	Repairing do do Melancthon Station.....	0 25
F. Freeman.....	do do do Proton Station.....	2 50
	Total.....	\$40,515 08

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF QUEBEC.

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department, in Quebec, made within the year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
B. A. Bank Note Co....	Engraving and printing postage stamps, post cards, &c., for the Post Office Department, in Quebec.....	10,338 12
Pritchard & Andrews....	Office stamps and seals for the P. O. Department, in Quebec.....	1,298 36
do	Office scales and weights do	250 71
C. Wilson & Son.....	do do	78 75
L. G. Pratt.....	Coin scales do	7 50
Maynard, Harris & Co....	Letter Carriers' uniform materials do	516 45
Rosamond Woolen Co....	do do	501 46
W. Cummings, Sons & Co	do do	197 40
Paton Manufacturing Co.	do do	128 93
R. J. Devlin.....	Re-covering Letter Carriers' caps, for the P. O. Department, in Quebec.....	210 30
C. Gagné & Co.....	Making Letter Carriers' uniforms for the P. O. Department, in Quebec.....	41 00
T. Force.....	Letter Carriers' boots for the P. O. Department, in Quebec.....	9 00
R. S. Montgomery.....	do waist belts and straps do	13 80
J. B. G. Samson.....	Making and repairing postage stamp boxes do	54 00
J. Stevenson.....	Dominion ensigns do	19 63
H. Barnard.....	Obliterating stamps do	12 00
McKinley & Northwood.	Railway Mail Clerks' tin boxes do	10 00
E. Chanteloup.....	Street letter box keys for Chief Post Office Inspector.....	14 70
do	Repairing street letter boxes, &c., for P. O. I., Montreal.....	303 55
J. Giroux.....	Painter's work, do	75 00
J. Grace.....	do do	14 75
The E. & C. Gurney Co..	Street letter boxes do	19 50
P. Whitty.....	Repairing street letter boxes, &c., for P. O. I., Quebec.....	132 60
F. X. Robitaille.....	do do	16 40
P. Garneau Son & Co....	Materials for postal maps of the Province of Quebec, for P. O. I., Quebec.....	35 13
J. B. Morin.....	Repairing Ry. mail clerks' tin boxes, for P. O. I., Quebec.....	26 25
G. Bailey.....	Street letter boxes do	20 00
Andrews Bros.....	Hardware do	8 42
N. Binet.....	Brooms, soap, matches, &c. do	7 18
J. Jones, Agent.....	Whisperphone do	1 50
Lavigne & Grenier.....	Making mail box for P. O. I., Three Rivers.....	10 00
J. B. Luckeroff.....	Repairing Railway Mail Clerk's tin box, Three Rivers.....	2 80
F. B. Bellefeuille & Co..	Repairing street letter box do	2 00
F. Allard.....	Erecting street letter boxes at Lévis.....	5 00
J. & E. McIntyre.....	Making Letter Carriers' uniforms for P. O., Montreal.....	992 50
D. K. McLaren.....	Letter Carriers' boots do	315 00
W. F. Tanner.....	do do	158 60
Lanthier & Co.....	do caps do	72 00
Bryson, Graham & Co....	do uniform material do	7 50
E. Chanteloup.....	Locksmith's works &c. do	139 72
H. Grant & Son.....	Attendance on clocks do	93 00
D. O'Connor.....	Stamping pads and repairs do	64 00
E. J. Maxwell & Co.....	Lumber do	44 67
H. Bulwer & Bro.....	do do	16 85
McArthur & Co.....	Paints, oils, &c. do	13 71
H. A. Nelson & Sons.....	Brooms, feather dusters, &c. do	14 10
J. Walker & Co.....	Hardware do	11 43
Gravel Bros.....	Soap do	8 00
Frothingham & Workman	do do	7 03
P. Pelosse.....	Sorting baskets do	3 25
R. Mitchell & Co.....	Repairing locks, &c. do	3 00
National Manufact'g Co.	Repairing flags do	2 00
P. O'Donoghue.....	Repairing letter box do	1 50
McKinley & Northwood.	Pipe clay do	0 75
J. Mason.....	Repairing street letter box at Point St. Charles.....	1 50



DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department, in Quebec, made within the year ended 30th June, 1889.—*Concluded.*

Name.	Particulars.	Amount.
		\$ cts.
W. Lee.....	Making Letter Carriers' uniforms for P. O., Quebec.....	111 00
A. Bolduc, P.O.I.....	To pay for Letter Carriers' boots do.....	68 75
J. E. Caron.....	Letter Carriers' boots do.....	84 00
W. F. Tanner.....	do do.....	51 24
R. J. Devlin.....	do moccasins do.....	36 75
Dugal & Co.....	do cap do.....	4 25
Bryson, Graham & Co.....	do uniform material do.....	7 50
G. Seifert.....	Attendance on clocks do.....	45 00
A. Bidigare.....	Cleaning and repairing office stamps do.....	18 00
Hardy & Drolet.....	Brooms, soap, matches, &c. do.....	16 74
Z. Vandry & Sons.....	Tin boxes for stamp issue office do.....	16 00
J. Hamel & Co.....	Linen for use of charwomen do.....	0 86
C. Pitt.....	Sorting basket do.....	0 70
L. Lavoie.....	Fitting up letter box at Rimouski Railway Station.....	3 00
Prtchard & Andrews.....	Money Order pay stamp for P. O., Sorel.....	1 00
do.....	do do Stanstead.....	1 00
A. Parent.....	Erecting mail-catching post at Notre Dame de Rimouski.....	4 00
H. Heppell.....	do St. Anaclet.....	1 50
	Total.....	\$16,823 59

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF NOVA SCOTIA.

DETAIL of all payments in discharge of Tradesmen's Bills for articles supplied for the service of the Post Office Department, in Nova Scotia, made within the year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
B. A. Bank Note Co....	Engraving and printing postage stamps, post cards, &c., for the Post Office Department in Nova Scotia.....	3,700 54
Pritchard & Andrews ...	Office stamps and seals for Post Office Department, in Nova Scotia.	725 57
do	Office scales and weights do do ..	86 12
C. Wilson & Son.....	do do ..	123 75
L. G. Pratt.....	Coin scales do do ..	2 50
Maynard, Harris & Co..	Letter Carriers' uniform materials do do ..	91 13
Paton Manufacturing Co.	do do do ..	22 75
Rosamond Woolen Co....	do do do ..	88 49
W. Cummings, Sons & Co	do do do ..	63 44
R. J. Devlin .....	Re-covering Letter Carriers' caps do do ..	38 15
C. Gagné & Co .....	Making Letter Carriers' uniforms do do ..	20 50
T. Force .....	Letter Carriers' boots do do ..	4 50
A. J. Grant & Co.....	Twine for P. O. I., Halifax .....	250 50
C. W. Davies.....	Locksmith's work for P. O. I., Halifax.....	50 00
Truro Foundry and Machine Company .....	Street letter box do .....	42 00
C. & W. Anderson.....	Brooms, soap, &c., do .....	6 09
Theakston, Angwin & Co.	Hardware do .....	1 00
Clayton & Sons.....	Making Letter Carriers' uniforms for P. O., Halifax .....	185 00
A. J. Grant & Co.....	Twine supplied do .....	210 00
J. Lilly .....	Letter Carriers' boots do .....	76 50
R. J. Devlin.....	Letter Carriers' fur caps do .....	61 75
C. W. Davies.....	Locksmith's works do .....	50 90
do .....	Mail bag stretchers do .....	3 00
Gordon & Kieth .....	Mattresses supplied do .....	14 00
Hattie & Mylius .....	Soap do .....	10 50
W. Slaughter.....	Sorting baskets do .....	9 80
R. H. Cogswell.....	Attendance on clocks do .....	5 00
R. S. Montgomery.....	Letter Carriers' waist belt do .....	0 75
Pritchard & Andrews...	Money Order pay stamp for P. O., Annapolis.....	1 00
	Total.....	\$5,945 23

WILLIAM WHITE,

*Deputy Postmaster-General.*

W. H. SMITHSON,

*Accountant.*

# PROVINCE OF NEW BRUNSWICK.

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department in New Brunswick, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
B. A. Bank Note Co....	Engraving and printing postage stamps, post cards, &c., for the Post Office Department in New Brunswick.....	2,620 27
Pritchard & Andrews...	Office stamps and seals for P. O. Department in New Brunswick..	484 03
do	Office scales and weights do	133 85
L. G. Pratt.....	Coin scales do	2 50
Maynard, Harris & Co.	Letter Carriers' uniform materials for do	75 95
Rosamond Woolen Co....	do do	73 75
Paton Manufacturing Co.	do do	18 96
W. Cummings, Sons & Co	do do	29 02
R. J. Devlin.....	Re-covering Letter Carriers' caps do	31 10
C. Gagné & Co.....	Making Letter Carriers' uniforms do	20 50
R. S. Montgomery.....	Letter Carriers' waist belts do	9 00
T. Force.....	Letter Carriers' boots do	4 50
J. Stevenson.....	Dominion ensigns do	29 44
G. Hutchinson.....	Attendance on clocks for P. O. I., St. John.....	50 00
Truro Foundry and Machine Co.....	Street letter boxes do	14 00
A. G. Bowes & Co.....	Repairing street letter boxes do	3 10
J. W. Barnes & Co.....	Towels, &c. do	4 30
W. H. Thorne & Co.....	Feather dusters and brushes do	7 03
H. W. Barker.....	Methylated spirits do	2 70
Jardine & Co.....	Brooms, matches, &c. do	1 60
A. McDonald.....	Putting up street letter boxes at P. O., Moncton.....	20 00
T. Youngclaus.....	Making Letter Carriers' uniforms, P. O., St. John.....	96 00
J. Hammond.....	Letter Carriers' boots do	55 25
W. F. Tanner.....	do do	29 28
A. G. Bowes & Co.....	Repairing street letter boxes do	60 58
J. Hunter.....	Locksmith's work do	12 25
A. Hunter.....	do do	8 00
J. R. Smith.....	Sorting baskets do	14 10
W. H. Thorne & Co.....	Towels, brooms, &c. do	6 88
G. S. DeForest.....	Brooms, matches, &c. do	6 34
G. Hutchinson.....	Attendance on clock, P. O., St. John.....	6 00
H. W. Barker.....	Alcohol, turpentine, &c. do	8 35
E. Chanteloup.....	Stamping machine rollers do	4 80
J. H. Pullen.....	Painter's work do	3 00
Pritchard & Andrews...	Money order pay stamp for P. O., Chatham.....	1 00
do	Money order pay stamp and pad for P. O., St. Martin's.....	1 50
R. Miller.....	Making and erecting mail catching post at Eel River Crossing.....	10 00
Truro Foundry and Machine Co.....	Street letter box for Salisbury Station.....	7 00
	Total.....	\$3,965 93

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF MANITOBA, &c.

DETAIL of all payments in discharge of Tradesmen's Bills for articles supplied for the service of the Post Office Department in Manitoba and the North-West Territories, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
B. A. Bank Note Co....	Engraving and printing postage stamps, post cards, &c., for the Post Office Department in Manitoba, &c.....	2,898 50
Pritchard & Andrews ...	Office stamps and seals for the P. O. Department in Manitoba, &c.	398 46
do .....	Office scales and weights do do ..	246 00
L. G. Pratt .....	Coin scales do do ..	2 50
Maynard, Harris & Co...	Letter Carriers' uniform materials do do ..	81 00
Rosamond Woolen Co...	do do do do ..	78 66
W. Cummings, Sons & Co	do do do do ..	30 96
Paton Manufacturing Co.	do do do do ..	20 23
S. & H. Borbridge.....	do chamois vests do do ..	24 00
do .....	do boots do do ..	84 50
R. J. Devlin .....	Re-covering Letter Carriers' caps do do ..	35 41
C. Gagné & Co.....	Making Letter Carriers' uniforms do do ..	20 50
R. S. Montgomery.....	Letter Carriers' waist belts do do ..	9 75
T. Force .....	do boots do do ..	4 50
McKinley & Northwood.	Railway Mail Clerks' boxes do do ..	10 60
J. Stevenson .....	Dominion ensigns do do ..	9 82
G. P. Bliss .....	Erecting and painting street letter boxes for P.O.I., Winnipeg.....	66 75
J. L. Blair & Co.....	Blankets and rug do .....	8 00
Wright & Co.....	Waterproof blanket do .....	6 00
Mulholland Bros.....	Hardware do .....	4 20
H. Hodges .....	Soap, matches, &c. do .....	3 95
R. D. Richardson.....	Baskets do .....	3 00
J. H. Ashdown.....	Turpentine, oil, &c. ....	0 75
J. R. Cameron & Co...	Making Letter Carriers' uniforms for P. O., Winnipeg.....	306 00
R. J. Devlin .....	Letter Carriers' fur caps, collarettes, moccasins, &c., for P. O., Winnipeg.....	76 50
W. F. Tanner .....	Letter Carriers' boots for P. O., Winnipeg .....	36 60
H. B. Rose & Co.....	Measuring Letter Carriers for uniforms, for P. O., Winnipeg.....	2 00
R. S. Montgomery.....	Letter Carriers' waist belts do .....	1 50
A. Schmidt.....	Locksmith's work do .....	61 65
J. H. Ashdown.....	Hardware, brooms, &c. do .....	28 18
Wright Bros.....	Towels do .....	8 50
Mitchell Drug Co. ....	Methylated spirits, disinfectants, &c. do .....	4 20
G. Andrew.....	Repairing clocks do .....	3 00
	Total.....	\$4,576 17

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department, in British Columbia, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.	
		\$	cts.
B. A. Bank Note Co.	Engraving and printing postage stamps, post cards, &c., for the Post Office Department, in British Columbia.	1,142	72
Pritchard & Andrews	Office stamps and seals for the P. O. Department, in British Columbia	152	24
do	Office scales and weights	50	51
C. Wilson & Son	do	75	00
Maynard, Harris & Co.	Letter Carriers' uniform materials	25	31
Rosamond Woollen Co.	do	24	58
W. Cummings, Sons & Co.	do	9	68
Paton Manufacturing Co.	do	6	32
C. Gagne & Co.	Making Letter Carriers' uniforms	20	50
S. & H. Borbridge	Letter Carriers' boots	18	00
T. Force	do	4	50
P. Cook	do	4	50
R. J. Devlin	Re-covering Letter Carriers' caps	13	13
R. S. Montgomery	Letter Carriers' waist belts	3	00
McKinley & Northwood	Oil for Letter Carriers' lamps	0	85
F. W. Hart	Office furniture for P. O. I., Victoria	32	85
McKillican & Anderson	Painting and putting up street letter boxes for P. O. I., Victoria.	30	00
W. Heathorn	Letter Carriers' boots	20	00
A. Gregg & Son	Measuring Letter Carriers for uniforms	2	00
Taylor & Mellon	Altering do uniforms	0	75
J. Sears	Painting indicators, for street letter boxes	9	00
T. N. Hibben & Co.	Brooms, soap, &c.	3	00
McKinley & Northwood	Painting and lettering Railway Mail Clerks' boxes	3	00
W. & G. Wolfenden	Soap, matches, &c., for P. O., New Westminster	1	00
W. J. Brewer	Making and erecting street letter box posts for P. O., Vancouver.	20	00
Galbraith & Campion	Screen for P. O., Vancouver.	6	00
A. King	Removing street letter box for P. O., Vancouver.	1	50
W. Cummings, Sons & Co.	Letter Carriers' uniform materials for P. O., Victoria.	39	00
C. Gagne & Co.	Making Letter Carriers' uniforms	54	00
J. T. Burrows	Altering do	1	50
P. Cook	Letter Carriers' boots	22	50
W. F. Tanner	do	9	75
E. B. Marvin & Co.	Twine	62	50
J. Barnsley & Co.	Locksmith's work	11	75
A. Vipond	do	3	00
J. Sehl	Water filter	7	75
J. Gosnell	Brooms, soap, &c.	5	37
H. Gribble	Feather dusters	5	00
D. Spencer	Towels and soap	1	00
E. G. Prior & Co.	Hardware	0	50
J. Street	Putting up street letter box at Duncan Station	1	50
Total.		\$1,905	07

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

PROVINCE OF PRINCE EDWARD ISLAND.

DETAIL of all payments in discharge of Tradesmen's Bills, for articles supplied for the service of the Post Office Department, in Prince Edward Island, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
B. A. Bank Note Co....	Engraving and printing postage stamps, post cards, &c., for the Post Office Department in Prince Edward Island.....	585 39
Pritchard & Andrews ...	Office stamps and seals for the Post Office Department in Prince Edward Island.....	203 71
do .....	Office scales and weights for the P. O. Department in P. E. Island.	43 98
C. Wilson & Son.....	do do do .....	48 75
A. L. Brown.....	Bedding, towels, &c., for P. O., Charlottetown.....	10 52
S. W. Crabbe.....	Brooms, soap and matches do .....	3 92
W. W. Wellner.....	Repairing clock, &c. do .....	0 48
	Total .....	\$896 75

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

### PROVINCE OF ONTARIO.

DETAIL of all payments by the Post Office Department, for Rents and Taxes in Ontario, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Corporation of Prescott.	Rent of Post Office, Prescott (1 year to 31st August, 1888).....	325 00
Grand Trunk Ry. Co.....	do Mail room, at Union Station, Toronto (1 year to 31st December, 1888).....	50 00
	Total.....	\$375 00

### PROVINCE OF QUEBEC.

DETAIL of all payments by the Post Office Department, for Rents and Taxes in Quebec, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Montreal City and District Savings Bank.....	Rent of Eastern Receiving House, Montreal (1 year to 30th April, 1889).....	250 00
W. McGowan.....	do Northern do do do ..	250 00
Montreal City and District Savings Bank.....	do Western do do do ..	250 00
R. S. Cooke.....	do Post Office Valleyfield (1 year to 31st March, 1889).....	160 00
Grand Trunk Ry. Co....	do Mail room at Bonaventure Station, Montreal (11 months to 30th November, 1888).....	45 83
	Total.....	\$955 83

### PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments by the Post Office Department, for Rents and Taxes in British Columbia, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
L. A. Hamilton, Agent....	Rent of Post Office, Vancouver (6 months to 30th June, 1888).....	180 00
J. M. Browning do ..	do do do (9 do 31st March, 1889).....	270 00
	Total.....	\$450 00

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

## PROVINCE OF ONTARIO.

DETAIL of all payments, by the Post Office Department, for Stationery, Printing and Advertising, in Ontario, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.	
		\$	cts.
Queen's Printer and Stationery Office.....	Printing and Stationery for the P. O. Department in Ontario.....	30,336	47
Ottawa "Canadian Militia Gazette".....	Advertising Money Orders do do .....	99	00
Ottawa "Canadian Mining Review".....	do do do do .....	50	60
Glasgow "Herald".....	Advertising for mail tenders, Canada and United Kingdom.....	25	80
Kingston "News".....	Advertising tenders, for Letter Carriers' supplies.....	57	20
London "Free Press".....	do do do .....	44	33
Ottawa "Citizen".....	do do do .....	44	33
do "Le Canada".....	do do do .....	44	33
Stratford "Times".....	do do do .....	21	60
Toronto "Empire".....	do do do .....	85	80
do "Sentinel".....	do do do .....	22	50
do "World".....	do do do .....	57	20
Barrie.....	Advertising time-tables, Post Office notices, &c.....	100	00
Belleville.....	do do .....	37	50
Bradford.....	do do .....	50	00
Brantford.....	do do .....	150	00
Brockville.....	do do .....	37	50
Chatham.....	do do .....	50	00
Galt.....	do do .....	50	00
Guelph.....	do do .....	75	00
Hamilton.....	do do .....	113	50
Kingston.....	do do .....	161	40
Lindsay.....	do do .....	50	00
London.....	do do .....	177	50
Ottawa.....	do do .....	640	50
Pembroke.....	do do .....	52	00
Peterboro.....	do do .....	187	50
Port Hope.....	do do .....	79	17
Richmond Hill.....	do do .....	50	00
St. Thomas.....	do do .....	25	00
Sarnia.....	do do .....	50	00
Stratford.....	do do .....	75	00
Toronto.....	do do .....	230	00
Wallaceburg.....	do do .....	75	00
Woodstock.....	do do .....	50	00
Alexandria "Glengarrrian".....	Advertising for mail tenders, &c.....	42	40
Almonte "Times".....	do do .....	49	78
Arnprior "Chronicle".....	do do .....	31	36
Brantford "Courier".....	do do .....	11	34
do "Telegram".....	do do .....	9	28
Brockville "Times".....	do do .....	6	12
Carleton Place "Central Canadian".....	do do .....	47	06
Chatham "Planet".....	do do .....	3	48
Clinton "News-Record".....	do do .....	4	29
Cornwall "Standard".....	do do .....	6	00
Eganville "Enterprise".....	do do .....	16	40
Ingersoll "Tribune".....	do do .....	4	20
Kingston "News".....	do do .....	21	20
Leamington "Post".....	do do .....	5	00
Listowel "Standard".....	do do .....	4	20
London "Catholic Record".....	do do .....	10	50
London "Farmer's Advocate".....	do do .....	6	00
London "Free Press".....	do do .....	6	24



DETAIL of all payments, by the Post Office Department, for Stationery, Printing and Advertising, in Ontario, made within the Year ended 30th June, 1889—*Concluded.*

Name.	Particulars.		Amount.	
			\$	cts.
L'Orignal "Advertiser"	Advertising for mail tenders, &c.		13	60
Madoc "N. H. Review"	do do		4	48
Morrisburg "Courier"	do do		10	32
Napanee "Beaver"	do do		5	60
New Hamburg "Independent"	do do		2	48
Norwood "Register"	do do		3	75
Ottawa "Canadian Militia Gazette"	do do		20	90
Ottawa "Citizen"	do do		18	00
do "Journal"	do do		23	92
do "Le Canada"	do do		18	00
Pembroke "Standard"	do do		12	52
Perth "Expositor"	do do		29	39
Peterboro' "Canada Lumberman"	do do		4	95
Peterboro' "Review"	do do		5	40
do "Times"	do do		6	00
Picton "Gazette"	do do		8	40
Port Dover "Maple Leaf"	do do		4	03
Prescott "Messenger"	do do		4	48
Renfrew "Journal"	do do		16	80
Ridgetown "Standard"	do do		4	20
Sarnia "Canadian"	do do		9	28
Simcoe "Br. Canadian"	do do		3	60
Smith's Falls "Independent"	do do		5	16
Smith's Falls "News"	do do		10	08
Stirling "News-Argus"	do do		4	80
Strathroy "Dispatch"	do do		4	80
Toronto "Canada Presbyterian"	do do		8	00
Toronto "Canadian Baptist"	do do		5	04
Toronto "Canadian Grocer"	do do		5	00
Toronto "Canadian Sportsman"	do do		10	00
Toronto "Christian Guardian"	do do		8	60
Toronto "Dominion Churchman"	do do		8	00
Toronto "Empire"	do do		18	90
do "Evangelical Churchman"	do do		4	20
Toronto "Evening Telegram"	do do		12	30
Toronto "Irish Canadian"	do do		8	00
do "News"	do do		14	10
do "Presbyterian News"	do do		9	00
Toronto "Sentinel"	do do		6	90
do "World"	do do		14	10
Walkerton "Herald"	do do		4	20
Windsor "Clarion"	do do		6	00
do "Review"	do do		5	80
Total			\$34,143 66	

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

# PROVINCE OF QUEBEC.

DETAIL of all payments by the Post Office Department, for Stationery, Printing and Advertising in Quebec, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Queen's Printer and Stationery Office .....	Printing and stationery for the P. O. Department in Quebec ..	11,945 10
Aylmer "Times" .....	Advertising for tenders for Letter Carriers' supplies. ....	24 48
Hull "La Vallée de l'Ot-tawa" .....	do do .....	24 80
Hull "Weekly Dispatch" .....	do do .....	25 22
Montreal "Gazette" .....	do do .....	48 62
do "La Minerve" .....	do do .....	44 33
do "Le Monde" .....	do do .....	44 33
Quebec "Canadien" .....	do do .....	48 62
do "Courrier du Canada" .....	do do .....	48 62
do "Morning Chronicle" .....	do do .....	45 76
Shawville "Equity" .....	do do .....	12 60
Aylmer .....	Advertising time-tables, Post Office notices, &c. ....	25 00
Chicoutimi .....	do do .....	11 09
Fraserville .....	do do .....	9 00
Hull .....	do do .....	87 50
Lévis .....	do do .....	9 00
Montreal .....	do do .....	626 78
Quebec .....	do do .....	653 94
Richmond .....	do do .....	7 20
Ste. Anne de la Pocatière .....	do do .....	4 94
Sherbrooke .....	do do .....	13 77
Three Rivers .....	do do .....	80 20
Aylmer "Times" .....	Advertising for mail tenders, &c. ....	17 44
Bryson "Equity" .....	do do .....	4 50
Hull "La Vallée de l'Ot-tawa" .....	do do .....	9 10
Hull "Weekly Dispatch" .....	do do .....	30 80
Montreal "Gazette" .....	do do .....	5 40
do "La Minerve" .....	do do .....	6 60
do "La Presse" .....	do do .....	7 70
do "Le Monde" .....	do do .....	6 60
do "Star" .....	do do .....	7 80
Three Rivers "Journal" .....	do do .....	27 20
	Total ..	\$13,963 95

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF NOVA SCOTIA.

DETAIL of all payments by the Post Office Department for Stationery, Printing and Advertising, in Nova Scotia, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Queen's Printer and Stationery Office.....	Printing and Stationery for the P. O. Dept. in Nova Scotia....	4,218 55
Halifax "Evening Mail".....	Advertising for tenders, for Letter Carriers' supplies.....	35 75
do "Morning Herald".....	do do do.....	35 75
North Sydney "Herald".....	do do do.....	19 80
W. Gossip.....	Ink and mucilage for Inspector's Office, Halifax.....	21 00
do.....	do Postmaster do.....	45 20
Halifax.....	Advertising time-tables, Post Office Notices, &c.....	197 20
Amherst "Gazette".....	Advertising for mail tenders, &c.....	27 84
Annapolis "Spectator".....	do do.....	39 64
Antigonishe "Casket".....	do do.....	27 20
Bridgetown "Monitor".....	do do.....	46 32
Caledonia "Gold Hunter".....	do do.....	3 60
Digby "Courier".....	do do.....	8 16
Halifax "Evening Mail".....	do do.....	208 20
do "Morning Herald".....	do do.....	220 95
do "Presbyterian Witness".....	do do.....	60 48
Kentville "Western Chronicle".....	do do.....	14 40
New Glasgow "Enterprise".....	do do.....	44 56
North Sydney "Herald".....	do do.....	93 38
Parrsboro' "Leader".....	do do.....	2 80
Pictou "Colonial Standard".....	do do.....	47 20
Springhill "Independent".....	do do.....	9 00
do "Record".....	do do.....	4 48
Stellarton "Trades Journal".....	do do.....	22 08
Sydney "Advocate".....	do do.....	80 40
Windsor "Clarion".....	do do.....	31 36
do "Journal".....	do do.....	31 36
do "Tribune".....	do do.....	4 48
Yarmouth "Times".....	do do.....	294 60
	Total.....	\$5,895 74

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF NEW BRUNSWICK.

DETAIL of all payments by the Post Office Department for Stationery, Printing and Advertising in New Brunswick, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Queen's Printer and Stationery Office.....	Printing and stationery for the P. O. Dept. in New Brunswick.	3,521 67
St. John "Sun".....	Advertising for tenders for Letter Carriers' supplies.....	44 33
Barnes & Co.....	Ink and stationery for Inspector's Office, St. John.....	10 85
do.....	do Postmaster, St. John.....	21 90
Bathurst.....	Advertising time-tables, Post Office notices, &c.....	11 52
St. John.....	do do.....	146 10
Sackville.....	do do.....	7 00
Chatham "World".....	Advertising for mail tenders, &c.....	146 40
Fredericton "Capital".....	do do.....	85 10
Fredericton "Maritime Farmer".....	do do.....	95 95
Fredericton "Religious Intelligencer".....	do do.....	145 88
Fredericton "Reporter".....	do do.....	62 95
Fredericton "Temperance Journal".....	do do.....	70 90
Harvey "Observer".....	do do.....	8 60
Hillsboro' "Observer".....	do do.....	29 25
Moncton "Times".....	do do.....	50 50
Newcastle "Advocate".....	do do.....	63 36
St. Andrew's "Bay Pilot".....	do do.....	29 76
St. John "Evening Gazette".....	do do.....	38 75
St. John "Messenger and Visitor".....	do do.....	66 90
St. John "Sun".....	do do.....	65 74
St. Stephen "St. Croix Courier".....	do do.....	45 00
Sackville "Chignecto Post".....	do do.....	27 80
Shediac "Le Moniteur Acadien".....	do do.....	21 28
Sussex "Record".....	do do.....	36 00
Woodstock "Press".....	do do.....	32 32
	Total.....	\$4,885 81

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF MANITOBA, &c.

DETAIL of all payments by the Post Office Department for Stationery, Printing and Advertising in Manitoba and the North-West Territories, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Queen's Printer and Stationery Office .....	Printing and Stationery for the P. O. Dept. in Manitoba, &c..	3,517 82
St. Boniface "Le Manitoba" .....	Advertising for tenders for Letter Carriers' supplies.....	14 40
Winnipeg "Call" .....	do do .....	57 20
A. Taylor .....	Ink and mucilage for Inspector's Office, Winnipeg .....	22 25
do .....	do Postmaster .....	23 00
Winnipeg .....	Advertising time tables, Post Office notices, &c. ....	215 00
Battleford "Herald" .....	Advertising for mail tenders, &c. ....	15 15
Birtle "Observer" .....	do do .....	11 00
Brandon "Mail" .....	do do .....	17 00
Calgary "Herald" .....	do do .....	38 08
Emerson "International" .....	do do .....	16 40
Fort Qu'Appelle "Vidette" .....	do do .....	30 80
Lethbridge "News" .....	do do .....	47 32
McLeod "Gazette" .....	do do .....	37 80
Minnedosa "Tribune" .....	do do .....	16 32
Moosomin "Courier" .....	do do .....	33 88
Morden "Monitor" .....	do do .....	23 00
Neepawa "Register" .....	do do .....	5 40
Portage la Prairie "Review" .....	do do .....	29 60
Qu'Appelle "Progress" .....	do do .....	45 00
Regina "Leader" .....	do do .....	33 54
St. Boniface "Le Manitoba" .....	do do .....	142 22
Selkirk "Record" .....	do do .....	16 40
Stonewall "News" .....	do do .....	16 60
Winnipeg "Call" .....	do do .....	74 20
do "Emigrant" .....	do do .....	79 20
do "Heimskringla" .....	do do .....	41 40
do "Manitoba Colonist" .....	do do .....	58 95
Winnipeg "Nor'West Farmer" .....	do do .....	35 70
Winnipeg "North-West Review" .....	do do .....	58 76
Winnipeg "Scandinavian Canadian" .....	do do .....	21 00
Winnipeg "Siftings" .....	do do .....	58 20
	Total .....	4,847 59

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments by the Post Office Department for Stationery, Printing and Advertising in British Columbia, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Queen's Printer and Stationery Office.....	Printing and stationery for the Post Office Department in British Columbia.....	1,220 31
Victoria "Colonist".....	Advertising for tenders for Letter Carriers' supplies.....	35 75
T. N. Hibben & Co.....	Ink supplied Inspector's Office, Victoria.....	7 90
do do.....	Ink and mucilage for Postmaster, Victoria.....	28 50
Vancouver.....	Advertising time-tables, Post Office notices, &c.....	14 80
Victoria.....	do do.....	159 40
Kamloops "Sentinel".....	Advertising for mail tenders, &c.....	4 90
Nanaimo "Free Press".....	do do.....	7 00
New Westminster "British Columbian".....	do do.....	5 88
Vancouver "Herald".....	do do.....	8 00
Vancouver "News-Advertiser".....	do do.....	8 00
Victoria "Colonist".....	do do.....	13 80
Victoria "Standard".....	do do.....	13 20
	Total.....	\$1,527 44

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

PROVINCE OF PRINCE EDWARD ISLAND.

DETAIL of all payments by the Post Office Department for Stationery, Printing and Advertising in Prince Edward Island, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
Queen's Printer and Stationery Office.....	Printing and stationery for the Post Office Department in Prince Edward Island.....	601 83
T. L. Chappelle.....	Ink for Postmaster, Charlottetown.....	9 55
Charlottetown.....	Advertising time-tables, Post Office notices, &c.....	96 00
do "Examiner".....	Advertising for mail tenders, &c.....	7 60
do "Herald".....	do do.....	7 00
Summerside "Journal".....	do do.....	24 15
	Total.....	\$746 13

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

## PROVINCE OF ONTARIO.

DETAIL of all payments for Miscellaneous Disbursements on account of the Post Office Department, in Ontario, made within the year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
D. Spry, P.O.I.	Incidental expenses, Post Office Inspector, Barrie	60 35
G. E. Griffin, P.O.I.	do do Kingston	19 82
R. W. Barker, P.O.I.	do do London	61 59
T. P. French, P.O.I.	do do Ottawa	298 12
H. G. Hopkirk, P.O.I.	do do Stratford	26 80
M. Sweetnam, P.O.I.	do do Toronto	169 60
J. H. Meacham, P.M.	do do Postmaster, Belleville	141 75
H. N. Case, P.M.	do do do Hamilton	31 33
J. Shannon, P.M.	do do do Kingston	17 93
R. J. C. Dawson, P.M.	do do do London	61 09
J. A. Gouin, P.M.	do do do Ottawa	593 30
T. C. Patteson, P.M.	do do do Toronto	391 36
A. Wigle, P.M.	do do do Windsor	82 44
Post Office Department.	Freight paid upon Letter Carriers' uniform materials, &c.	57 35
C. P. Telegraph Co.	Telegrams to and from Chief Post Office Inspector	13 76
G. N. W. Telegraph Co.	do do do	22 94
do	do do Post Office Inspector, Barrie	22 67
C. P. Telegraph Co.	do do do Kingston	17 14
G. N. W. Telegraph Co.	do do do do	31 63
do	do do do London	37 53
C. P. Telegraph Co.	do do do do Ottawa	14 83
G. N. W. Telegraph Co.	do do do do do	41 89
C. P. Telegraph Co.	do do do do do Stratford	10 01
G. N. W. Telegraph Co.	do do do do do do	29 98
C. P. Telegraph Co.	do do do do do do Toronto	37 92
G. N. W. Telegraph Co.	do do do do do do do	65 51
do	do do do do do do Postmaster, Hamilton	9 18
do	do do do do do do do London	6 75
do	do do do do do do do do Ottawa	17 95
do	do do do do do do do do do Toronto	35 14
do	do do do do do do do do do do Whitby	9 72
Bell Telephone Co.	Telephone messages, Post Office Inspector, Barrie	0 85
do	do do do do Kingston	1 10
do	do do do do do Stratford	7 55
do	do do do do do do Toronto	1 15
P. O. Savings Bank	Commissions to Postmasters upon Savings Bank business (12 months to 31st March, 1889)	10,648 31
Director of the International Postal Bureau	Proportion of Postal Union expenses (12 months to 31st Dec., 1888)	222 11
Bell Telephone Co.	Rent of Telephone at Inspector's Office, Barrie (12 months to 31st Aug., 1889)	25 00
do	Rent of Telephone at Inspector's Office, Kingston (12 months to 30th June, 1889)	35 00
do	Rent of Telephone at Inspector's Office, London (12 months to 30th Sept., 1889)	55 00
do	Rent of Telephone at Inspector's Residence, Ottawa (12 months to 30th June, 1889)	35 00
do	Rent of Telephone at Inspector's Office, Stratford (12 months to 31st Oct., 1889)	35 00
do	Rent of Telephone at Inspector's Office, Toronto (12 months to 30th Sept., 1889)	50 00
do	Rent of Telephone at Post Office, Kingston (12 months to 31st July, 1889)	35 00
do	Rent of Telephone at Post Office, London (12 months to 31st Oct., 1889)	60 00
do	Rent of Telephone at Post Office, Toronto (12 months to 31st Aug., 1889)	50 00

DETAIL of all payments for Miscellaneous Disbursements on account of the  
Post Office Department, in Ontario, made within the year ended 30th  
June, 1889—*Continued.*

Name.	Particulars.	Amount.
		\$ cts.
London Street Car Co.	Street Car Letter Carrier service, London	400 00
Ottawa do	do tickets for use of Letter Carriers, Ottawa	110 00
Toronto do	do Letter Carrier service, Toronto	2,400 00
G. Yates	To pay for Letter Carriers' ferry tickets, Toronto	9 50
J. Hendry	Express hire for Letter Carriers on Christmas day, Toronto	22 25
Blackburn & Cox	Legal services in re Scott, late P. M. Dorchester Station	225 82
M. Walsh	do Wilkinson, late P. M. Holbrook	5 50
T. G. Meredith	do B. Millar, prosecuted for false pretences	10 00
do	do H. E. Maitland do do	15 00
Douglas, Douglas & Walker	do Hunter, late P. M. Fargo	5 00
A. P. Sherwood, Chief Dominion Police	Detective services in re burglary of P. O., Penbroke	51 14
D. O'Leary, Inspector Dominion Police	do do do	82 45
do do	Detective services in re mail robbery at Prescott	50 00
T. Bell	Gratuity for services in connection with the arrest of J. Sutton, convicted of fraud in connection with the mail	5 00
W. Calverley	Detective services in re missing registered letter, P. O. Whitby	4 00
Her Majesty's Stationery Office, London, Eng.	Alphabetical lists of Money Order Offices in the United Kingdom	89 24
J. F. O'Brien	Telephone index for Inspector's and Postmaster's Offices, Ottawa	6 00
R. Logan	Services rendered in search of missing mail from London to Ottawa, on 3rd Dec., 1888	15 00
J. Pringle	Allowance while engaged in P. O. Inspector's Office, Barrie	28 50
do	Allowance while in charge of Post Office, Burlington	60 00
W. Cousins	Expenses in connection with P. O. at Exhibition Grounds, London	25 50
W. C. Cochran	do do do do Ottawa	12 00
G. B. Sweetnam	do do do do Toronto	21 60
Postmaster, Glen Stewart	Arrears of salary to 30th June, 1888	2 00
do Harrison	Arrears of forward duty to 30th June, 1889	48 00
do Hillsdale	do do	14 00
do Vivian	do do	16 00
A. A. Allen	Expenses while acting Mail Transfer Agent at Hamilton	33 00
W. H. Offett	Collecting letters from street letter boxes at Windsor	300 00
P. Reid	do do Gananoque	25 00
T. Hanley	To pay for collecting letters at City depot, and delivering same to Mail Clerks at outer depot, Kingston	24 00
Postmaster, Bancroft	Compensation for Post Office funds lost in transmission to bank	80 00
do Bennington	do Postage Stamps destroyed by fire	2 75
do Blenheim	do Post Office funds stolen from his office	187 18
do Bothwell	do do	33 00
do Bridgewater	do Post Cards destroyed by fire	3 38
do Chesley	do Postage Stamps destroyed by fire	5 00
do Chesterville	do Money Order funds stolen from his office	50 00
do Clarke	do do	19 50
do Dacre	do Postage Stamps destroyed by fire	35 00
do Dale	do do	9 75
do Embrun	do Postage Stamps stolen from his office	45 00
do Fort Francis	do Postage Stamps burned in postal car, en route from Department, and charged to P.M.	36 00
do Fort William		
do West	do Postage Stamps stolen from his office	36 00
do Garden River	do Postage Stamps destroyed by fire	7 50
do Harrowsmith	do Postage Stamps stolen from his office	30 00
do Hilton	do Post Office funds lost in transmission to P.O.I., Kingston	13 50
do Keene	do Post Office funds lost in transmission to Bank	59 75
do L'Amable	do Money Order funds lost in transmission to Bank	70 00
do Maitland	do Postage Stamps destroyed by fire	4 00
do Martintown	do Postage Stamps stolen from his office	60 00



DETAIL of all payments for Miscellaneous Disbursements on account of the  
Post Office Department, in Ontario, made within the year ended 30th  
June, 1889—*Concluded.*

Name.	Particulars.	Amount.
Postmaster, Mt. Brydges	Compensation for Post Office funds lost in transmission to Bank...	8 cts.
do Norwood...	do Money Order funds stolen from his office .....	40 00
do Orono .....	do Post Office funds stolen from his office .....	23 96
do Pembroke...	do Post Office funds and Postage Stamps stolen from his office .....	87 98
do Sault Ste. Marie....	do Post Office funds lost in transmission to Bank....	667 90
do Smith's Falls	do Post Office funds and Postage Stamps stolen from his office .....	417 61
do Toronto.....	do counterfeit note taken at Money Order Office....	419 30
do Vienna.....	do Post Office funds lost in transmission to Bank....	2 00
do Warkworth..	do do do .....	675 00
do West Huntingdon..	do money paid to late Postmaster through a misunderstanding .....	290 00
do Whitby...	do Post Office funds and Postage Stamps stolen from his office .....	3 00
do Windsor....	do loss of Postage Stamps through error of late Clerk .....	396 02
do Zimmerman.	do Postage Stamps destroyed by fire .....	8 09
W. Potter.....	Services as laborer, Post Office, Ottawa.....	20 00
H. Mailleur.....	do do do .....	365 00
F. Smith.....	do do Toronto .....	312 00
W. Benson.....	do do do .....	456 25
H. L. Bell.....	do do do .....	456 25
G. Hullett.....	do do Windsor .....	200 00
A. Kelly.....	Services as Night Watchman at P.O. Inspector's Office, Ottawa....	200 00
E. Hart.....	do do Post Office, London.....	547 50
H. J. Grasset, Chief Police .....	To pay Night Watchman, Post Office, Toronto.....	52 00
G.T. Railway Co.....	To pay Mail Porter at Union Station, Toronto.....	130 00
H. Onimet.....	Putting up double windows, &c., Inspector's Office, Ottawa.....	187 20
N. M. Bell, Supt. Foreign Mails.....	Refund of amount claimed to have been enclosed in letter to Mrs. Jas. Dewe, Stanhope, Ont., and which failed to be delivered...	19 00
H. Dunbar.....	Compensation for loss of quarters in Kingston Post Office building, while Messenger .....	10 10
D. Moloney.....	Removal expenses, Ottawa to Stratford .....	100 00
J. Yorick.....	do London to Stratford .....	156 01
J. H. Scott.....	do Toronto to Ottawa .....	30 25
T. E. Davison.....	do Halifax to Ottawa .....	122 10
Sundry persons.....	Gratuities for charge of night mails at principal Railway Stations..	35 85
	Total.....	65 00
		\$25,096 63

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

# PROVINCE OF QUEBEC.

DETAIL of all payments for Miscellaneous Disbursements on account of the Post Office Department, in Quebec, made within the year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
E. F. King, P.O.I.	Incidental expenses, Post Office Inspector, Montreal	44 74
A. Bolduc, P.O.I.	do do Quebec	207 58
G. A. Bourgeois, P.O.I.	do do Three Rivers	148 35
G. LaMothe, P.M.	do Postmaster, Montreal	916 31
A. G. Tourangeau, P.M.	do do Quebec	381 99
C. P. Telegraph Co.	Telegrams to and from Post Office Inspector, Montreal	7 23
G. N. W. Telegraph Co.	do do do	22 35
C. P. Telegraph Co.	do do Quebec	1 74
G. N. W. Telegraph Co.	do do do	117 50
C. P. Telegraph Co.	do do Three Rivers	5 51
G. N. W. Telegraph Co.	do do do	10 00
C. P. Telegraph Co.	do Postmaster, Montreal	2 30
G. N. W. Telegraph Co.	do do do	257 03
do	do do Quebec	30 45
Bell Telephone Co.	Telephone message, Postmaster, Montreal	0 35
Post Office Savings Bank	Commissions to Postmasters upon Savings Bank business (12 months, to 31st March, 1889)	1,527 42
Director of the International Postal Bureau	Proportion of Postal Union expenses (12 months, to 31st Dec., 1888)	84 85
Bell Telephone Co.	Rent of telephones at Inspector's office and residence, Quebec, (12 months to 30th June, 1889)	80 00
do	Rent of telephones at Inspector's office and residence, also at Assistant Inspector's residence, Three Rivers (12 months, to 30th September, 1889)	75 00
do	Rent of telephone at Post Office, and at Bonaventure Depot, Montreal, (14 months to 30th Nov., 1889)	80 00
do	Rent, and expense of removing telephone at Receiving Houses, Montreal (12 months to 30th June, 1889)	184 50
J. Neilson	Furnishing telephonic reports of railway mail trains to Post Office, Montreal (13 months to 31st May, 1889)	130 00
Electric Service Co.	Rent of alarm box, Post Office, Montreal (14 months, to 31st March, 1889)	14 00
A. Bolduc, P. O. I.	Expenses in connection with arrest of J. N. Grondin, at St. François, Beauce, for appropriating money letters	3 00
B. Desroche	Expenses as witness <i>in re</i> J. N. Grondin	5 91
J. P. Chillias, Asst, P.O.I.	To pay legal services of L. J. Cannon in connection with mail robbery at Arthabaska Station	5 00
J. Patry	Detective services in connection with mail robbery at Arthabaska Station	48 30
J. Fahey	Detective services in connection with investigation at Post Office, Montreal	150 00
C. A. Cinq-Mars	Employed by the Postmaster-General on detective services	30 00
J. S. Hall, jr.	To pay detective services in connection with Reade lottery	30 00
E. J. Hemming	Legal services <i>in re</i> Regina vs. Wood, late P. M. Boulogne	25 00
H. Abbott, jr.	Legal services <i>in re</i> garnishee to restrain Postmaster General from delivering a letter to M. Durocher	5 00
A. Cullin	Detective services <i>in re</i> J. S. Scott, clerk in Post Office, Melbourne, who was arrested for stealing money from registered letters	3 00
W. Lee	Measuring Letter Carriers for uniforms	75 00
Postmaster, Port au Persil	Arrears of salary to 30th June, 1888	1 00
F. Pepin	To pay for Letter Carriers' street car tickets at Montreal	5 80
B. Tremblay	Refund of money found in a dead letter and reclaimed	5 00
A. F. Foss	Expenses in connection with Post Office at exhibition building, Sherbrooke	3 75
M. E. Ballantyne	Compensation for termination of mail contract L'Islet and Railway Station, before expiration of term	35 00
J. Evarts	Allowance for attendance on British mails upon their arrival at South Quebec	100 00
P.M. Denison's Mills	Compensation for Postage Stamps stolen from his office	20 00
do Levis Sub Office	do Post Office funds stolen from his office	88 92
do St. Jean Baptiste de R.	do Postage Stamps destroyed by fire	50 00

DETAIL of all payments for Miscellaneous Disbursements on account of the Post Office Department, in Quebec, made within the year ended 30th June, 1889—*Concluded.*

Name.	Particulars.	Amount.
		\$ cts.
L. Renois, Messenger . . .	Allowance in lieu of lodging, fuel and light when use of Post Office basement as lodgings was discontinued . . . . .	200 00
P. Jones . . . . .	Services as laborer at Post Office, Montreal (less fine) . . . . .	455 75
T. Cunningham . . . . .	do do . . . . .	456 25
J. McLaughlin . . . . .	do do . . . . .	456 25
J. Manning . . . . .	do do . . . . .	456 25
R. Lanning . . . . .	do do . . . . .	456 25
L. Quinlan . . . . .	do do (less fine) . . . . .	455 75
J. Quinn . . . . .	do do . . . . .	456 25
J. Berthelet . . . . .	do do . . . . .	456 25
R. Talbot . . . . .	do and Sunday watchman, Post Office, Montreal . . . . .	547 50
A. Trudel . . . . .	Services as fireman and night watchman, Post Office, Montreal . . . . .	456 25
T. F. Battle . . . . .	Services as laborer, Post Office, Quebec . . . . .	21 00
Postmaster, Hochelaga . .	Superintending and accommodating Letter Carriers' Branch . . . . .	72 00
do Point St. Charles . . . . .	do do . . . . .	200 00
do St. Jean Bte . . . . .	do do . . . . .	72 00
A. Beaudry . . . . .	Removal expenses, Quebec to Three Rivers . . . . .	68 00
	Total . . . . .	\$10,304 63

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF NOVA SCOTIA.

DETAIL of all payments for Miscellaneous Disbursements on account of the Post Office Department, in Nova Scotia, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
C. J. Macdonald, P.O.I..	Incidental expenses, Post Office Inspector, Halifax .....	252 00
H. W. Blackadar, P.M..	do Postmaster do .....	240 92
Western Union Tel. Co..	Telegrams to and from Post Office Inspector, Halifax .....	255 53
do	do Postmaster do .....	16 70
Post Office Savings Bank	Commissions to Postmasters upon Savings Bank business (12 mos. to 31st March, 1889).....	374 76
Director of the International Postal Bureau	Proportion of Postal Union expenses (12 months to 31st Dec., 1888)	30 82
Control Department.....	Military and naval postage paid within the Dominion and refunded	20 58
Nova Scotia Telephone Co	Rent of telephone at Inspector's Office, Halifax (6 months to 31st March, 1889).....	20 00
do do	Rent of telephone at Post Office, Halifax (12 months to 30th April, 1889).....	40 00
Burland Lithographic Co	Postal maps of Nova Scotia .....	952 67
J. McN. Gabriel.....	Expenses incurred while assorting British Mails at Halifax.....	104 25
W. H. McRobert.....	do do do .....	24 00
S. M. Mackenzie ..	Refund of postage erroneously charged on newspapers mailed to subscribers in the United States, from 1st January, 1883, to 30th November, 1888.....	85 97
W. Graham .....	Legal expenses <i>in re</i> Kelly, late Postmaster at Shelburne .....	11 48
Postmaster, Annapolis ..	Compensation for Postage Stamps stolen from his office .....	112 41
do Aylesford.....	Compensation for Money Order funds stolen from his office .....	35 09
do Hebron.....	Allowance for forward duty from 1st April, 1883, to 31st December, 1885).....	137 50
do Head of Wallace Bay, N.S.....	Allowance for increase of salary from 1st January, 1884, to 30th June, 1885.....	19 00
Postmaster, Rawdon Gold Mines .....	Compensation for Postage Stamps destroyed by fire .....	30 75
Postmaster, Upper Musquodoboit.....	Allowance for forward duty from January 1st, 1886, to June 30th, 1888 .....	200 00
T. E. Davison .....	Removal expenses, Ottawa to Halifax.....	29 85
	Total .....	\$2,994 28

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

# PROVINCE OF NEW BRUNSWICK.

DETAIL of all payments for Miscellaneous Disbursements, on account of the Post Office Department in New Brunswick, made within the year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
S. J. King, P.O.I.....	Incidental expenses, Post Office Inspector, St. John.....	132 16
P. McPeake, P.M.....	do Postmaster, Fredericton.....	17 80
E. Willis, P.M.....	do do St. John.....	332 16
C. P. Telegraph Co.....	Telegrams to and from Post Office Inspector, St. John.....	2 89
Western Union Tel. Co.....	do do do.....	155 25
do.....	do Postmaster, Fredericton.....	11 94
do.....	do do St. John.....	28 04
St. Martins Telephone Co.....	Telephone message, Post Office Inspector, St. John.....	0 80
Post Office Savings Bank.....	Commissions to Postmasters upon Savings Bank business (12 mos. to 31st March, 1889).....	658 43
Director of the International Postal Bureau.....	Proportion of Postal Union expenses (12 months to 31st Dec., 1888).....	21 62
Nova Scotia Tel. Co.....	Rent of telephone at Inspector's Office, St. John (6 months to 31st March, 1889).....	20 00
New Brunswick Tel. Co.....	do do (6 mos. to 30th Sept., 1889).....	17 50
Nova Scotia Tel. Co.....	Rent of telephone at Post Office, Fredericton (4 mos. to 31st Jan., '89).....	6 67
New Brunswick Tel. Co.....	do do (6 mos. to 31st July, '89).....	10 00
Burland Lithographic Co.....	Postal maps of New Brunswick.....	645 30
J. & A. McMillan.....	Map of New Brunswick for Post Office Inspector, St. John.....	50 00
Dep. Minister of Justice.....	To pay legal expenses in Regina <i>vs.</i> Fisher and Farmer, sureties for late Postmaster, Portland.....	174 70
L. R. Harrison.....	Legal services <i>in re</i> late Postmaster, Portland.....	55 20
do.....	do St. Stephen lottery.....	150 00
J. L. Finan.....	Expenses while in charge of Bathurst Post Office.....	134 00
J. Duke.....	Compensation for termination of mail contract—Caraquet and Shipigan—on opening of Caraquet Railway.....	10 00
Postmaster, Campbellton.....	Compensation for Post Office funds stolen from his office.....	106 17
do Grand Falls.....	do Maritime Bank bills taken on money order acct.....	14 00
do St. John.....	do difference in stock of Postage Stamps on hand upon transfer of Post Office.....	2 00
T. Allen.....	Gratuity for charge of mails at Cape Tormentine, season 1888-89.....	125 00
R. Dunbar.....	do do at Chatham Junction (1 year to 31st March, 1889).....	25 00
J. Shehan.....	do do at Fredericton Junction, Seasons '87 & '88.....	40 00
W. Hagerman.....	do do on Fredericton Branch Railway (1 year to 30th Sept., 1888).....	20 00
J. B. Humphrey.....	do do at Painsec Junction, Seasons 1874 & '75.....	45 00
	Total.....	\$3,011 68

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

PROVINCE OF MANITOBA, &c.

DETAIL of all payments for Miscellaneous Disbursements on account of the Post Office Department in Manitoba and the North-West Territories, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
W. W. McLeod, P.O.I.	Incidental expenses, Post Office Inspector, Winnipeg.	151 75
W. Hargrave, P. M.	do Postmaster, Winnipeg.	89 47
C. P. Telegraph Co.	Telegrams to and from Post Office Inspector, Winnipeg.	131 58
Great N.-W. Tel. Co.	do do	14 20
Post Office Savings Bank	Commissions to Postmasters upon Savings Bank business (12 mos. to 31st March, 1889).	21 42
Director of the International Postal Bureau	Proportion of Postal Union expenses (12 mos. to 31st Dec., 1888).	24 17
Bell Telephone Co.	Rent of telephone at Post Office, Winnipeg (12 mos. to 30th Nov., 1889).	50 00
Aikins, Culver & Hamilton.	Legal services <i>in re</i> Haight, late Postmaster at Rowland.	2 00
G. P. Bliss	Conveying dutiable goods from Post Office to Custom House, Winnipeg.	86 00
J. Sheppard	Conveying dutiable goods from Post Office to Custom House, Winnipeg.	7 00
Postmaster, Calgary	To pay for conveying dutiable goods from Post Office to Custom House, Calgary.	25 00
J. King	Services as laborer, Inspector's Office, Winnipeg.	402 50
W. S. Wallace	do do	114 00
Postmaster, Birtle	Arrears of salary and of rent allowance to 30th June, 1888.	120 00
do Brandon.	Compensation for Postage Stamps destroyed by fire at his office.	69 66
do Maple Creek	Arrears of rent to 30th June, 1888.	40 00
do Shell River.	do forward duty to 30th June, 1888.	20 00
do Sumner	do salary to 30th June, 1888.	4 00
J. Brown	do forward allowance as late P.M., Milford.	22 58
F. E. Harrison.	Removal expenses, Vancouver to Winnipeg.	58 50
	Total.	\$ 1,453 83

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

# PROVINCE OF BRITISH COLUMBIA.

DETAIL of all payments for Miscellaneous Disbursements, on account of the Post Office Department in British Columbia, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
E. H. Fletcher, P. O. I.	Incidental expenses, Post Office Inspector, Victoria.	25 87
J. C. Brown, P. M.	do Postmaster, New Westminster	44 00
N. Shakespeare, P. M.	do do Victoria	8 90
C. P. Telegraph Co.	Telegrams to and from Post Office Inspector, Victoria	90 85
Victoria and Esquimaux Telephone Co.	Rent of telephone at Post Office, Victoria (12 mos. to 30th June, '89).	48 00
Post Office Savings Bank.	Commissions to Postmasters upon Savings Bank business (12 months to 31st March, 1889).	232 33
Director of the International Postal Bureau.	Proportion of Postal Union expenses (12 months to 31st Dec., 1888).	9 76
J. Rooney.	Allowance while on special duty at Vancouver.	271 50
do	Expenses while in charge of Post Office, Kamloops.	30 00
J. Smith.	Services as messenger in Post Office Inspector's Office, Victoria.	130 00
J. Miller.	Conveying dutiable goods from Post Office to Custom House, Vancouver.	18 00
W. G. Winsor.	Conveying dutiable goods from Post Office to Custom House, Vancouver.	15 00
Duke, Jackson & Helmcker.	Legal services <i>in re</i> burglary of Post Office, Victoria.	13 00
A. Shaw, jr.	Expenses in connection with mail contract, Gabriola Island and Nanaimo.	2 50
Postmaster Illicillewaet.	Arrears of salary to 30th June, 1888.	25 00
F. E. Harrison.	Removal expenses, Winnipeg to Victoria.	79 00
do	Allowance for expenses while on duty in British Columbia.	188 50
Mrs. McLelan.	Gratuity of two months' salary owing to the death of her husband, D. S. McLelan, who was killed while doing duty as Railway Mail Clerk.	80 00
	Total.	\$1,312 21

WILLIAM WHITE,  
Deputy Postmaster-General.

W. H. SMITHSON,  
Accountant.

PROVINCE OF PRINCE EDWARD ISLAND.

DETAIL of all payments for Miscellaneous Disbursements, on account of the Post Office Department, in Prince Edward Island, made within the Year ended 30th June, 1889.

Name.	Particulars.	Amount.
		\$ cts.
F. de St. C. Brecken, P.M., and Asst. P.O.I.	Incidental expenses, Charlottetown .....	153 00
Anglo-American Tel. Co.	Telegrams to and from Postmaster and Asst. Post Office Inspector, Charlottetown .....	60 76
P.E. Island Telephone Co	Telephone message for Asst. Post Office Inspector, Charlottetown ..	0 20
Director of the Interna- tional Postal Bureau ..	Proportion of Postal Union expenses (12 mos. to 31st Dec., 1888)...	4 86
P.E. Island Telephone Co	Rent of Telephone at Post Office, Charlottetown (6 months to 31st December, 1888) .....	15 00
do do	Rent of Telephone at Post Office, Summerside (6 months to 31st December, 1888) .....	12 50
J. Grant .....	Special services in Post Office Charlottetown .....	133 34
J. D. Mason .....	do do .....	66 66
P.E.I. Navigation Co. ....	Expenses in connection with Prince Edward Island mails, Season 1888 .....	222 72
J. M. Campbell .....	Expenses while in charge of Post Office, Montague Bridge .....	10 00
Postmaster O'Leary Stn.	Arrears of forward duty to 30th June, 1888 .....	10 00
J. B. Allen .....	Services as telegraph operator at Cape Tormentine, Season 1889 ...	30 00
C. Muncey .....	Services as telegraph operator at Cape Traverse, Season 1889 .....	30 00
	Total .....	\$749 04

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*



## PROVINCE OF ONTARIO.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster at each Office respectively, during the Year ended 30th June, 1889.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Postmasters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	% cts.	\$ cts.	\$ cts.	\$ cts.
Aberfoyle	Wellington	191 15	151	1,230 20	10 35	744 94	3 19	60 00		
Acton	Halton	1,955 37	596	8,949 38	66 13	4,178 87	23 37	670 00		80 00
Ailsa Craig	Middlesex	963 96	387	5,070 52	41 16	2,933 22	14 85	458 00		40 00
Albion	Cardwell	1,239 31	380	10,709 65	67 23	3,171 26	27 06	384 00	36 00	40 00
Aldboro'	Elgin	77 94	24	487 65	3 31	42 61	1 25	32 00		
Alexandria	Glengarry	2,475 74	305	5,770 79	45 66	5,782 78	20 71	647 90	120 00	80 00
Algoma Mills.	Algoma	457 41	384	14,614 74	88 10	1,423 64	37 52	216 00		
Allandale	Simcoe	646 96	355	3,511 49	27 66	613 37	9 68	270 00	10 00	
Allenford	Bruce	409 06	255	5,171 56	33 25	599 76	13 28	150 00	12 00	
Allensville.	Muskoka & Parry Sound	185 39	245	2,511 63	18 02	819 86	7 61	60 00		
Alliston	Simcoe	2,287 68	602	7,041 32	51 58	4,286 43	19 43	720 00	8 00	120 00
Alma	Wellington	361 31	113	1,013 94	8 76	450 80	2 53	120 00		
Almonte.	Lanark	4,507 08	1,171	14,303 46	120 46	6,794 37	37 88	1,280 00	60 00	200 00
Alton	Cardwell	622 21	269	4,754 19	31 84	1,018 64	12 18	230 00		
Arvinston.	Lambton	1,458 67	544	8,865 12	64 03	2,569 81	23 07	480 00	80 00	60 00
Amherstburg.	Essex	2,000 30	1,188	16,426 13	125 24	4,622 31	44 78	700 00		
Ancaster	Brant	651 55	381	4,711 24	40 15	1,414 03	12 38	260 00		
Angus	Simcoe	683 53	67	1,538 82	10 31	990 83	4 30	235 00		
Appin.	Middlesex	441 56	280	4,831 50	33 95	600 41	12 50	156 00	12 00	
*Appleton	Lanark	36 90	10	130 76	0 83		0 17	40 00		
Arkona.	Lambton	1,082 29	667	11,031 78	79 97	2,799 21	28 86	357 00	4 00	40 00
Arkwright.	Bruce	188 15	86	1,151 66	8 71	273 83	3 16	80 00		
Arnprior	Renfrew	3,587 49	858	11,814 92	95 23	7,709 25	31 18	1,040 00	120 00	160 00
Arthur.	Wellington	1,949 15	549	9,050 33	63 51	5,594 26	25 22	556 00		80 00
*Ashworth	Simcoe	47 48	44	599 28	4 52	122 54	1 56	30 00		
*Athens	Leeds	1,693 68	259	3,653 42	30 67	2,535 12	11 17	415 00		64 00
*Auburn	Huron	273 40	103	1,353 67	9 46	143 92	3 63	90 00		
Aultaville.	Stormont	734 35	310	5,481 19	41 94	875 53	13 93	235 00	8 00	
Aurora.	York	2,497 28	606	8,138 78	62 41	13,417 84	24 23	660 00	36 00	120 00
Avening.	Simcoe	258 53	162	3,445 56	22 12	163 24	8 77	140 00		

Aylmer, West	Elgin	1,816	19,792 94	161 20	10,461 32	54 48	1,050 00	40 00	160 00
Ayr	Waterloo	1,048	10,857 79	84 97	26,570 21	28 42	290 00		119 99
Ayton	Grey	247	6,068 78	44 88	1,442 13	16 39	290 00		
Baden	Waterloo	122	1,649 73	14 48	285 69	4 13	128 33	16 67	
Baileboro'	Peterboro	177	2,990 38	23 67	672 18	7 98	100 00		
Bancroft	Hastings	613	16,777 31	99 23	1,237 05	42 48	110 00	12 00	
Barrie	Simcoe	2,027	26,662 78	226 94	27,225 85	74 47	2,600 00	160 00	
Bath	Lennox	265	6,076 99	40 85	1,689 14	16 63	250 00	50 00	
Bathurst Street (Toronto)	York	3,037	34,624 65	398 33	2,456 91	87 93	215 00		
Bayfield	Huron	610	10,490 19	69 38	1,470 37	26 84	114 00	12 00	
Baysville	Ontario	156	2,898 02	18 61	1,132 26	8 68	210 00	16 00	
Beachburg	Renfrew	49	1,487 75	9 96	1,092 81	4 03	147 00		
Beachville	Oxford	306	6,065 68	38 79	1,890 49	16 16	380 00	48 00	
Beamsville	Lincoln and Niagara	1,143	16,520 52	119 78	4,104 27	42 84	490 00		40 00
Beaverton	Ontario	408	8,000 62	56 65	4,573 58	10 52	400 00		60 00
Beeton	Simcoe	217	4,072 30	28 18	2,961 55	4 52	112 00		40 00
Bellhaven	York	92	1,804 51	12 62	78 62	4 26	180 00		
Belle River	Essex	66	1,472 69	10 89	1,102 94		56 00		
Belleville	Hastings	3,440	44,461 38	395 76	47,868 48	2 79	120 00		
Bell's Corners	Carlton	36	1,089 21	6 53	317 16	4 60	170 00		
†Belmont	Midlesex	96	1,843 25	11 99	1,062 88	20 30	175 00	16 00	
Belwood	Wellington	386	8,010 86	51 43	25,999 89	58 38	1,900 00	400 00	
Berlin	Waterloo	2,100	19,497 19	190 75	758 10	8 90	251 00		
Bethany	Durham	312	3,548 29	24 92	377 77	15 73	750 00	160 00	
Bleeker Street (Toronto)	York	596	6,288 03	66 02	4,520 30	28 62	170 00		120 00
Blenheim	Kent	1,028	10,890 48	89 30	1,246 98	6 87	450 00	36 00	60 00
Bluevale	Huron	95	2,514 38	14 61	3,547 75	19 37	480 00	48 00	
Blyth	do	616	7,094 19	55 23	2,377 35	37 51	170 00		
Bobaygeon	Victoria	540	14,804 08	93 01	360 98	3 77	630 00	80 00	80 00
Bondhead	York	1,423 13	1,444 93	10 23	5,105 74	32 69	1,360 00	160 00	240 00
Bothwell	Bothwell	953	12,262 27	94 30	12,260 27	39 46	880 00	100 00	80 00
Bowmanville	Durham	1,348	13,792 65	122 01	8,504 11	35 15	600 00		200 00
Bracebridge	Ontario	784	12,593 20	95 66	3,292 48	24 66	1,375 00	400 00	
Bradford	York	542	9,386 80	65 30	19,124 23	33 53	4,000 00	20 00	
Brantford	Peel	882	11,933 18	101 30	113,036 85	145 00	160 00	10 00	
Brantford	Brant	4,008	49,444 90	437 28	314 65	4 79	197 00	2 00	20 00
Brechin	Ontario	120	1,913 34	12 36	1,821 60	5 15	200 00		
Bridgewater	Hastings	90	1,280 48	8 66	1,479 51	12 47	720 00	150 00	120 00
†Brigden	Langton	117	1,386 28	10 90	530 36	3 49	200 00		
Bright	Oxford	331	4,946 84	35 82	5,559 38	23 20	480 00		
Brighton	do	956	7,924 84	62 71	45,567 27	114 68	3,400 00	480 00	
Brookton	York	322	4,181 40	36 97	496 50	1 54	252 00		
Brockville	Leeds	3,314	40,673 97	335 20	2,037 96	16 97	216 00	24 00	
Bronte	Halton	44	585 89	5 14	6,934 38	38 28	220 00	50 00	
Brooklin	Ontario	476	6,248 07	45 56	1,021 23	5 28	780 00	24 00	120 00
do	do	92	2,074 51	14 91	6,498 67	41 39			
Brougham	do	485	14,170 75	93 21					
Bruce Mines	Algoma	595 25	14,897 26	109 16					
Brussels	Huron	1,111							

† Salaries, &c., entered elsewhere.

‡ Late Farmersville.

\* Closed 31st December, 1889.

† Opened 1st January, 1889.

‡ Closed 31st August, 1888; re-opened 1st April, 1889.

## STATEMENT showing the Money Order Offices in Operation, &amp;c, in Ontario.—Continued.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Postmasters on M. O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Burford.....	Bruce	383 59	560	12,052 69	78 67	2,210 32	31 90	224 00	24 00	
Burk's Falls.....	Muskoka & Parry Sound	1,027 74	320	8,018 00	53 97	2,842 82	20 66	250 00	40 00	
Burlington.....	Haldimand	1,203 37	437	5,477 12	46 14	4,306 40	15 43	420 00	12 00	40 00
Byng Inlet, North	Muskoka & Parry Sound	1,192 71	260	8,898 32	53 51	1,153 88	22 24	66 00		
Caistorville.....	Wentworth	121 18	43	1,134 52	6 93	153 04	2 85	53 00		
Caletown.....	Cardwell	333 37	197	4,752 65	31 18	873 06	12 34	150 00		
Caledonia.....	Haldimand	1,371 13	587	10,588 10	71 95	3,582 32	27 33	530 00	50 00	60 00
Cambray.....	Victoria	357 48	101	2,467 99	16 60	1,018 01	6 33	155 00	10 00	
Canbyne.....	Leamington	438 10	100	1,420 30	11 92	1,024 55	3 78	152 00		
Campbellford.....	Northumberland	3,429 05	1,200	16,435 96	128 89	6,058 79	43 86	820 00		120 00
Campbellville.....	Haldimand	367 80	221	3,551 92	23 37	400 60	9 09	112 00		
Canfield.....	Haldimand	235 65	111	2,378 28	13 73	100 25	5 95	102 00	16 00	80 00
Cannington.....	Ontario	1,788 08	645	8,110 52	60 64	2,207 09	20 96	580 00	48 00	60 00
Cardinal.....	Grenville	1,235 68	398	7,325 10	57 02	1,100 44	4 91	136 00		
Cardell.....	Bruce	436 76	170	1,806 04	15 95	7,942 93	46 56	1,100 00		160 00
Carleton Place.....	Leamark	442 32	1,023	17,372 38	132 21	1,169 08	73 55	166 00		
Carleton Street (Toronto).....	York	2,143	2,143	29,000 59	315 73	1,017 24	11 64	410 00	50 00	40 00
Casleton.....	Northumberland	483 24	296	9,057 10	65 48	4,599 21	24 08	220 00		
Cayuga.....	Haldimand	1,402 05	666	9,940 65	9 07	468 43	2 43	211 00		40 00
Cedar Dale.....	Ontario	483 24	74	3,284 57	25 60	196 49	8 20	211 00		
Chapleau.....	Algoma	554 46	119	1,880 83	14 10	455 09	5 13	192 00	120 00	
Charing Cross.....	Algoma	633 10	105	37,834 78	346 72	38,814 76	113 08	3,260 00	240 00	
Chatham.....	do	13,595 30	3,318	7,526 74	51 75	5,263 24	22 47	280 00	54 00	
Chatsworth.....	Grey	677 00	412	9,365 59	74 16	8,046 53	24 83	630 00	8 00	120 00
Cheesley.....	Bruce	2,540 46	743	3,454 53	28 53	1,749 31	9 41	384 00	22 00	40 00
Chesterville.....	Dundas	1,348 20	156	1,679 82	12 69	1,788 77	5 00	355 00		40 00
Chippawa.....	Welland	632 41	111	2,110 78	14 13	742 00	5 37	108 00		
Clanville.....	Middlesex	245 24	124	5,528 40	35 01	1,867 99	14 55	216 00	24 00	
Clarendon.....	Ontario	375 87	184	2,296 22	15 03	898 26	6 56	120 00		
Clarence.....	Russell	389 42	65	2,174 96	13 14	560 92	5 84	136 00		
Clarke.....	Durham	413 80	113	8,500 27	60 22	6,329 63	25 61	278 00	48 00	
Clarkburg.....	Grey	732 15	430	5,507 97	34 87	860 34	14 13	75 00		
Clearville.....	Elgin	184 41	296	5,652 46	38 30	3,204 56	15 30	400 00	90 00	60 00
Clifford.....	Wellington	1,102 00	323	16,541 52	137 47	17,128 83	46 74	1,284 00	80 00	200 00
Clinton.....	Huron	4,748 59	1,038	2,255 00	14 54	695 88	5 63	340 00		40 00
Cobden.....	Renfrew	945 81	79	22,496 31	196 13	17,197 45	67 76	1,852 00	240 00	
Cobourg.....	Northumberland	6,936 38	1,941							

Colborne	2,537 13	1,173	13,031 75	101 12	15,136 31	34 23	648 00	240 00	120 00
Coldwater	967 99	519	8,822 51	60 35	1,624 25	23 78	312 00		
Colman	206 82	55	981 03	9 48	50	2 50	84 00		
Collingwood	5,991 09	1,784	21,696 30	166 45	34,729 68	66 25	1,476 00	280 00	240 00
Colpo's Bay	120 79	137	3,704 86	21 86	1,531 30	10 61	58 00	24 50	
Columbus	368 71	116	3,383 60	21 31	1,531 30	9 49	120 00		
Conestogo	243 03	121	1,635 78	13 16	462 82	4 26	84 00		
Consecon	465 21	279	3,636 05	26 28	1,229 37	9 49	192 00	12 00	
Princes Edward	938 31	171	4,660 16	31 46	1,212 02	11 84	360 00	12 00	40 00
Cookstown	312 64	63	2,103 67	15 28	579 91	5 82	114 00		
Cooksville	130 84	150	2,211 17	14 39	243 85	5 32	51 00		
Corinth	8,000 90	1,772	25,741 34	211 01	20,126 24	74 14	1,350 00	120 00	
Corunna	250 75	184	2,894 15	21 71	993 36	8 87	96 00		
Lambton	267	267	4,772 75	34 13	3,862 27	15 19	237 00	24 00	
Courtright	650 30	27	597 66	3 67	459 65	1 49	72 00		
Craighurst	176 50	244	8,545 66	39 51	1,703 77	21 82	220 00		
Crediton	665 31	813	18,517 24	112 82	3,081 24	46 87	370 00		40 00
Creemore	1,195 35	193	13,853 33	79 46	4,022 44	39 77	140 00		
Crysler	394 47	234	4,395 85	31 13	2,171 13	14 81	108 00		
Cumberland	31 12				25 00		8 50		
Deemerton	525 43	350	6,228 04	44 83	1,576 34	16 73	212 00		
Delaware	1,165 66	674	9,605 10	69 63	2,865 90	24 92	352 00	32 00	40 00
Delhi	786 09	179	4,316 03	32 58	872 15	11 42	230 00		
Delta	270 40	394	8,277 69	51 40	866 70	21 81	80 00		
Deerboro'	4,293 44	950	11,206 55	93 86	4,669 14	29 63	1,040 00		160 00
Hastings	425 41	101	2,247 55	15 86	488 36	5 81	136 00		
Stornont	449 15	201	2,792 85	22 88	1,669 32	7 25	190 00	80 00	
Middlesex	1,556 62	300	3,903 75	29 03	4,171 70	10 21	490 00	16 00	60 00
Wellington	2,296 31	1,220	22,584 36	164 84	5,065 24	58 59	660 00	24 00	120 00
Bothwell	776 81	372	5,457 09	41 48	1,845 71	14 25	280 00	16 00	
Brant	326 98	175	1,633 48	13 03	530 14	4 16	150 00		
Elgin	409 59	72	2,756 04	17 18	965 06	9 78	300 00	32 00	
Perth	177 21	19	369 00	3 00	196 60	0 82	70 00		
Ontario	422 64	218	6,480 64	39 88	372 98	16 30	90 00	10 00	
Muskoka & Parry Sound	398 40	63	1,454 86	9 49	470 74	3 66	112 50	4 00	15 00
Dundas	4,014 36	1,360	15,822 50	139 89	12,278 98	46 52	1,170 00	120 00	
Wentworth		817	9,527 20	97 33	635 68	24 18			
York	462 66	309	11,155 82	68 68	1,462 09	28 61	192 00		
Huron	3,046 20	1,221	15,980 26	122 11	7,899 24	43 15	848 00	72 00	120 00
Monck	267 91	130	2,033 24	15 27	820 16	6 44	100 00		
Glengarry	2,150 57	870	15,247 74	103 28	7,752 36	40 75	672 00	110 00	100 00
Durham	1,328 12	507	9,270 53	61 31	2,034 79	23 92	430 00		
Elgin	217 43	11	77 32	1 05	247 17	0 51	97 00		
Suncoo	1,263 01	241	8,682 08	59 55	2,411 10	2257	500 00	60 00	40 00
Renfrew	42 98	4	20 17	0 19	45 07	0 05	25 00		
Huron	1,056 30	338	5,622 86	44 34	2,041 45	15 03	320 00		40 00
Waterloo	635 40	134	3,126 26	21 94	1,362 70	8 45	196 00	20 00	
Brace	2,386 03	1,146	13,142 75	100 54	7,613 80	24 81	636 00	100 00	120 00
Wellington	869 01	382	7,425 07	55 05	3,537 19	19 91	320 00	50 00	
Oxford									
Embu									

\*Salary, &c., entered elsewhere.

§ Opened 1st April, 1889.

† Closed 30th June, 1889.

\* Opened 1st April, 1889.

† Closed 1st October, 1889.

§ Opened 1st October, 1889.

† Closed 1st January, 1890.

STATEMENT showing the Money Order Offices in operation &amp;c., in Ontario.—Continued.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation Paid to Postmasters on M. O. Business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ensdale.	Muskoka & Parry Sound	551 74	103	2,122 29	16 77	2,254 35	6 88	132 00	16 00	
Erin.	Wellington.	1,250 38	421	10,089 63	67 36	3,364 72	28 61	356 00	12 00	40 00
Essex Centre.	Essex.	3,539 85	1,212	16,594 25	122 09	7,162 41	48 65	848 00	160 00	160 00
Exeter.	Middlesex.	2,406 56	1,158	13,597 66	108 21	11,159 48	36 92	700 00	84 00	120 00
Fenelon Falls.	Victoria.	1,843 41	501	9,066 06	61 55	4,849 17	25 03	520 00	6 00	60 00
Fergus.	Wellington.	2,837 68	1,189	15,837 45	114 32	9,538 60	42 91	820 00	180 00	120 00
Fingal.	Elgin.	865 00	267	3,101 46	36 14	2,961 69	13 08	306 00		20 00
Fisherville.	Haldimand.	223 18	80	3,878 41	24 00	1,214 82	9 74	72 00		
Flesherton.	Grey.	1,102 56	523	13,186 62	81 70	2,574 63	34 15	400 00	70 00	40 00
Florence.	Middlesex.	700 09	442	6,920 70	49 78	2,703 28	18 78	285 00		
Fonthill.	Welland	535 87	187	2,399 30	20 95	1,626 95	7 02	200 00		
Fortwich.	Huron.	586 64	201	8,372 03	50 21	610 87	20 94	230 00	16 00	120 00
Forest.	Lambton.	2,707 64	1,051	9,123 18	79 37	7,437 30	27 88	768 00	16 00	40 01
Fort Erie.	Welland	932 84	487	5,176 49	39 23	3,888 54	15 11	346 00		40 00
Fort William, West.	Algoma.	992 01	1,026	22,554 90	178 37	3,812 24	58 66	300 00		
Frankford.	Hastings	646 22	239	5,781 66	38 29	814 25	15 03	210 00		
Freelton.	Wentworth.	212 00	120	2,339 86	15 45	1,522 83	5 96	90 00	8 00	
*Freeman	Halt.	183 56	98	1,630 78	11 14	143 25	4 08	105 00		
Galt.	Waterloo.	10,803 20	3,101	30,958 56	279 27	40,475 29	87 38	2,700 00	60 00	
Gananoque.	Leeds	4,985 79	1,631	17,986 94	156 42	11,920 76	47 92	1,260 00	24 00	240 00
Georgetown.	Halt.	3,027 35	1,179	15,076 60	121 10	7,366 42	41 27	816 00	108 00	120 00
Glenora.	Bruce	388 36	125	2,097 91	14 39	589 30	5 83	130 00		
Glenallan.	Wellington.	439 07	267	5,208 97	33 32	1,339 40	13 44	155 00		
Glenora.	Middlesex	2,374 55	954	16,701 91	119 91	5,132 02	42 98	720 00	18 00	120 00
Goderich.	Huron	5,508 38	2,190	29,887 02	239 53	17,534 85	84 37	1,700 00	160 00	280 00
Gore Bay	Algoma.	733 01	244	9,526 73	63 39	3,554 54	24 96	300 00		
Gorrie.	Huron	776 31	292	5,227 00	34 34	2,924 61	13 84	288 00		
Grafton.	Northumberland	882 86	203	3,698 63	26 14	2,584 68	9 90	260 00	30 00	
Grand Valley.	Wellington.	1,052 76	367	5,354 45	37 27	2,617 74	13 74	332 00	16 00	40 00
Granton.	Middlesex	586 87	182	2,757 03	19 78	1,745 05	7 36	210 00	32 00	160 00
Gravenhurst.	Simcoe.	3,328 81	630	8,746 00	68 03	5,183 39	24 80	790 00		
Greenwood.	Ontario.	221 95	132	3,048 37	18 36	969 53	7 83	500 00		
Grimsby.	Wentworth.	1,995 63	579	11,432 28	80 88	9,479 87	31 60	180 00	60 00	80 00
Guelph.	Wellington	18,343 63	4,582	62,313 27	511 58	67,017 33	179 86	4,600 00	400 00	60 00
Hagersville.	Haldimand	1,740 37	574	8,837 25	65 76	3,589 24	23 36	500 00		
Halliburton.	Peterboro'	679 93	260	3,440 83	26 03	2,323 93	10 78	282 00	12 00	
Hamilton	Wentworth.	71,982 35	11,191	138,512 91	1,394 30	319,604 23				

Hampton.....	Durham.....	443 17	241	4,777 80	30 75	685 05	12 02	124 00	
Hanover.....	Grey.....	1,773 76	456	6,494 12	52 70	5,668 72	17 56	546 00	80 00
Hastings.....	Wellington.....	2,973 65	830	11,699 19	87 97	8,565 35	31 18	940 00	160 00
Hastings.....	Northumberland.....	1,670 08	217	4,385 85	32 38	2,075 26	11 44	500 00	60 00
Havelock.....	Peterboro'.....	600 83	102	1,962 21	15 02	778 08	5 15	144 00	28 00
Hawkesbury.....	Prescott.....	1,199 73	299	7,208 06	55 26	4,062 11	21 83	410 00	40 00
Hawkesville.....	Waterloo.....	384 90	252	4,399 55	29 11	1,355 70	11 51	150 00	20 00
Hensall.....	Huron.....	855 06	607	11,031 31	72 71	1,956 42	27 96	276 00	16 00
+Hepworth.....	Grey.....	189 84	68	1,292 84	8 37	237 34	3 33	54 00	
Hesper.....	Waterloo.....	2,017 42	675	8,506 41	71 61	4,149 38	23 60	540 00	80 00
Highgate.....	Elgin.....	755 90	170	2,348 96	18 55	783 48	6 06	240 00	
Highland Creek.....	York.....	142 10	43	966 86	6 60	176 78	2 58	50 00	
Hillsburgh.....	Wellington.....	573 51	186	4,149 95	27 69	1,125 47	10 75	220 00	
Hillsdale.....	Simcoe.....	380 20	167	2,872 34	19 45	183 70	7 23	200 00	24 00
Holland Landing.....	York.....	226 22	35	551 70	4 39	733 93	1 47	100 00	
Hollen.....	Wellington.....	273 19	69	1,126 02	7 68	329 00	2 86	119 00	
+Hoodtown.....	Muskoka & Parry Sound.....	20 35	20	273 10	1 86	227 97	0 77	16 00	
Hornings Mills.....	Grey.....	445 49	154	3,484 27	24 53	1,365 89	9 12	186 00	
Humberstone.....	Welland.....	872 80	78	1,288 83	9 39	485 49	3 40	335 00	40 00
Huntsville.....	Muskoka & Parry Sound.....	2,622 56	539	10,908 20	75 91	8,334 17	34 87	640 00	100 00
Ingersoll.....	Oxford.....	9,103 61	2,600	27,786 16	233 89	44,368 65	75 41	2,200 00	360 00
Innerkip.....	do.....	332 83	78	1,458 33	12 61	297 18	3 68	120 00	
International Bridge.....	Welland.....	715 84	341	5,694 81	39 57	492 79	14 35	239 00	
Invermay.....	Bruce.....	222 64	151	3,410 27	23 70	2,092 05	8 78	110 00	
Iona.....	Elgin.....	261 34	142	1,703 25	12 18	298 36	4 26	102 00	
Iroquois.....	Dundas.....	2,903 12	436	5,880 21	45 06	4,833 61	16 30	612 00	100 00
James St. (Hamilton).....	Wentworth.....	1,227 90	816	9,391 74	107 47	55 35	23 53	420 00	40 00
Jordan.....	Lincoln and Niagara.....	199 97	242	3,692 01	29 33	3,233 18	10 06	69 00	
Keene.....	Peterboro'.....	417 10	225	2,415 11	21 35	394 88	6 83	126 00	
Kemptville.....	Leeds and Greenville.....	1,525 56	1,268	4,382 18	28 44	893 69	11 13	126 00	
Kettleby.....	York.....	237 95	164	25,027 24	172 62	8,011 35	73 97	534 00	80 00
Kimberley.....	Grey.....	196 15	93	1,936 47	14 67	554 68	4 87	90 00	
Kincardine.....	Bruce.....	4,015 58	952	13,676 68	105 64	1,550 93	8 03	70 00	
King.....	York.....	644 58	86	1,220 30	8 71	16,690 29	43 19	1,040 00	160 00
Kingston.....	Frontenac.....	23,574 78	5,493	62,234 10	598 49	1,114 39	3 49	180 00	
Kingsville.....	Essex.....	1,375 07	479	6,756 12	58 68	93,642 58	19 03	400 00	40 00
Kinnouit.....	Victoria.....	983 54	255	5,139 92	36 87	3,994 06	13 90	312 00	30 00
Kippen.....	Huron.....	259 11	78	1,395 46	9 93	1,889 77	3 52	105 00	20 00
Kirkfield.....	Victoria.....	496 11	20	693 55	5 14	370 00	2 80	160 00	
Kleinburg.....	York.....	248 34	141	2,272 04	16 24	1,500 00	5 74	114 00	
Klock's Mills.....	Nipissing.....	367 39	68	1,305 28	9 72	716 18	3 25	100 00	
Konoka.....	Midlesex.....	270 31	97	1,437 89	10 52	593 05	3 94	95 00	
Lakefield.....	Peterboro'.....	1,571 77	600	9,508 14	70 24	3,079 96	26 03	624 00	20 00
Lakeport.....	Northumberland.....	205 51	83	1,115 39	8 34	216 60	2 80	100 00	
L'Amable.....	Hastings.....	191 42	196	6,228 97	35 69	445 89	15 56	80 00	
Lambton Mills.....	York.....	355 86	449	1,310 21	12 93	1,010 97	3 38	130 00	
Lanark.....	Lanark.....	1,227 16	641	11,511 85	79 55	2,266 01	29 29	360 00	40 00
Lancaster.....	Glengarry.....	1,570 60	598	10,185 55	78 43	3,265 49	27 21	514 00	60 00
Lansdowne.....	Leeds.....	812 78	111	3,488 27	22 30	1,415 23	9 52	282 00	24 00

Saleries, &c., entered elsewhere.

+ Closed 31st December, 1888.

+ Opened 1st April, 1889.

\* Opened 1st October, 1888.

STATEMENT showing the Money Order Offices in operation, &amp;c., in Ontario—Continued.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Post-masters on M. O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Leamington.....	Essex.	2,453 70	1,362	20,961 48	158 45	5,104 03	54 83	530 00	60 00	80 00
Lefroy.....	Simcoe.	325 81	125	1,472 37	15 37	993 30	4 18	117 00	16 00	
Lindsay.....	Victoria.	8,062 07	1,680	19,891 00	167 35	26,954 31	59 20	2,100 00	200 00	350 00
Listowel.....	Perth.	4,348 76	1,599	16,819 26	136 65	17,167 52	47 96	1,200 00	120 00	200 00
Little Britain.....	Victoria.	848 86	133	4,749 85	29 57	629 15	12 00	240 00	10 00	
Little Current.....	Algonia.	928 85	592	19,402 93	123 78	3,234 71	48 68	334 00		
Lloydtown.....	York.	252 12	92	1,281 63	8 51	637 83	3 26	100 00		
London.....	Middlesex.	51,500 02	6,167	89,048 48	825 20	358,081 44		470 00		60 00
London, East.....	do	1,508 81	938	10,319 11	98 78	3,800 29	29 55	90 00		
*London, West.....	do	214 09	46	448 73	3 94	402 67	1 77	380 00	48 00	40 00
L'Original.....	Prescott.	981 84	351	10,909 85	85 97	4,443 64	29 18	400 00	160 00	80 00
L'Original.....	Middlesex.	1,408 39	384	4,513 21	38 36	4,260 21	12 49	685 00	40 00	120 00
Lucan.....	Bruce.	2,295 37	1,079	20,218 28	145 88	9,373 69	55 53	270 00		
Lyn.....	Leeds.	758 11	259	3,428 40	29 31	1,031 16	9 38	156 00		
Lyn.....	Wentworth.	403 05	120	3,961 70	24 94	833 90	9 94	180 00	32 00	
Lynedoch.....	Norfolk.	574 00	314	5,719 29	40 90	1,276 95	14 41	660 00		119 50
Magdoc.....	Hastings.	2,443 90	773	9,943 05	78 98	7,709 96	26 41	168 00	36 00	
Magnetawan.....	Muskoka & Parry Sound.	325 51	169	2,111 96	14 65	2,366 67	7 75	272 00	48 00	
Manilla.....	Victoria.	452 48	66	844 86	6 30	970 18	2 48	209 00		
Manitowaning.....	Algonia.	792 41	682	22,426 75	137 59	5,991 14	57 19	272 00		
Manotick.....	Carleton.	517 53	288	10,853 04	64 57	1,159 12	27 46	120 00	24 00	60 00
Maple.....	York.	350 99	91	1,747 93	11 08	1,885 20	4 60	520 00	90 00	80 00
Markdale.....	Grey.	1,694 03	503	11,153 75	72 60	4,062 07	29 31	324 00	12 00	40 00
Markham.....	York.	1,801 75	539	9,356 95	70 17	12,591 12	36 30	720 00	80 00	120 00
Marmora.....	Hastings.	894 40	235	3,112 67	22 82	1,419 98	8 93	100 00		
Mattawa.....	Nipissing.	2,292 59	386	12,646 73	79 37	2,338 34	33 11	100 00		
Maxwell.....	Grey.	341 36	363	9,180 89	57 30	1,593 90	23 14	80 00		
Meadowdale.....	Peel.	215 44	114	2,167 59	16 13	670 77	5 50	948 00	3 00	160 00
Meaford.....	Grey.	3,251 30	1,899	23,491 84	169 12	21,750 57	64 90	156 00	48 00	40 00
Meibourne.....	Middlesex.	501 93	148	3,671 11	24 70	1,107 09	9 52	340 00		
Merrickville.....	Leeds and Grenville.	1,522 19	398	8,964 21	61 51	4,824 05	25 26	500 00	40 00	
Merriton.....	Lincoln and Niagara.	1,064 74	592	7,144 96	59 71	2,653 38	17 20	340 00		
Metcalfe.....	Russell.	650 20	187	6,204 48	37 85	1,583 50	16 97	220 00		
Middleville.....	Lennox.	186 73	113	980 71	8 69	373 55	2 45	73 00		
Midland.....	Simcoe.	2,347 27	900	13,391 09	96 77	8,027 98	33 41	656 00	20 00	100 00
Midway.....	Bruce.	1,030 22	336	5,975 43	40 29	2,080 66	15 74	370 00	12 00	40 00
Millbank.....	Perth.	401 38	317	5,138 53	36 80	845 40	13 29	160 00		

Millbrook	1,885 39	6,845 10	32 55	4,348 56	19 98	600 00	96 00	80 00
Mille Roches	389 04	3,706 42	28 84	491 70	9 48	90 00		
Milton, West	2,391 00	15,613 97	119 44	9,378 16	42 48	700 00	48 00	120 00
Milverton	250	5,104 23	33 37	2,086 03	13 83	260 00		
Minden	804 43	7,461 33	53 17	2,984 73	20 11	312 00	12 00	
Victoria	375	18,381 00	134 87	9,771 17	53 53	990 00	60 00	160 00
Perth	1,116	554 75	5 84	421 96	1 46	180 00		
Brant	3,539 51	1,146 19	8 26	788 58	2 99	120 00	20 00	
Mohawk	263 86	1,262 14	10 87	890 47	4 27	144 00		
Mono Mills	40	3,577 56	25 13	162 21	8 93	235 00	12 00	
Moore	490 45	18,851 68	133 68	1,003 02	9 25	188 00		
Moorefield	469 04	5,039 52	33 33	9,526 45	50 15	1,100 00	240 00	180 00
Morpeth	1,430	10,348 32	65 12	1,225 39	12 75	100 00	12 00	
Morrisburg	288 43	6,126 41	45 47	2,428 92	26 41	200 00	6 00	
Morrison	249	1,936 84	14 58	787 45	15 53	180 00		
Mount Albert	658 92	28,606 95	202 17	19,655 39	83 97	1,000 00	80 00	160 00
Mount Brydges	420	2,759 58	17 64	418 09	7 33	80 00		
Mount Elgin	257 21	20,546 94	174 44	17,506 41	61 02	1,800 00	160 00	280 00
Mount Forest	3,716 98	1,906 13	9 47	611 67	4 13	100 00		
Nanticoke	195 93	5,080 17	35 45	1,198 40	13 34	90 00	8 00	
Napanee	6,536 40	3,844 31	32 39	925 31	9 65	70 00		
Napier	286 80	2,908 97	27 08	990 38	7 84	240 00	6 00	
Nassagaweya	349 77	7,780 58	51 56	2,110 42	19 66	348 00	64 00	40 00
Nepigon	579 25	4,031 49	29 77	1,285 31	10 45	240 00	12 00	
Newboro	887 12	4,237 05	34 26	851 58	11 21	244 00	6 00	
Newburgh	780 98	13,300 33	86 52	3,512 30	34 34	460 00	72 00	60 00
Newcastle	650 31	2,800 83	13 95	1,170 12	5 77	300 00		
New Dundee	1,222 48	2,927 24	22 91	707 18	7 85	180 00		
New Edinburgh	1,288 36	3,018 00	20 58	628 98	7 55	52 00		
Russell	475 50	6,640 96	53 07	5,009 76	600 00	24 00	24 00	100 00
New Germany	110 01	13,807 56	113 81	10,738 76	38 60	920 00	120 00	160 00
New Hamburg	3,551 03	11,793 03	97 92	6,108 80	31 78	600 00	72 00	110 00
Newmarket	1,249	11,771 51	102 81	9,613 03	37 03	1,488 00	200 00	
Niagara Falls	1,887 81	14,579 14	107 99	4,940 61	40 25	580 00		
Niagara Falls, South	4,038 93	3,289 87	20 73	864 27	8 66	77 00	4 00	60 00
Nobleton	1,312 41	427 19	3 42	424 34	1 21	110 00		
Norland	217 09	5,338 83	32 11	1,539 16	15 55	140 00		
Norfolk	217 09	12,851 39	91 31	4,098 95	32 83	630 00		
North Augusta	444 21	5,750 58	36 87	2,137 83	15 00	216 00	7 00	120 00
North Bay	2,555 13	1,790 79	12 63	507 10	5 08	130 00		
North Gower	535 08	2,544 07	17 92	1,313 97	6 81	160 00		
North Port	228 57	19,793 10	153 41	7,041 88	52 50	710 00	48 00	80 00
Norval	441 25	7,787 22	55 10	3,881 60	3 37	52 00	24 00	
Norwich	2,382 55	1,302 17	8 41	6,797 16	43 11	660 00	32 00	120 00
Norwood	2,102 41	15,738 28	32 24	956 07	11 86	196 00		
Oakland	121 79	4,752 23	32 24	3,871 87	9 06	200 00	72 00	40 00
Oakville	2,256 71	3,363 88	23 01	1,723 80	30 47	400 00	16 00	
Oakwood	434 11	7,854 74	56 83					
Odessa	504 28	11,973 48	76 40					
Oil Springs	207							
Omeunee	1,178 70							
Ontonario	1,165 61							

+ Salaries, &c., entered elsewhere.

+ Late Red Rock.

+ Late Petersville.



STATEMENT showing the Money Order Offices in Operation, &amp;c., in Ontario.—Continued.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Post-masters on M. O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Orangeville.....	Wellington.....	4,989 72	1,203	16,892 57	124 33	12,750 78	46 18	1,230 00	72 00	300 00
Orillia.....	Simcoe.....	8,461 84	1,851	22,493 44	191 57	25,790 50	65 80	1,860 00	150 00	40 00
Orono.....	Durham.....	1,128 47	458	9,154 79	64 78	2,867 92	24 04	400 00	6 00	
Orwell.....	Elgin.....	102 35	37	885 84	5 83		2 07	46 00		
Ossola.....	Renfrew.....	444 74	53	1,799 45	10 96	494 32	4 97	138 00	8 00	
Oshawa.....	Ontario.....	5,448 11	1,495	16,632 98	144 45	29,816 88	48 02	1,500 00		240 00
Ottawa.....	Carleton.....	47,503 01	10,456	196,540 60	1,722 57	143,656 97		320 00		40 00
Otterville.....	Oxford.....	1,174 45	248	2,668 42	21 85	2,044 30	7 22	2,000 00	265 00	280 00
Owen Sound.....	Grey.....	8,955 89	4,141	55,038 58	449 31	43,298 86	153 08	800 00	90 00	140 00
Paisley.....	Paisley.....	2,874 40	516	6,329 19	47 95	9,086 26	17 31	420 00	24 00	40 00
Pakenham.....	Halark.....	1,307 35	298	10,428 86	65 08	1,514 65	26 93	80 00		
Palerno.....	Halton.....	194 27	220	3,574 81	24 97	617 63	9 18	680 00	80 00	120 00
Palmerston.....	Wellington.....	1,925 12	780	12,543 45	90 18	5,187 05	32 92	1,350 00	80 00	200 00
Paris.....	Brant.....	4,022 77	1,242	13,208 38	115 33	12,661 23	38 47	1,320 00	10 00	40 00
*Paris Station.....	do.....	795 48	62	730 13	7 05	21 25	1 82	182 00		160 00
Parkdale.....	York.....	3,916 60	1,370	16,598 09	161 47	9,861 10	48 83	720 00	140 00	160 00
Park Hill.....	Middlesex.....	2,918 44	686	7,520 01	62 37	7,297 53	22 44	850 00	100 00	60 00
Parry Sound.....	Muskoka & Parry Sound.....	1,505 46	1,674	38,695 38	255 10	5,851 19	99 26	500 00		
Pelee Island.....	Essex.....	249 31	257	6,547 12	45 19	4,001 97	16 94	84 00		
Pembroke.....	Renfrew.....	6,569 54	1,859	27,386 31	214 28	13,587 46	72 02	1,600 00	220 00	240 00
Penetanguishene.....	Simcoe.....	6,631 28	613	8,631 28	64 30	5,017 09	25 32	624 00	14 00	100 00
Perth.....	Lenark.....	5,422 73	1,268	14,151 24	127 88	13,220 98	40 32	1,500 00	240 00	200 00
Peterboro'.....	Peterboro'.....	14,422 85	3,923	44,819 42	390 35	41,397 32	128 23	3,650 00	300 00	
Peter Street (Toronto).....	York.....	5,960 49	1,672	20,198 95	219 22	591 55	50 94			
Petrolia.....	Lambton.....	573 37	2,188	23,682 40	193 98	12,135 21	67 41	1,480 00	15 00	400 00
Phelpston.....	Simcoe.....	757 60	68	889 66	6 38	615 71	2 60	120 00	14 00	
Pickering.....	Ontario.....	5,501 80	246	4,206 41	29 12	1,522 80	10 94	340 00		40 00
Pictou.....	Prince Edward.....	5,501 80	2,022	18,278 67	164 80	16,033 25	56 64	1,300 00	300 00	240 00
Plattsburgh.....	Prescott.....	781 50	163	6,733 48	39 51	3,082 75	18 27	240 00	40 00	
Plattsburgh.....	Brant.....	832 72	225	3,307 49	24 74	2,144 47	9 08	360 00		40 00
Plevna.....	Lambton.....	220 25	55	796 39	6 01	242 94	2 15	30 00		
Point Edward.....	Adington.....	931 77	501	8,215 97	70 44	2,080 43	22 13	410 00		50 00
Port Arthur.....	Algoma.....	5,669 10	3,375	61,721 48	532 76	13,248 16	161 25	2,266 66	116 66	400 00
Port Burwell.....	Elgin.....	8,065 74	330	8,065 24	52 33	2,382 79	22 04	280 00	72 00	
Port Carling.....	Simcoe.....	390 41	122	1,965 20	13 48	2,382 51	5 50	170 00	8 00	
Port Colborne.....	Welland.....	1,974 31	468	6,315 09	50 03	5,618 63	19 25	540 00	60 00	80 00
Port Dalhousie.....	Lincoln and Niagara.....	653 27	271	5,963 83	41 67	2,291 74	15 64	250 00		



## STATEMENT showing the Money Order Offices in operation, &amp;c., in Ontario—Continued.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation Paid to Post-masters on M.O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Shakespeare.	Oxford.	568 34	187	3,589 99	25 79	1,826 37	9 99	200 00		
Shannonville.	Hastings.	509 47	237	4,933 30	31 66	560 80	12 86	195 00	24 00	
Sharon.	York.	187 46	41	359 99	3 28	398 42	0 91	72 00		
Shelburne.	Grey.	2,577 79	868	16,358 81	108 21	7,103 17	42 70	630 00	36 00	120 00
Simcoe.	Norfolk.	5,016 90	1,403	16,477 39	139 67	16,671 87	47 80	1,440 00	300 00	210 00
Singhampton.	Simcoe.	321 90	197	5,941 59	35 73	2,149 55	16 12	120 00	36 00	
Smith's Falls.	Leeds and Grenville.	1,073	17	17,532 65	146 24	19,185 75	46 83	1,480 00	50 00	240 00
Smithville.	Wentworth.	6,145 50	1,073	30,372 18	200 97	4,384 86	77 04	350 00	8 00	40 00
Sombra.	Bothwell.	926 77	1,564	7,049 72	46 67	1,364 97	18 42	100 00	24 00	
*South Woodlee.	Essex.	285 94	328	2,235 18	1 45		0 59	37 50		
Spadina Avenue (Toronto).	York.	172 81	22	28,561 73	314 97	3,670 59	74 17	152 00		
Sparta.	Elgin.	321 36	149	2,448 92	16 71	975 88	6 55	160 00		
Spencerville.	Grenville.	489 84	517	9,938 30	67 34	1,378 65	26 23	250 00	20 00	
Springfield.	Middlesex.	675 18	467	6,989 34	48 94	1,051 39	17 89	114 00		
*Springfield on-the-Credit.	Peel.	245 44	35	1,233 11	9 36	298 79	3 37	90 00		
Springford.	Oxford.	277 01	34	404 20	4 03	966 56	1 32	114 00		
Stayner.	Simcoe.	2,154 68	1,102	14,860 04	106 45	7,877 30	39 08	630 00	10 00	80 00
Stella.	Lennox.	272 96	93	2,447 70	17 20	545 25	7 23	96 00		
Stevensville.	Welland.	213 17	447	4,566 35	31 62	105 73	11 49	136 00		
Stirling.	Hastings.	1,362 60	558	8,812 04	64 30	2,449 32	24 08	440 00	32 00	40 00
Stirton.	Wellington.	93 03	46	770 80	4 91	182 73	1 92	48 00		
Stony Creek.	Wentworth.	292 70	79	2,426 10	19 52	418 20	6 10	90 00	32 00	
Stouffville.	Ontario.	1,769 96	489	8,914 18	64 74	4,384 11	24 67	460 00	80 00	60 00
Strabane.	Perth.	160 35	105	2,267 93	14 61	145 49	5 73	46 00		
Stratford.	Wentworth.	10,617 58	2,652	30,064 09	271 12	31,523 55	91 12	2,960 00	166 00	
Strathroy.	Middlesex.	4,878 29	1,956	20,349 78	164 94	14,408 93	56 27	1,360 00	72 00	210 00
Streetsville.	Peel.	1,100 92	598	10,395 82	72 15	3,543 98	26 85	400 00		40 00
Sturgeon Falls.	Nipissing.	779 95	71	1,544 09	9 81	1,108 33	4 14	240 00		
Sudbury.	Algonia.	2,244 77	1,093	37,014 29	281 95	3,729 15	93 56	440 00	120 00	60 00
Sunderland.	Ontario.	912 37	56	977 14	7 24	1,874 94	3 39	320 00	16 00	40 00
Sutton West.	York.	1,024 73	691	21,080 67	131 97	2,648 78	54 31	400 00	30 00	40 00
Sydenham.	Addington.	490 49	267	7,289 52	47 15	1,143 31	19 04	170 00	12 00	
Tamworth.	do	1,188 07	282	5,307 41	39 86	2,335 35	14 98	372 00	28 00	40 00
Tavistock.	Oxford.	1,059 36	347	3,429 88	33 76	2,027 60	9 20	340 00	40 00	
Teeswater.	Bruce.	1,795 84	641	13,734 07	95 13	5,179 62	35 40	500 00		60 00
Thamesford.	Oxford.	518 28	316	3,644 44	27 20	968 78	9 34	210 00		
Thamesville.	Bothwell.	1,650 79	563	11,431 19	80 16	1,948 66	29 14	600 00	16 00	120 00

Thedford	439	1,105 32	5,709 98	45 08	2,071 30	15 37	400 00	20 00	40 00
Thomastown	159	186 86	3,545 29	23 41	161 34	8 86	65 00		
Thornbury	498	1,313 94	7,558 05	53 36	4,786 55	21 44	410 00		40 00
Thornhale	110	391 63	2,839 95	19 56	509 50	7 34	132 00	12 00	
Thornhill	38	1,328 82	2,615 36	4 97	1,702 89	7 75	300 00	32 00	
Thornton	1,056	452 27	703 50	100 51	398 78	2 10	144 00	14 00	140 00
Welland	478	3,661 88	11,314 27	58 43	10,690 63	39 35	960 00		60 00
Essex	1,523 69	1,523 69	8,323 35	128 72	2,068 19	21 71	400 00	6 00	60 00
Tilbury Centre	1,344	4,346 57	16,542 72	48 56	12,961 81	45 86	1,040 00	360 00	160 00
Norfolk	387	1,061 21	6,748 47	3,018 65	3,869 84	18 47	340 00	8 00	40 00
Tiverton	25,758	318,741 21	301,285 44	45 51	1,371,282 42	17 43	400 00	40 00	40 00
Toronto	392	1,254 80	6,830 65	129 46	2,458 69	42 98	1,260 00	200 00	200 00
Tottenham	1,177	5,187 60	15,549 73	8 99	10,161 37	3 49	40 00		
Trenton	53	73 20	1,276 18	44 72	712 00	17 39	360 00	20 00	40 00
Tullamore	429	1,158 22	6,307 49	46 05	2,492 70	19 50	160 00		
Tweed	354	317 71	7,216 66	8 39	363 02	2 84	108 00		
Underwood	62	271 01	1,087 16	19 51	2,259 01	6 17	200 00	80 00	
Union	172	631 36	2,391 34	114 46	8,572 55	23 81	200 00	32 00	160 00
Unionville	929	3,771 80	15,273 72	45 99	6,834 90	20 11	1,050 00	24 00	60 00
Uxbridge	299	1,630 78	5,485 42	20 07	8,683 11	7 76	480 00		
Vankleek Hill	156	316 05	2,972 60	16 47	863 11	6 19	132 00		
Varna	133	479 85	2,195 07	96 82	818 71	13 65	156 00	4 00	
Victoria Harbour	681	14,590 40	14,590 40	59 41	1,935 92	21 26	178 00	16 00	
Vienna	428 93	437 87	8,224 55	5 27	1,549 95	2 22	210 00	120 00	
Wales	29	543 63	710 89	163 42	12,442 90	57 68	1,380 00	200 00	240 00
Walcott	1,707	4,859 79	21,788 09	46 84	1,066 14	13 65	350 00	40 00	
Walsby	274	1,268 73	5,173 46	46 84	6,238 50	62 60	750 00	60 00	120 00
Wallaceburg	1,385	2,728 08	23,665 60	42 80	1,281 36	17 50	270 00	16 00	
Wallacetown	485 50	485 50	6,464 49	66 02	3,255 16	27 09	300 00		
Wardsville	457	773 87	10,422 63	136 21	3,838 83	57 23	380 00		40 00
Wardville	1,010	1,237 55	21,850 21	21 86	236 01	8 85	100 00		
Warsaw	97	297 76	3,520 19	27 49	912 54	9 44	94 00		
Warwick	239	222 67	3,645 92	27 49	2,581 84	15 25	300 00		
Watford	340	697 64	5,789 76	42 71	3,519 90	23 72	580 00	80 00	70 00
Waterdown	719	1,775 39	8,442 62	58 69	28,922 41	23 85	1,240 00	16 00	200 00
Norfolk	614	4,141 68	7,065 31	67 59	8,507 96	69 41	700 00	30 00	200 00
Waterloo	1,323	2,553 48	27,115 81	177 03	731 87	11 92	300 00	160 00	40 00
Watford	461	1,090 73	4,656 57	37 76	10,057 63	29 04	900 00		160 00
Waukena	824	3,433 14	10,214 82	80 18	516 61	136 00	300 00	8 00	
Welland	287	365 48	8,036 38	50 82	1,271 94	16 18	300 00		
Welland Port	314	842 75	6,295 82	46 12	1,753 17	22 91	300 00		
Wellesley	569	787 67	8,857 55	63 99	1,326 21	9 09	376 00	20 00	40 00
Wellington	233	1,056 44	3,139 30	25 20	2,580 72	18 04	320 00	16 00	40 00
West Lorne	429	762 83	6,885 15	53 67	1,341 89	20 26	348 00	12 00	40 00
Weston	210	1,015 66	7,144 84	46 03	2,820 98	18 00	250 00		60 00
Westport	665	1,681 40	6,546 96	68 80	5,262 55	12 82	480 00		
West Toronto Junction	307	1,821 28	4,561 99	34 40	13,369 32	42 43	1,450 00	200 00	240 00
West Winchester	1,454	4,764 35	14,491 58	120 93	681 22	2 40	92 00		
Whitby	35	282 38	772 66	6 59	7,783 94	52 04	731 66	75 00	113 33
Whitevale	1,291	2,762 89	20,115 43	138 53					
Wheaton									

+ Salaries, &c., entered elsewhere.

+ Late Credit.

\* Opened, 1st April, 1890.

STATEMENT showing the Money Order Offices in operation, &amp;c., in Ontario—Concluded.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Postmasters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
Wilkesport.....	Bothwell..	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Williamstown.....	Glenagary	246 03	346	7,317 71	44 02	1,392 88	18 61	90 00	4 00	
Windsor.....	Essex.	724 18	126	3,730 61	24 92	2,320 42	10 04	240 00		
Wingham.....	Huron.....	11,164 02	2,304	34,263 58	287 19	42,545 88		1,000 00		
*Winona.....	Wentworth	4,010 77	1,229	17,846 53	153 36	12,267 32	48 49	85 00	60 00	150 00
Woodbridge.....	York.....	346 98	37	513 56	3 85	375 44	1 42	400 00	27 00	
Woodham.....	Perth.....	703 71	422	8,840 13	58 39	2,747 94	22 91	72 00		40 00
Woodlee.....	Essex.....	205 43	83	2,208 65	16 46	507 30	5 52	95 00		
Woodstock.....	Oxford	331 45	423	15,028 85	93 83	1,296 17	38 57	3,100 00	160 00	500 00
Woodville.....	Victoria..	14,755 48	3,820	41,467 94	352 08	80,337 71	120 92	350 00	32 00	40 00
Wroter.....	Huron.....	1,011 83	1,039	39,422 89	230 47	2,180 87	99 49	310 00	50 00	40 00
Wyoming.....	Lambton..	827 25	358	9,052 88	64 86	3,879 49	24 91	440 00	6 00	60 00
*Yarker.....	Addington	1,474 95	774	11,030 43	79 78	2,757 27	28 77	170 00		
York.....	Haldimand	463 37	97	2,138 08	13 96	818 52	5 43	136 00		200 00
Yorkville.....	York.....	390 32	109	2,531 97	17 10	815 02	6 98	900 00		
Zurich.....	Huron.....	5,317 19	1,981	24,917 68	278 99	4,661 02	65 83	220 00		
		742 83	282	9,072 70	57 46	2,088 81	23 28			
Totals.....		1,394,150 14	365,824	5,547,482 12	44,293 99	5,268,129 39	12,596 10	243,967 14	19,596 83	23,132 32

\* Opened 1st October, 1888.

† Salaries, &amp;c., entered elsewhere.

WILLIAM WHITE,  
Deputy Postmaster General.

W. H. SMITHSON,  
Accountant.

PROVINCE OF QUEBEC.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster at each Office respectively, during the Year ended 30th June, 1889.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Postmasters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Abercorn .....	Brome.	166 89	71	530 83	4 25	309 56	1 35	95 00	150 00	40 00
Acton Vale .....	Bagot.	897 19	64	1,345 73	10 32	2,622 11	7 83	380 00	12 00	60 00
Agnes .....	Beauce.	1,068 75	271	7,170 20	50 00	1,692 95	19 26	450 00	108 00	60 00
Arthabaska .....	Arthabaska.	1,644 61	401	6,910 27	56 49	5,706 46	29 26	480 00	10 00	40 00
Aylmer East .....	Ottawa.	1,358 49	412	11,107 73	75 54	2,866 90	8 97	420 00	48 00	40 00
Bagotville .....	Chicoutimi.	196 13	80	3,563 10	21 54	155 42	22 70	140 00	12 50	60 00
Beauharnois .....	Beauharnois	1,097 50	440	8,666 46	56 65	4,163 38	4 01	380 00	100 00	60 00
Béancour .....	Nicolet.	578 15	19	970 00	6 92	1,446 45	18 33	120 00	8 00	40 00
Bedford .....	Missisquoi	1,277 49	447	5,957 97	53 15	4,331 57	7 22	9 00	32 00	16 00
Beebe Plain .....	Stanstead	271 50	64	2,862 36	15 42	4,169 68	24 38	250 00	40 00	40 00
Bersimis .....	Saguenay	24 00	385	8,621 44	60 78	4,800 88	10 38	240 00	80 00	20 00
Berthier (en haut) .....	Berthier.	1,879 53	147	3,928 10	26 69	1,242 25	8 44	160 00	40 00	20 00
Black Cape .....	Bonaventure	618 73	100	2,043 70	14 42	769 92	41 52	300 00	40 00	20 00
Bolton Centre .....	Brome.	72 53	151	3,092 36	20 28	1,301 45	3 65	234 00	8 00	40 00
Bryson .....	Pontiac.	493 43	682	15,662 66	114 69	4,166 14	11 55	240 00	48 00	40 00
Buckingham .....	Ottawa.	2,621 55	50	1,048 18	8 50	2,997 85	7 86	300 00	100 00	20 00
Cacouna .....	Témiscouata	630 26	285	4,132 73	42 48	785 42	8 36	160 00	8 00	60 00
Capelon .....	Sherbrooke	635 56	22	1,446 21	7 90	591 02	3 63	84 00	32 00	16 00
Cap Santé .....	Portneuf	344 63	167	2,845 01	24 69	1,364 47	7 86	234 00	16 00	140 00
Chambly Canton .....	Chambly	566 31	222	1,730 89	10 43	887 69	9 97	240 00	48 00	40 00
Chapau .....	Pontiac	936 74	79	3,189 23	24 03	1,115 78	4 37	115 00	48 00	40 00
Chelsea .....	Ottawa.	444 01	267	11,496 81	71 86	8,371 60	36 09	430 00	32 00	60 00
Chicoutimi .....	Chicoutimi	1,490 97	103	3,372 41	24 80	1,148 01	34 60	240 00	100 00	140 00
Clarenceville .....	Missisquoi.	573 30	1,197	11,933 61	112 37	7,989 57	9 61	348 00	48 00	40 00
Coaticook .....	Stanstead	3,581 55	216	3,062 87	29 47	2,035 05	22 64	370 00	48 00	40 00
Compton .....	Compton	920 16	397	7,918 50	62 16	2,891 79	20 23	170 00	32 00	60 00
Cookshire .....	do	1,348 00	208	7,844 57	49 53	1,403 05	17 41	560 00	32 00	60 00
Coreau Landing .....	Soulanges	600 44	537	7,844 57	56 13	4,278 03	28 14	580 00	32 00	60 00
Cowansville .....	Missisquoi.	1,972 06	424	6,387 37	66 25	6,130 16				
Danville .....	Richmond	2,115 87		7,705 47						

+Opened 1st April, 1889.

## STATEMENT showing the Money Order Offices in Operation, &amp;c., in Quebec—Continued.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Order Paid.	Compensation Paid to Post-masters on M. O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Deschambault	Portneuf	419 64	36	1,170 87	7 80	701 87	3 42	110 00		
Drummondville, East.	Drummond	1,648 77	157	2,675 15	21 72	2,394 22	8 59	424 00	16 00	60 00
Dunham	Missisquoi	507 18	377	6,633 86	50 09	1,756 17	18 16	220 00	16 00	
East Farnham	Brome	217 91	91	900 10	7 43	963 25	2 89	85 00		
Etchemin	Lévis	733 22	142	2,325 61	16 69	578 93	6 64	260 00	12 00	
Farnham	Missisquoi	1,782 21	724	13,306 04	112 29	3,911 44	37 70	510 00	24 00	60 00
Franklin Centre.	Huntingdon	258 00	24	928 35	6 24	702 71	2 98	100 00		
Freilighsburg	Huntingdon	667 77	234	2,992 73	26 06	1,627 94	9 23	260 00	16 00	
Gaspé Basin.	Missisquoi	1,013 16	529	9,915 01	70 61	4,022 72	27 20	300 00	160 00	40 00
Gaspé	Missisquoi	1,871 60	607	7,441 54	59 68	4,482 01	22 21	490 00	36 00	80 00
Granby	Shefford	871 37	268	14,501 35	81 82	2,241 91	37 99	300 00	32 00	40 00
Grenville	Argenteuil	500 74	78	936 45	9 42	790 40	3 47	168 00		
Hatley	Stanstead	332 72	25	894 31	6 10	565 95	2 67	130 00	30 00	
Hebertville	Chicoutimi	895 05	63	1,844 53	13 57	1,121 32	6 14	260 00	60 00	
Henningsford	Huntingdon	378 09	53	2,156 47	16 42	1,353 20	5 92	120 00		
Henryville	Hochelaga	1,722 37	484	7,149 49	79 95	1,273 48	19 06	500 00	500 00	80 00
Hochelaga	Hochelaga	2,876 79	575	13,605 49	98 09	5,343 91	37 50	1,000 00	60 00	80 00
Hull	Ottawa	2,052 69	316	6,469 34	45 20	6,698 78	18 27	580 00	64 00	20 00
Huntingdon	Huntingdon	984 26	168	4,752 59	33 63	2,750 60	13 95	280 00	160 00	100 00
Inverness	Mégantic	2,691 33	679	12,783 29	92 44	6,888 18	39 41	704 00	84 00	
Joliette	Joliette	484 00	49	1,606 23	10 78	4,206 35	8 04	258 00		
Kamouraska	Kamouraska	211 86	187	2,313 88	25 12	458 94	6 13	78 00		
Kingsbury	Richmond	584 19	58	1,061 10	10 96	291 28	2 99	210 00		
Kingsley Falls	Drummond	314 06	33	980 29	8 04	1,126 22	3 72	108 00		
Kinnear's Mills.	Mégantic	1,480 98	817	14,340 00	105 90	3,153 31	38 50	410 00	24 00	50 00
Knowlton	Brome	262	292	5,093 96	51 41	2,349 09	15 34	640 00	120 00	80 00
Lachine	Jacques Cartier	812 33	323	11,016 45	92 21	5,086 71	32 19	550 00	16 00	80 00
Lacoste	Argenteuil	2,188 90	189	11,016 45	38 59	1,706 97	15 62	280 00	30 00	
Lacolle	St. Johns	829 18	57	5,730 80	16 58	643 91	5 29	180 00		
Lambton	Beauce	471 49	157	2,050 52	25 78	972 40	8 74	225 00		
Laprairie	Laprairie	587 29	7	3,098 78	25 78	1,547 70	2 57	360 00	12 00	40 00
L'Assomption	L'Assomption	878 20	123	2,192 57	15 75	1,329 21	6 38	192 00		
Laurentides	do	572 84	147	2,96 94	2 30	4,980 68	17 92	200 00		
Lauson	Lévis	495 16	147	2,875 89	26 25	1,153 44	9 70	100 00		
Lawrenceville	Shefford	262 58	104	2,822 63	21 32	1,533 71	10 66	28 00	32 00	
Leeds	Mégantic	67 17	91	3,640 63	31 45	1,533 71	21 16	630 00	120 00	80 00
Lennoxville	Sherbrooke	1,929 64	524	6,373 67	57 76	6,248 84	21 16	180 00		
L'Epiphanie	L'Assomption	709 01	16	735 64	5 40	360 76	1 96			

Lea Eboulemens.	317 90	204	4,496 78	26 04	2,566 76	15 31	116 00	16 00	80 00
Lévis.	766 49	496	13,263 40	102 46	12,260 77	44 39	600 00	20 00	
Little Métis.	387 22	81	1,582 81	6 43	8,060 44	6 11	120 00		
Longueuil.	489 07	87	1,800 25	16 55	1,806 98		200 00		
Lotbinière.	416 72	233	5,334 07	35 74	2,729 08	17 59	180 00	12 00	
Maekinnong.	1,602 70	132	4,583 73	29 69	3,435 99	15 02	400 00	72 00	
Magog.	1,709 61	265	4,314 63	41 47	1,204 09	12 38	480 00		80 00
Mansonville.	531 88	451	6,353 50	46 29	1,264 78	15 93	195 00		
Maniwaki.	337 20	35	1,210 94	8 12	684 63	3 65	140 00		
Massawippi.	284 46	41	608 03	5 67	526 35	2 53	90 00		
Montmagny.	1,740 69	198	5,831 60	40 49	7,791 58	21 56	520 00	40 00	
Montreal.	272,526 97	27,315	408,124 82	4,266 35	945,866 10			120 00	
Murray Bay.	738	20,381 62	20,381 62	121 07	9,406 28	51 96	260 00		
Napierville.	620 74	157	4,988 29	34 19	1,742 63	14 95	230 00		
New Carlisle.	556 25	98	3,559 86	21 17	2,556 54	9 09	200 00		
Nicolet.	1,409 34	156	3,127 98	23 24	3,517 17	11 82	440 00	120 00	
North Hadley.	337 25	195	1,997 40	18 61	193 19	5 04	110 00		
North Wakefield.	325 08	28	1,354 83	7 60	668 37	3 58	95 00	40 00	
Notre Dame de Stanbridge.	373 48	279	8,248 06	50 66	438 38	21 29	120 00		
† Ontario Street (Montreal).		71	1,288 81	11 50	26 50	3 22			40 00
Ormstown.	1,113 20	127	5,270 53	39 21	2,087 38	14 31	320 00		
Paspébiac.	681 84	406	13,755 55	93 86	3,667 20	38 07	260 00	200 00	
Percé.	1,013 92	516	9,780 68	66 87	7,171 36	31 10	244 00	24 00	
Pierreville.	1,093 81	61	2,356 50	14 33	965 73	7 14	256 00	10 00	
† Pointe à Pic.	91 02	13	497 74	2 72	155 00	1 24	70 00		
Point St. Charles.	3,665 57	1,981	22,818 01	265 39	4,064 46	61 27	720 00	120 00	
Portage du Fort.	1,074 74	175	4,946 00	38 71	1,918 34	12 83	410 00	6 00	40 00
Quebec.	42,419 89	6,166	112,186 13	969 05	174,283 04				
Quyon.	759 25	250	8,245 01	52 81	2,193 20	22 88	228 00	28 00	
Richmond, East.	1,995 41	1,009	13,480 55	117 17	7,201 89	38 65	520 00	80 00	
Rigaud.	1,776 90	49	1,325 99	8 37	2,104 94	5 08	280 00		80 00
Rimouski.	1,875 27	310	8,006 90	67 72	9,235 33	27 80	500 00	90 00	60 00
Rivière du Loup (en bas).	385 40	3	45 00	40	254 50	63	120 00		
Robinson.	2,582 42	409	11,064 28	88 58	8,950 35	33 30	600 00	80 00	
Rock Island.	441 15	155	2,621 59	18 44	613 94	7 04	160 00	40 00	
Roxton Falls.	300 99	153	2,049 02	14 63	3,237 61	5 22	132 00		
St. André Avelin.	391 42	38	628 82	6 24	1,571 86	3 59	280 00		
† St. André's, East.	816 86	117	2,437 34	14 52	669 35	6 43	105 00	22 50	
† Ste. Anne de la Pénade.	381 34	4	5,081 79	34 98	2,988 62	14 34	320 00	16 00	40 00
† Ste. Anne de la Pocatière.	476 40	16	186 60	1 10	106 43	46	130 00	10 00	
St. Athanase.	392 49	317	445 71	3 90	82 25	1 11	150 00	20 00	
St. Barthélemi.	382 49	272	3,987 61	29 53	2,310 25	12 34	180 00		
St. Casimir.	718 20	100	8,347 85	50 34	969 06	22 34	120 00		
† St. Catherine Street (Montreal).		660	4,522 04	29 01	2,490 31	16 14	280 00	12 00	
St. Césaire.	946 86	322	7,222 42	87 49	65 22	18 09	360 00		40 00
St. Charles, River Richelieu.	97 23		5,048 27	42 94	4,914 39	20 96			
St. Hyacinthe.	610 08	253	8,202 07	61 95	1,304 31	21 66	37 50		
† St. Chrysostôme.					200 00				

\* Sealeria, &amp;c., entered elsewhere.

† Opened 1st April, 1889.

† Opened 1st January, 1889.

† Opened 1st October, 1888.



## STATEMENT showing the Money Order Offices in operation, &amp;c., in Quebec—Concluded.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Post-masters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ste. Croix.....	Lotbinière.....	316 71	46	2,405 84	14 27	1,892 13	9 94	130 00	12 00	
Ste. Eustache.....	Two Mountains.....	658 65	179	5,205 62	33 50	1,592 06	13 10	220 00	12 00	
* Ste. Flavie Station.....	Rimouski.....	369 22	58	1,137 79	7 64	95 40	2 84	86 00	12 00	
St. Félix de Valois.....	Joliette.....	423 41	73	3,142 18	19 54	474 35	8 69	140 00	16 00	
St. François, Beauce.....	Beauce.....	389 44	75	1,507 22	10 13	678 97	4 28	116 00		
Ste. Geneviève de Batiscan.....	Champlain.....	412 96	26	982 41	8 22	1,306 16	3 34	140 00	67 50	
St. Grégoire.....	Nicolet.....	496 32	14	590 09	3 50	478 25	2 03	160 00		
* St. Henri de Montréal.....	Hochelaga.....	703 08	78	780 82	9 60	438 98	2 07	250 00	40 00	
St. Hyacinthe.....	St. Hyacinthe.....	6,059 98	977	12,561 72	110 65	17,458 52	46 70	1,400 00	200 00	220 00
St. Jean de Chailions.....	Lotbinière.....	451 50	71	3,380 09	21 15	684 56	8 92	160 00		
St. Jérôme.....	Terrebonne.....	1,564 76	210	3,833 72	29 01	7,061 67	14 96	480 00	120 00	60 00
St. John's, East.....	St. John's.....	4,066 45	861	14,336 85	109 11	11,092 46	40 97	1,175 00	80 00	
* St. John Suburb (Quebec).....	Quebec.....	2,231 39	76	678 54	6 93	31 40	1 69	675 00		100 00
Ste. Marie de Monroir.....	Rouville.....	756 07	54	1,400 28	10 31	2,508 53	7 45	320 00		40 00
Ste. Martine.....	Châteauguay.....	335 64	108	3,115 81	21 72	679 50	8 10	116 00		
St. Paul's Bay.....	Charlevoix.....	374 06	375	11,834 09	69 93	5,042 94	36 51	320 00	200 00	40 00
St. Pie.....	Bagot.....	670 33	77	1,189 95	9 40	735 37	3 79	156 00	16 00	
St. Polycarpe.....	Soulanges.....	363 95				437 44		150 00	16 00	
St. Raymond.....	Portneuf.....	562 56	130	2,993 22	19 93	989 35	7 86	230 00	32 00	
St. Remi.....	Napierville.....	720 15	152	3,823 60	28 68	2,033 26	11 96	200 00		650 00
St. Roch de Québec.....	Quebec.....	5,609 26	985	18,364 81	150 23	10,735 84	52 63	1,260 00		100 00
St. Sauveur de Québec.....	do.....	1,980 60	166	3,281 76	25 82	2,569 27	10 71	600 00		
St. Scholastique.....	Two Mountains.....	924 74	110	4,817 75	33 86	2,230 42	13 28	240 00	72 00	
St. Sylvester, East.....	Lotbinière.....	376 13	62	2,328 92	16 26	1,151 57	7 66	120 00		
St. Sylvester, West.....	do.....	47 88	48	832 59	6 04	189 90	2 24	26 00		
Ste. Thérèse de Blainville.....	Terrebonne.....	721 51	282	9,042 35	54 77	3,476 13	23 07	264 00	32 00	
Scotstown.....	Compton.....	882 75	140	2,973 69	23 90	2,591 13	10 41	212 00	20 00	
Shawville.....	Portiac.....	786 16	157	3,465 70	23 24	1,815 62	9 36	220 00	30 00	
Sherbrooke.....	Sherbrooke.....	12,039 14	1,812	22,451 92	206 83	23,894 72	71 12	2,650 00	100 00	
Somerset.....	Mégantic.....	1,360 58	62	1,662 60	10 75	3,548 17	8 14	400 00	32 00	40 00
Sorel.....	Richelieu.....	2,914 34	683	10,438 34	80 69	8,414 97	31 67	820 00	200 00	
South Durham.....	Drummond.....	579 51	60	1,210 86	9 58	1,540 38	3 45	240 00	40 00	
Stanford.....	Arthabaska.....	1,101 46	105	3,453 34	26 79	1,674 86	11 04	360 00	32 00	40 00
Stanstead.....	Stanstead.....	1,060 12	274	1,840 14	20 14	2,845 29	6 53	500 00	160 00	80 00
Sutton.....	Brome.....	882 52	275	5,201 11	39 73	1,869 12	15 23	320 00		40 00
Sweetsburg.....	Missisquoi.....	670 53	257	3,954 05	31 14	1,161 05	10 45	280 00	16 00	
Terrebonne.....	Terrebonne.....	763 50	127	3,168 49	20 84	3,916 07	8 79	250 00	30 00	

Three Rivers.....	St. Maurice.....	6,522 94	877	14,598 62	114 66	13,011 12	47 87	1,500 00	360 00	.....
Thurso.....	Ottawa.....	995 85	178	3,580 36	26 05	1,965 27	9 92	300 00	16 00	.....
† Trois Pistoles.....	Témiscouata.....	834 11	214	4,078 65	28 05	530 64	10 51	240 00	9 00	30 00
Ulverton.....	Drummond.....	284 21	33	469 82	4 32	659 99	1 39	100 00	.....	.....
Valleyfield.....	Beauharnois.....	2,366 55	424	7,729 37	61 72	4,955 49	23 72	640 00	40 00	.....
Victoriaville.....	Arthabaska.....	1,252 00	41	846 56	5 92	613 42	2 31	400 00	200 00	40 00
Waterloo, East.....	Shefford.....	2,776 49	1,050	11,151 57	98 27	7,917 35	32 49	660 00	96 00	100 00
Windsor Mills.....	Richmond.....	1,462 32	74	1,432 16	13 24	1,650 58	6 34	408 00	.....	40 00
† Wright.....	Ottawa.....	84 25	1	5 09	05	617 38	10	30 00	.....	.....
Yamachiche.....	St. Maurice.....	822 85	58	1,727 15	13 21	726 04	5 78	280 00	24 00	.....
Totals.....	.....	490,988 20	74,195	1,321,589 16	11,405 89	1,577,448 61	2,382 87	51,953 50	6,207 50	4,250 00

\* Opened 1st January, 1889.

W. H. SMITHSON,  
Accountant.

† Opened 1st October, 1888.

WILLIAM WHITE,  
Deputy Postmaster-General.

+ Closed 31st December, 1888.

## PROVINCE OF NOVA SCOTIA.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster at each Office respectively, during the Year ended 30th June, 1889

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation Paid to Postmasters on M.O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Acadia Mines.....	Colchester.....	1,565 09	1,295	19,879 55	163 77	5,436 94	54 27	500 00	60 00	
Amherst.....	Cumberland.....	6,819 20	3,232	39,602 75	332 95	58,676 03	109 23	1,500 00	150 00	
Annapolis.....	Annapolis.....	2,285 78	1,543	18,965 00	180 56	13,964 58	53 25	624 00	300 00	120 00
Antigonish.....	Antigonish.....	2,740 10	1,635	22,278 59	170 97	60,756 37	101 96	800 00	64 00	
Arichat.....	Richmond.....	913 32	1,361	38,664 84	241 73	27,453 53	139 90	400 00		40 00
Athol.....	Cumberland.....	142 94	121	1,677 21	11 17	610 38	4 27	60 00	120 00	
Auburn.....	King's.....	259 31	167	2,123 26	16 41	503 72	5 38	90 00		
Aylesford.....	do.....	626 06	612	7,598 84	60 66	3,951 09	23 53	220 00	40 00	
Baddeck.....	Victoria.....	1,375 80	800	25,892 29	157 02	10,829 05	79 60	400 00	120 00	
Barrington.....	Shelburne.....	802 34	682	13,848 67	94 25	11,708 68	47 70	400 00		40 00
Bass River.....	Colchester.....	303 01	160	2,352 46	17 04	3,421 58	9 07	66 00		
Bayfield.....	Antigonish.....	139 98	215	7,613 90	44 18	965 93	20 15	50 00		
Bear River (West Side).....	Digby.....	759 41	845	14,332 18	97 81	4,989 48	41 39	260 00		
Berwick.....	King's.....	1,067 37	834	14,606 43	117 09	10,911 62	45 21	400 00		40 00
Boylston.....	Guysboro'.....	211 33	136	3,767 46	23 68	1,332 41	11 64	77 00		
*Bridgeport.....	Cape Breton.....	63 59	87	1,119 48	9 10	94 69	2 97	52 00		
Bridgeport.....	Annapolis.....	1,916 36	1,248	16,104 79	121 91	15,834 36	50 55	520 00		60 00
Bridgeport.....	Lunenburg.....	3,191 15	1,928	33,033 38	249 85	12,205 05	90 05	700 00	120 00	100 00
Caledonia Corner.....	Queen's.....	548 10	1,257	38,431 29	228 24	5,032 49	99 47	160 00	40 00	
Canning.....	King's.....	1,045 39	659	8,629 65	64 77	6,476 53	28 89	360 00	50 00	40 00
Canso.....	Guysboro'.....	1,161 06	1,531	30,133 93	227 46	4,620 48	78 14	330 00		40 00
Chester.....	Lunenburg.....	1,965 77	246	5,526 20	35 98	3,409 85	16 48	224 00	20 00	
Cheticamp Chapel.....	Inverness.....	18 58	146	5,514 60	32 07	3,173 63	15 97	12 00		
Cheverie.....	Hants.....	222 16	125	1,943 46	13 68	1,356 25	7 68	90 00		
Christmas Island.....	Cape Breton.....	106 10	198	5,447 07	34 58	1,129 26	13 95	64 00		
Clarke's Harbour.....	Shelburne.....	232 78	269	6,864 92	43 56	1,072 22	18 75	80 00		
Clementsport.....	Annapolis.....	297 39	251	2,552 41	21 35	1,863 22	8 26	138 00		
Clyde River.....	Shelburne.....	184 77	189	3,497 59	22 93	3,191 20	12 07	72 00	24 00	
Cow Bay.....	Cape Breton.....	712 59	1,207	23,854 43	159 44	4,651 01	64 11	260 00		
Cross Roads, C. H.....	Guysboro'.....	284 70	10	23,124 06	99 94	1,92 55	31	120 00		
Dartmouth.....	Halifax.....	1,745 82	769	8,851 79	82 40	6,392 73	28 85	520 00		80 00



## STATEMENT showing the Money Order Offices in operation, &amp;c., in Nova Scotia—Concluded.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Post-masters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Newport Landing.	Hants.	249 05	197	2,822 76	23 85	1,149 51	9 14	80 00		
New Ross.	Lunenburg.	109 02	243	5,800 11	33 27	942 69	13 89	40 00		
Noel.	Hants.	214 46	215	3,804 92	26 80	3,419 73	15 73	80 00		
North Sydney.	Cape Breton.	2,346 95	1,536	31,403 87	214 44	20,735 09	90 44	663 34	65 00	66 66
Oxford.	Cumberland.	1,398 80	1,495	33,486 15	211 62	6,558 47	86 64	390 00		40 00
Parsboro'.	do	2,957 74	2,007	34,768 17	293 81	8,929 85	91 43	560 00	100 00	80 00
Pictou.	Pictou.	4,684 67	2,281	34,128 71	263 25	45,585 49	116 21	1,200 00	100 00	190 00
Port Hastings.	Inverness.	510 30	278	7,143 25	45 11	3,152 49	21 92	270 00	160 00	40 00
Port Hawkesbury.	do	1,091 37	602	13,466 51	91 55	12,271 91	39 58	380 00	240 00	40 00
Port Hood.	do	767 37	593	14,346 44	88 50	6,348 01	40 79	320 00		
Port la Tour.	Shelburne.	175 64	53	1,657 99	10 72	1,314 15	6 39	55 00		
Port Matland.	Yarmouth.	378 28	247	5,987 50	39 90	4,129 23	22 87	100 00		
Port Medway.	Queen's.	331 13	291	4,837 04	34 52	2,145 61	14 83	130 00		
Port Mulgrave.	Guy'sboro'.	617 50	404	8,307 02	56 11	3,454 22	27 04	180 00	24 00	
Port Williams.	King's.	413 46	221	2,755 11	23 33	3,195 93	9 16	130 00		
Pubnico Harbour.	Yarmouth.	161 67	322	6,761 02	45 48	2,344 17	21 00	84 00		
Pugwash.	Cumberland.	901 82	1,108	21,278 37	146 15	6,335 11	59 17	310 00	10 00	40 00
River Bourgeois.	Richmond.	96 61	107	3,499 92	20 49	456 06	8 92	50 00	8 00	
River Inhabitant's Bridge.	do	256 13	184	4,770 94	40 83	634 28	12 78	56 00		
River John.	Pictou.	766 81	1,092	27,900 71	178 00	4,638 04	75 07	300 00		20 00
River Philip.	Cumberland.	165 74	131	1,958 77	14 08	1,449 92	6 36	116 00		
Round Hill.	Annapolis.	271 05	131	1,266 81	9 55	526 05	3 18	100 00		
St. Andrews.	Antigonish.	113 60	106	2,179 63	14 14	1,545 31	8 43	50 00		
St. Peter's.	Richmond.	747 47	415	10,088 25	61 50	6,080 00	32 53	270 00	80 00	
Sandy Cove.	Digby.	169 27	113	1,256 75	9 50	886 10	4 69	68 00		
Shelburne.	Shelburne.	980 31	1,466	36,356 37	283 36	10,043 42	99 55	425 00	12 00	50 00
Sherbrooke.	Guy'sboro'.	540 65	469	10,990 48	69 83	9,784 34	36 71	332 00		40 00
Shubenacadie.	Hants.	814 00	312	5,972 29	44 58	8,259 19	26 87	260 00	200 00	
Spring Hill Mines.	Cumberland.	2,437 64	2,314	28,487 76	230 73	10,988 61	77 30	720 00		100 00
Stellarton.	Pictou.	1,460 01	959	10,035 53	81 20	10,493 20	30 82	520 00		60 00
*Strathlorne.	Inverness.	74 70	44	1,527 83	10 91	223 23	3 27	35 00		
Sydney.	Cape Breton.	2,738 72	1,732	33,744 96	234 03	20,067 99	96 88	750 00	200 00	110 00
Sydney Mines.	do	457 55	341	3,621 25	32 88	4,255 33	12 24	160 00		
Tangier.	Halifax.	189 79	210	5,199 13	34 00	1,484 01	15 27	140 00		
Tatamagouche.	Colchester.	839 44	871	22,120 40	148 49	6,238 86	61 06	260 00	30 00	
Thorburn.	Pictou.	484 91	363	6,612 31	56 27	6,790 13	16 76	200 00		
Tracadie.	Antigonish.	143 26	229	3,038 32	22 01	4,504 23	17 62	131 00		

Truro.....	Colchester	3,043	41,646 36	343 59	92,385 51	135 25	1,950 00	55 00	.....
Tusket.....	Yarmouth	157	3,127 27	24 02	4,086 86	17 19	110 00	8 00	.....
Upper Musquodoboit.....	Halifax	103	2,516 52	15 49	1,063 22	7 75	72 00	10 00	.....
Upper Stewiacke.....	Colchester	296	3,498 08	26 38	3,629 34	13 21	140 00	30 00	.....
Wallace.....	Cumberland	952	27,781 61	209 58	7,845 42	83 11	210 00	.....	.....
Watton.....	Hants	133	1,711 95	12 29	2,913 85	8 75	76 00	.....	.....
Waterville.....	King's	607	10,633 06	71 28	2,728 78	28 47	360 00	40 00	.....
West Bay.....	Inverness	203	3,847 59	26 60	2,238 64	12 20	120 00	4 00	.....
Westport.....	Digby	409	7,811 29	49 72	1,733 86	29 85	150 00	.....	.....
West River, Sheet Harbour	Halifax	356	10,574 91	65 26	3,999 76	27 53	212 00	42 00	.....
Westville.....	Pictou	1,950	18,458 61	135 46	6,474 23	52 22	380 00	10 00	.....
Weymouth.....	Digby	879 41	2,640 02	19 91	4,422 27	12 43	610 00	80 00	.....
Weymouth Bridge.....	do	442	7,487 06	56 89	8,203 30	21 95	330 00	40 00	.....
Whycocomagh.....	Inverness	339	10,453 19	64 84	5,141 74	34 73	250 00	.....	.....
Wilnot.....	Annapolis	140	2,890 24	22 24	2,909 98	11 27	100 00	.....	.....
Windsor.....	Hants	1,729	24,607 80	202 54	24,352 39	75 79	1,060 00	.....	.....
Wolfville.....	King's	1,395	22,995 96	172 30	20,154 57	64 03	600 00	100 00	.....
Yarmouth.....	Yarmouth	3,770	55,284 03	475 78	85,824 95	179 82	1,850 00	400 00	.....
Totals.....		99,727	1,764,088 20	12,946 42	1,626,467 73	4,808 47	38,025 34	4,343 00	2,486 66

\* Opened 1st January, 1889.

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

## PROVINCE OF NEW BRUNSWICK.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster of each Office respectively, during the year ended 30th June, 1889.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Commission paid to Postmasters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Albert.....	Albert.....	452 47	883	16,920 86	113 27	9,626 70	50 27	200 00	60 00	
Alma.....	do.....	251 16	388	5,180 48	36 78	1,357 54	13 26	80 00		
Anagance.....	King's.....	129 04	157	2,895 25	19 96	1,355 28	8 15	55 00		
Apohaqui.....	do.....	291 27	173	3,154 77	23 60	1,672 83	10 00	100 00	30 00	
Andover.....	Victoria.....	691 41	313	9,256 12	60 03	3,448 28	26 07	260 00	20 00	
Armstrong's Brook.....	Restigouche.....	290 68	397	6,521 21	44 08	1,270 33	17 64	84 00	8 00	
Bate Verte.....	Westmoreland.....	476 39	539	15,316 49	106 41	3,791 80	43 42	160 00	20 00	
Bathurst.....	Gloucester.....	1,611 13	1,009	18,918 82	128 42	8,896 89	46 34	463 34	83 34	
Bathurst Village.....	do.....	677 99	498	9,281 94	62 66	1,171 16	24 89	300 00	6 00	
Bayfield.....	Westmoreland.....	207 23	241	5,149 85	34 76	1,022 15	13 00	60 00		
Blackville.....	Northumberland.....	247 94	57	1,200 40	8 57	675 60	4 49	80 00		
Bristol.....	Carleton.....	571 73	155	4,252 54	29 28	1,649 15	12 39	108 00	36 00	
Buctouche.....	Kent.....	873 20	285	6,543 58	43 85	4,914 54	22 03	300 00	28 00	
Butternut Ridge.....	King's.....	471 63	434	7,068 48	49 06	2,577 37	19 54	140 00	12 00	
Campbellton.....	Restigouche.....	2,304 84	1,840	30,548 24	218 36	6,741 92	78 10	560 00	100 00	79 99
Campo Bello.....	Charlotte.....	83 96	107	2,029 72	13 56	194 75	5 09	39 00		
Canterbury Station.....	York.....	412 59	380	4,114 17	23 00	1,487 89	10 97	150 00	8 00	
Caracquet.....	Gloucester.....	337 33	357	11,496 86	69 93	1,572 60	29 63	120 00	50 00	
Carleton.....	St. John.....	1,369 11	503	7,010 86	59 60	9,250 75	28 08	500 00		
Centreville.....	Carleton.....	630 41	213	4,672 94	34 73	5,472 55	22 72	150 00	14 00	
Chatham.....	Northumberland.....	4,214 32	1,930	29,456 37	234 46	16,303 60	85 53	1,270 00	400 00	
Chipman.....	Queen's.....	258 84	182	3,204 78	24 26	1,369 11	9 26	66 00	12 00	
Clifton King's.....	King's.....	137 64	59	521 80	5 06	393 33	1 62	45 00	29 00	
*Collins.....	do.....	50 86				60 00		15 00		
Dalhousie.....	Restigouche.....	1,247 65	819	18,754 46	123 57	5,919 48	49 53	450 00	80 00	40 00
Debec.....	Carleton.....	135 80	188	3,190 07	23 31	753 54	8 34	84 00		
Dorchester.....	Westmoreland.....	1,795 78	1,156	15,254 89	115 11	11,491 64	43 71	630 00	30 00	80 00
Edmundston.....	Victoria.....	929 77	385	17,897 68	104 18	2,794 88	45 28	200 00	64 00	
Elgin.....	Albert.....	333 02	346	5,703 65	38 71	3,084 77	15 01	122 00	16 00	
Fairville.....	St. John.....	535 50	217	3,005 05	25 08	1,490 96	9 13	242 00		
Florenceville.....	Carleton.....	226 79	141	4,473 33	27 18	1,787 84	12 66	236 00	20 00	

Fredericton	York	10,499 09	2,749	36,127 32	306 08	53,347 73	+	100 00	8 00	40 00
Fredericton Junction	Sunbury	214 77	37	692 20	5 10	315 84		100 00	8 00	
Gagetown	Queen's	341 50	305	6,051 41	41 13	3,583 52		355 00	20 00	
Grand Falls	Victoria	647 14	271	8,258 22	51 31	1,922 76		261 00	52 00	
Grand Manan	Charlotte	392 03	513	13,511 54	96 47	1,397 66		144 00	16 00	
Hamstead	Queen's	110 16	63	2,143 97	13 73	892 52		40 00		
Hampton	King's	351 50	224	3,333 21	26 61	3,270 25		130 00		
Hartland	Carleton	654 96	253	3,798 61	28 58	2,284 68		180 00	24 00	
Harvey	Albert	165 33	378	8,686 21	54 41	3,074 64		245 00	10 00	
Hillsborough	York	331 93	238	4,218 82	27 26	1,073 78		309 00		
Hopewell Cape	Harvey Station	638 69	888	19,141 36	128 21	5,831 84		56 20	309 00	
Indian Town	do	269 30	169	2,685 30	21 41	2,685 19		100 00		
Jacksonville	St. John	710	710	13,207 51	98 60	3,983 94		630 00		100 00
Kingsclear	Carleton	135 11	156	3,415 82	23 17	118 20		62 00		
Kingston	York	91 47	114	1,364 58	9 62	490 10		32 00		
Kingston, Kent	Kent	1,118 85	706	12,906 09	88 81	6,639 02		420 00		40 00
Kingston, King's	King's	83 67	13	136 19	1 51	259 41		124 00		
Kintore	Victoria	32 42	58	705 75	5 70	532 10		24 00		
Kouchibouguac	Kent	186 00	71	1,786 70	11 47	617 76		76 00		
Lepreau	Charlotte	211 46	32	282 52	2 60	360 84		72 00	10 00	
Markhamville	King's	113 84	29	338 86	3 05	55 52		36 00		
Merranook	Westmoreland	262 79	324	6,719 80	44 37	6,723 06		22 90	132 00	
Middle Sackville	do	378 67	116	1,280 87	9 86	242 75		144 00		
Millerton	Northumberland	244 17	434	6,077 01	44 88	403 02		95 00		
Milltown	Charlotte	860 34	369	4,826 22	48 25	1,028 70		340 00		40 00
Millville	York	186 57	76	904 27	7 05	414 92		60 00		
Moncton	Westmoreland	9,871 06	5,859	94,744 86	716 10	55,850 66		2,290 00	100 00	
Narrows	Queen's	342 70	122	3,771 92	27 27	895 22		50 00	100 00	
Newcastle	Northumberland	2,787 59	1,384	22,145 22	164 74	9,941 11		63 01	950 00	
New Mills	Restigouche	358 44	146	1,968 76	14 11	622 42		5 09	140 00	
Oromocto	Sunbury	317 10	90	1,686 99	12 21	1,475 14		5 85	124 00	
Ossesag	King's	449 57	377	5,721 38	41 76	1,250 67		15 24	190 00	
Penabscue	do	355 22	255	3,624 40	29 46	2,961 87		9 65	140 00	
Peftodiac	Westmoreland	1,270 63	772	19,951 55	121 91	7,363 46		53 39	480 00	
Petit Rocher	Gloucester	481 84	265	5,596 81	35 83	1,904 45		14 24	130 00	
Portland	St. John	1,841 78	450	7,042 08	64 56	6,203 15		320 65	320 00	
Richibucto	Kent	953 98	783	16,108 08	105 72	4,897 50		44 50	385 00	40 00
Richmond Corner	Carleton	68	68	541 09	4 70	237 73		36 00	8 00	
River Charlo	Restigouche	256 54	86	1,710 73	12 60	691 13		4 53	52 00	
River Louise	do	106 71	164	3,481 32	20 55	639 02		8 91	35 00	
Rockland	Westmoreland	92 31	27	490 58	3 52	661 87		40 00		
Rothsay	King's	479 25	93	1,369 90	10 80	1,149 78		192 00	20 00	
St. Andrews	Charlotte	1,571 01	850	14,862 12	119 92	6,360 32		43 32	980 00	120 00
St. George	do	1,034 17	1,150	20,003 37	139 11	5,341 89		55 94	462 00	40 00
St. John	St. John	42,157 50	8,629	128,899 49	1,159 15	451,765 71	+			
St. Martin's	do	537 70	354	6,345 94	44 51	4,519 42		19 16	180 00	
St. Stephen	Charlotte	4,107 76	1,600	18,849 75	154 78	22,166 25		55 90	1,050 00	
Sackville	Westmoreland	2,597 34	1,771	19,049 87	157 51	31,504 44		85 58	850 00	100 00
Salisbury	do	686 81	545	7,361 47	52 68	2,474 22		19 16	290 00	
Shediac	do	1,909 32	822	24,882 34	160 19	14,403 39		69 64	560 00	80 00

+ Salaries, &c., entered elsewhere.



STATEMENT showing the Money Order Offices in operation, &c., in New Brunswick—*Concluded.*

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation paid to Postmasters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Sheffield.....	Simbury.....	112 50	227	7,204 29	43 64	1,589 20	18 12	186 00	.....	.....
Shippigan.....	Gloucester.....	222 95	79	1,855 61	12 72	337 71	4 72	96 00	20 00	.....
Springfield.....	King's.....	262 13	215	5,083 09	40 91	2,083 77	15 32	100 00	40 00	.....
Stanley.....	York.....	171 49	185	2,557 33	18 67	554 15	6 97	60 00	.....	.....
Sussex Vale.....	King's.....	2,081 27	1,577	20,554 56	161 44	19,920 57	61 93	700 00	100 00	.....
Tracadie.....	Gloucester.....	322 29	198	5,205 31	31 80	255 51	13 13	116 00	.....	.....
Upham.....	King's.....	29 50	33	1,267 01	8 42	265 20	3 40	16 00	.....	.....
Upper Gagetown.....	Queen's.....	111 45	152	2,973 30	20 80	445 98	8 11	40 00	.....	.....
Weldford.....	Kent.....	896 53	625	14,283 31	94 45	3,515 76	38 72	380 00	12 00	40 00
Welsford.....	Queen's.....	247 37	145	1,938 46	13 85	923 19	6 35	84 00	10 00	.....
Woodstock.....	Carleton.....	4,730 58	1,677	25,339 97	202 57	26,640 01	79 31	1,180 00	400 00	.....
Totals.....		126,493 32	55,493	954,767 43	7,129 12	907,097 65	2,225 24	24,400 34	3,171 34	879 99

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

## PROVINCE OF MANITOBA.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster at each Office respectively, during the Year ended 30th June, 1889.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Com-pensation paid to Post-masters on business.	Salary.	Forward Allow-ance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Birtle.....	Marquette.	1,753 43	617	13,306 54	98 01	14,490 04	43 46	575 00	16 00	80 00
Boissevain.....	Selkirk.	1,574 97	382	14,746 23	87 24	10,794 15	39 32	440 00	60 00	80 00
Brandon.....	do	11,099 75	2,268	44,445 97	353 44	42,198 63	143 39	2,460 00	200 00	470 00
*Carnan.....	do	432 52	161	6,472 90	39 98	1,618 40	16 72	100 00	6 00	.....
Donnison City.....	Provencher.	484 77	169	4,903 95	32 73	2,822 08	13 63	200 00	.....	.....
Elkhorn.....	Provencher.	1,008 20	269	7,277 23	51 40	3,127 32	22 34	637 50	100 00	165 00
Emerson.....	Marquette.	1,281 10	735	15,335 02	110 34	9,377 10	42 46	360 00	12 00	40 00
+Gladstone.....	Selkirk.	803 47	667	20,692 45	125 27	3,170 48	54 67	75 00	10 00	10 00
+Killarney.....	do	211 20	23	471 46	3 56	954 23	1 30	.....	.....	.....
+Manitou.....	do	1,910 14	628	16,968 38	112 95	6,118 42	44 48	516 00	120 00	80 00
Minnedosa.....	Marquette.	2,101 34	1,122	25,510 27	176 50	11,551 40	71 57	600 00	30 00	100 00
Morden.....	Selkirk.	2,678 81	1,149	30,175 88	204 50	13,620 93	80 28	600 00	80 00	.....
Morris.....	Provencher.	756 95	221	6,549 23	44 65	2,138 89	17 63	273 34	.....	26 66
Neepawa.....	Marquette.	1,976 42	1,084	40,755 52	243 91	8,320 36	108 05	420 00	32 00	60 00
Pilot Mound.....	Selkirk.	1,536 87	418	13,456 17	91 35	8,952 40	35 81	350 00	52 00	40 00
Portage la Prairie.....	Marquette.	6,927 05	2,127	41,584 62	328 57	20,774 31	113 23	1,725 00	80 00	270 00
Rapid City.....	do	1,330 56	721	22,581 88	142 41	8,730 41	63 30	490 00	.....	80 00
+Russell.....	do	57 34	55	815 66	6 79	16 85	2 04	57 50	5 00	.....
Selkirk.....	Lisgar.	1,156 47	591	11,297 44	80 06	4,455 88	33 19	350 00	30 00	40 00
Souris.....	Selkirk.	1,099 80	354	9,180 87	59 65	3,813 31	25 39	310 00	24 00	20 00
Stonewall.....	Lisgar.	841 90	334	8,460 77	59 95	4,518 16	23 72	316 00	24 00	40 00
Virden.....	Selkirk.	2,874 56	597	17,695 84	120 43	8,206 62	46 34	650 00	30 00	100 00
Winnipeg.....	Lisgar.	63,516 05	11,131	185,746 57	1,724 43	306,836 79	.....	.....	.....	.....
Totals.....		107,408 18	25,823	558,430 84	4,298 12	496,627 76	1,042 32	11,785 34	967 00	1,781 66

\*Opened 1st January, 1889.

+Opened 1st April, 1889.

‡Late Archibald.

\$ Salaries, &amp;c., entered elsewhere.

W. I. SMITHSON,

Accountant.

WILLIAM WHITE,

Deputy Postmaster-General.

## NORTH-WEST TERRITORIES.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster at each Office respectively, during the Year ended 30th June, 1889.

Name of Office.	Territory.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Paid.	Compensation paid to Postmasters on business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Benif .....	Alberta .....	1,522 30	649	17,078 38	125 27	6,004 57	44 59	560 00		70 00
§Battleford.....	Saskatchewan.....	167 04	73	1,895 64	12 36	238 83	4 74	85 00		10 00
Broadview .....	Assiniboia .....	767 88	167	3,805 12	29 89	6,979 30	21 18	360 00		20 00
Calgary .....	Alberta .....	7,820 03	2,261	43,556 96	381 10	24,253 53	124 98	1,680 00	300 00	
+Cannington Manor.....	Assiniboia .....	289 30	107	1,546 02	15 58	579 65	4 42	90 00		
†Edmonton .....	Alberta .....	739 11	311	4,938 46	40 01	113 92	12 35	250 00	30 00	45 00
Fort McLeod.....	do .....	1,640 95	1,044	27,092 25	202 39	4,858 38	70 99	580 00	40 00	80 00
*Lethbridge .....	do .....	1,712 11	994	19,744 33	172 61	3,050 75	51 15	504 00	60 00	65 00
Maple Creek .....	Assiniboia .....	1,270 76	348	12,134 48	86 75	2,603 67	30 89	320 00		80 00
Medicine Hat .....	do .....	1,811 53	1,055	34,372 93	245 66	4,481 18	88 47	475 00		100 00
Moose Jaw .....	do .....	1,394 56	460	14,469 57	97 01	5,711 05	39 85	573 33	8 00	100 00
Mosomin .....	do .....	2,328 86	631	20,284 03	130 37	17,877 96	71 67	660 00	150 00	110 00
*Prince Albert .....	Saskatchewan.....	1,107 73	437	11,244 42	75 15	2,269 94	29 73	450 00		60 00
Qu'Appelle .....	Assiniboia .....	930 02	309	7,976 43	57 97	4,698 06	23 60	420 00		50 00
Qu'Appelle Station .....	do .....	1,621 52	249	4,936 66	41 08	5,094 16	16 53	624 00	360 00	80 00
Regina .....	do .....	6,815 95	1,619	35,932 41	266 83	17,626 09	96 74	1,600 00	60 00	360 00
§Saltcoats .....	do .....	148 22	27	976 71	5 71	230 10	2 66	75 00		
Swift Current .....	do .....	842 52	196	3,116 23	28 69	700 33	8 12	215 00	140 00	30 00
†Whitewood Station.....	do .....	515 43	112	2,725 23	19 05	1,740 92	9 60	147 50	50 00	
Wolseley .....	do .....	642 12	104	2,714 70	20 26	3,462 45	9 69	300 00	30 00	
Totals .....		33,985 44	11,153	270,562 76	2,053 74	112,374 84	761 95	9,968 83	1,228 00	1,560 00

\* Opened 1st October, 1888.

† Opened 1st January, 1889.

‡ Closed 8th October, 1888, and re-opened 1st April, 1889.

§ Opened 1st April, 1889.

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

PROVINCE OF BRITISH COLUMBIA.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster at each Office respectively, during the Year ended 30th June, 1889.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation Paid to Postmasters on M.O. business.	Salary.	Forward Allowance.	Allowance towards Rent, Fuel and Light.
Ashcroft Station.	Yale.	\$ 571 21	460	12,884 18	\$ cts. 85 84	\$ cts. 8,519 66	\$ cts. 33 37	\$ 180 00		
Barkerville.	Cariboo.	321 68	851	19,285 13	128 66	1,623 91	48 89	155 00	16 00	
Cheminus.	Vancouver.	344 98	215	3,832 63	31 95	1,376 65	9 91	156 00		
Chilliwack.	New Westminster	621 83	827	22,907 37	152 71	11,244 03	58 21	220 00		
Clinton.	Cariboo.	602 67	457	10,238 55	74 41	2,204 86	26 13	240 00	200 00	60 00
Comox.	Vancouver.	626 92	751	17,601 23	132 91	3,271 32	45 51	124 00		
Coutlee.	Yale-Kootenay.	81 31	87	1,473 13	12 35	76 40	3 71	37 50		
Hope.	Yale.	168 37	92	1,827 84	14 35	485 50	4 79	95 00		
Kamloops.	do	2,515 02	1,370	37,668 70	250 47	7,423 52	95 74	560 00	160 00	120 00
Ladner's Landing.	New Westminster	858 98	702	16,223 48	122 58	5,743 11	41 61	240 00		
+Langley.	do	162 18	172	7,620 52	45 33	996 42	19 29	60 00		
Lytton.	Yale.	360 87	240	8,689 77	55 90	1,386 24	22 10	154 00		
Nanaimo.	Vancouver.	4,084 48	4,155	90,251 15	857 04	12,003 01	233 44	807 00		
New Westminster.	New Westminster	7,385 78	3,507	80,307 46	640 65	41,797 04	216 95	1,600 00	500 00	
Nicola Lake.	Yale.	551 35	286	9,286 76	60 31	3,477 04	25 14	105 00		
North Saanich.	Vancouver.	125 00	96	1,157 20	12 35	323 90	2 90	52 00		
Port Hammond.	New Westminster	217 55	306	5,087 83	41 37	1,249 75	12 88	86 00		
Quamichan.	Victoria	425 90	241	2,288 62	24 74	2,301 26	8 80	120 00		
Quesnelle.	Cariboo.	269 96	556	17,376 04	104 19	1,344 82	43 63	144 00		
Soda Creek.	do	182	182	4,076 41	28 77	913 42	10 82	70 00		
Spence's Bridge.	Yale.	183 86	383	7,938 84	53 50	1,027 09	19 88	154 00	20 00	
Sumas.	New Westminster	143 46	130	3,080 59	19 91	1,328 14	7 88	68 00		
Vancouver.	do	14,583 51	6,620	127,749 66	1,089 92	56,697 23	343 85	2,500 00	120 00	120 00
Victoria.	Victoria.	28,049 59	9,662	161,054 63	1,603 86	147,087 80	93 34	250 00		
Wellington.	Vancouver.	961 46	1,504	36,026 96	364 72	2,229 90	32 90	290 00		40 00
Yale.	Yale.	281 65	375	12,956 52	80 84	1,626 62				
Totals.		64,665 52	34,227	718,891 19	6,129 63	317,964 54	1,461 67	8,460 50	1,016 00	340 00

\* Opened 1st October, 1888. W. H. SMITHSON, Accountant.  
+ Opened 1st January, 1889. WILLIAM WHITE, Deputy Postmaster-General.  
+ Salaries, &c., entered elsewhere.

# PROVINCE OF PRINCE EDWARD ISLAND.

STATEMENT showing the Money Order Offices in operation; the gross Postal Revenue; the Number and Amount of Money Orders issued and paid; the Amount of Commission thereon; and the Compensation, Salary and Allowances paid to the Postmaster of each Office respectively, during the Year ended 30th June, 1889.

Name of Office.	County.	Gross Postal Revenue.	Number of Money Orders Issued.	Total Amount of Money Orders Issued.	Total Commission received from Public.	Total Amount of Money Orders Paid.	Compensation Paid to Postmasters on M.O. business.	Salary.	Forward Allowances.	Allowance towards Rent, Fuel and Light.
		\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Alberton.....	Prince	1,034 01	483	9,136 25	64 22	6,306 30	32 96	360 00	20 00	40 00
Charlottetown.....	Queen's	12,233 99	3,726	68,792 85	610 85	74,949 42	*			
Georgetown.....	King's	750 60	376	10,258 01	66 43	5,437 03	33 89	400 00	100 00	20 00
Kensington.....	Prince	571 16	204	3,510 62	24 62	1,334 94	9 26	186 00	80 00	
Montague Bridge.....	King's	882 32	498	11,503 76	79 92	5,651 54	37 69	280 00	100 00	
Souris East.....	do	1,141 08	407	5,982 95	46 43	6,033 33	25 47	390 00	80 00	40 00
Stanley Bridge.....	Queen's	260 32	123	2,700 39	19 73	1,101 39	7 52	70 00		
Summerside.....	Prince	3,735 42	1,274	21,948 00	166 49	23,766 19	69 08	1,080 00	120 00	
Tignish.....	do	668 54	112	1,874 80	13 68	843 06	5 57	230 00	16 00	
Victoria.....	Queen's	313 46	168	4,400 62	28 16	1,961 75	13 05	80 00		
Totals.....		21,590 90	7,371	130,108 25	1,020 53	127,404 95	234 49	3,076 00	516 00	100 00

\* Salaries, &c., entered elsewhere.

W. H. SMITHSON,  
Accountant.

WILLIAM WHITE,  
Deputy Postmaster-General.

STATEMENT (in accordance with the Act 52 Vic., Chap. 20, Sec. 12) of the Post Office Savings Bank transactions during the year ended 30th June, 1889, and of the total amount due to depositors at the close of that period.

	\$	cts.		\$	cts.
Balance due to depositors on 30th June, 1888.....	20,689,032	62	Repayments to depositors during the year.....	7,532,145	56
Deposits received during the year ...	7,926,634	00	Balance due to depositors on 30th June, 1889 :—		
Amount of depositors' accounts transferred from closed Agencies of the Dominion Government Savings Bank during the year.....	1,085,979	72	At credit of open \$ cts. accounts.....	22,929,873	01
Interest allowed to depositors during the year, in accordance with the statute.....	841,921	79	Withdrawal Cheques held by depositors and not presented for payment.....	81,549	56
				23,011,422	57
	30,543,568	13		30,543,568	13

WILLIAM WHITE,

*Deputy Postmaster-General.*

DAVID MATHESON,

*Superintendent, Savings Bank Branch.*

**ANALYSIS of the Money Order Business of the Dominion of Canada, for the  
Year ended 30th June, 1889.**

	No. of Orders.	\$ cts.	\$ cts.
Total amount of Money Orders issued in Ontario.....	365,824		5,547,482 12
do do Quebec.....	74,195		1,321,589 16
do do Nova Scotia.....	99,727		1,764,088 20
do do New Brunswick.....	53,493		954,767 43
do do Manitoba.....	25,823		558,430 84
do do North-West Territories.....	11,153		270,562 76
do do British Columbia.....	34,227		718,891 19
do do Prince Edward Island..	7,371		130,108 25
Total number and amount of Money Orders issued.....	673,813		11,265,919 95
Total amount of Money Orders paid in Ontario.....		5,268,129 39	
do do Quebec.....		1,577,448 61	
do do Nova Scotia.....		1,626,467 73	
do do New Brunswick.....		907,097 65	
do do Manitoba.....		496,627 76	
do do North-West Territories.....		112,374 84	
do do British Columbia.....		317,964 54	
do do Prince Edward Island.....		127,404 95	
			10,433,515 47
Total amount of Money Orders issued and paid.....			21,699,435 42
Savings Bank deposits received through Money Order Offices.....			7,926,634 00
do withdrawals paid do.....			7,532,145 56
Total amount of business transacted during the Year.....			\$37,158,214 9

W. H. SMITHSON,  
*Accountant.*

WILLIAM WHITE,  
*Deputy Postmaster-General.*

STATEMENT showing the losses sustained in collecting the Postal Revenue and conducting the Money Order and Savings Bank systems in the Dominion of Canada, brought to account during the Year ended 30th June, 1889.

Post office funds lost in transmission from the Post Office at Bancroft, Ont., to the Bank of Montreal, Ottawa, on 18th October, 1888.....	\$	cts.
	80	00
Postage stamps destroyed by fire at Bennington, Ont., on 9th November, 1888.....	2	75
Postage stamps stolen by burglars from Blenheim, Ont., in December, 1885.....	187	18
Postage stamps stolen by burglars from Bothwell, Ont., 4th February, 1888.....	33	00
Postage stamps destroyed by fire at Bridgewater, Ont., on 24th of May, 1889.....	3	38
Postage stamps destroyed by fire at Chesley, Ont., on 9th June, 1888.....	5	00
Money order funds stolen by burglars from Chesterville, Ont., in June, 1888.....	50	00
Post office funds stolen by burglars from Clarke, Ont., on 28th September, 1888.....	19	50
Postage stamps destroyed by fire at Dacre, Ont., on 7th October, 1884.....	35	00
Postage stamps destroyed by fire at Dale, Ont., on 23rd February, 1889.....	9	75
Postage stamps stolen by burglars from Embrun, Ont., on 25th August, 1888.....	45	00
Postage stamps destroyed by fire, while in transit to Postmaster, Fort Francis, Ont., through burning of postal car on 3rd October, 1886.....	36	00
Amount allowed on account of Post Office funds stolen by burglars from Fort William West, Ont., on 15th September, 1888.....	36	00
Postage stamps destroyed by fire at Garden River, Ont., on 3rd October, 1888.....	7	50
Postage stamps stolen by burglars from Harrowsmith, Ont., on 21st October, 1888.....	30	00
Post office funds lost in transmission from Hilton, Ont., to the Post Office Inspector at Kingston.....	13	50
Post office funds lost in transmission from Keene, Ont., to the Bank of Montreal at Ottawa, on 18th October, 1888.....	\$	cts.
	59	75
Post office funds lost in transmission from L'Amable, Ont., to the Bank of Montreal at Ottawa, on 18th October, 1888.....	70	00
Postage stamps stolen by burglars from Martintown, Ont., on 27th October, 1888.....	60	00
Post office funds lost in transmission from Mount Brydges, Ont., to the Bank of Montreal at Ottawa, on 13th December, 1888.....	40	00
Post office funds stolen by burglars from Norwood, Ont., on 10th December, 1887.....	23	96
Postage stamps and post office funds stolen by burglars from Orono, Ont., on 7th October, 1888.....	87	98
Postage stamps and post office funds stolen by burglars from Pembroke, Ont., on 20th April, 1889; postage stamps \$552.10, cash \$115.80.....	667	90
Postage stamps destroyed by fire at Port Maitland, Ont., on 9th January, 1889.....	4	00
*Post office funds lost in transmission from Sault Ste. Marie, Ont., to the Bank of Montreal, Ottawa, on 2nd November, 1888.....	417	61
Postage stamps and post office funds stolen by burglars from Smith's Falls, Ont., on 13th October, 1888.....	419	30
Loss on counterfeit bank note taken in Province of Ontario.....	2	00
Post office funds lost in transmission from Vienna, Ont., to the Bank of Montreal, Ottawa, on 3rd December, 1888.....	675	00
Post office funds lost in transmission from Warkworth, Ont., to the Bank of Montreal, Ottawa, on 18th October, 1888.....	290	00
Money paid by the Postmaster to Ex-Postmaster at West Huntingdon, Ont., through misunderstanding on the 7th January, 1887.....	3	00



STATEMENT showing losses sustained in collecting Postal Revenue, &c.—*Con'd.*

Allowance for postage stamps and portion of cash stolen by burglars from Whitby, Ont., on 11th Janunry, 1889.....	396 02
Postage stamps lost through error of late clerk at Windsor, Ont., in December, 1885 .....	8 09
Postage stamps destroyed by fire at Zimmerman, Ont., on 18th May, 1889. ....	20 00
Postage stamps stolen by burglars from Denisons Mills, Que., on 14th December, 1888.....	20 00
Postage stamps stolen by burglars from the sub-office at Notre Dame de Lévis, Que., on 10th May, 1887.....	88 92
Postage stamps destroyed by fire at St. Jean Baptiste de Rouville, Que., on 9th October, 1888.....	50 00
Postage stamps stolen by burglars from Annapolis, N.S., on 27th May, 1886, (\$112.41 of this amount having been deposited to balance of Postmaster's current account, and the difference, \$15.30, remitted directly to the Postmaster).....	127 71
Postage stamps destroyed and Post office funds stolen by burglars at Aylesford, N.S., on 31st July, 1888, postage stamps, \$10.28 ; cash \$24.81.....	35 09
Postage stamps destroyed by fire at Rawdon Gold Mines, N.S., 11th June, 1888. ....	30 75
Post office funds stolen by burglars from Campbellton, N.B., in September, 1882.....	106 17
Loss on Maritime Bank Bills taken at Grand Falls, N.B., on Money Order Account in March, 1887.....	14 00
Difference in balance of stamps on hand at St. John, N.B., on transfer of office on 10th November, 1886.....	2 00
Postage stamps destroyed by fire at Brandon, Man., on 13th February, 1889.....	69 66
Total .....	\$4,382 47

WILLIAM WHITE,  
*Deputy Postmaster-General.*

W. H. SMITHSON,  
*Accountant.*

\* This amount has been recovered since the close of the fiscal year, and will appear in Postmaster General's Report for 1889-90, as a miscellaneous receipt.

REPORT of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada; showing the particulars of each case, and stating the result of the proceedings instituted therein by the Department.

I.  
REGISTERED LETTERS.

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Reconciliation.
					Name.	Place.			
1	L. Cameron.....	St. Andrews East.....	1888. July 6..	\$ cts. 20 00	Wm. M. Doran...	Iroquois.....	Stated not to have been received by the person addressed.	There being no record of the despatch of this letter from the St. Andrews East Post Office, the Postmaster of that office made good contents.	3
2	G. M. Donaldson.	Vernon, Ont.....	do 13..	75 00	Ward, Carter & Co.	Montreal.....	do	Postmaster of Vernon having omitted to enter this letter on the Letter Bill of the mail from his office for St. Lawrence & Ottawa Railway Mail Clerk, made good contents.	3
3	Louis Belisle.....	Racine.....	do 16..	20 15	Louis Côté & frères	St. Hyacinthe...	Stated to have been received without contents.	Reason for believing that this abstraction was committed by a dishonest clerk in the Melbourne Post Office. Loss made good by the Postmaster of Melbourne. See case No. 19, class I.	5
4	G. A. Stafford.....	Fredericton Junction, N.B.	do 21..	5 00	Mrs. G. A. Stafford	Whitby.....	do	No evidence to account for the alleged discrepancy.	7

I. REGISTERED LETTERS.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Reconciliation.
					Name.	Place.			
5	Walter Dunnelt...	Rusagornis .....	1888. July 24..	\$ cts. 4 60	John Carr .....	Hamilton .....	Stated not to have been received by the persons addressed.	The bag containing these letters, made up at Rusagornis on 24th July, '88, for Oromocto, was cut open whilst lying at the Waasis Railway Station, and the letters stolen by a lad named Legee, a minor. Contents made good by the lad's parents. Evidence not of a nature to warrant prosecution.	8
6	G. A. Stafford....	do .....	do —..	5 00	B. Drysdale .....	Northport .....			
7	J. R. Booth.....	Le Breton Flats.	do 26..	60 44	Benjamin Sweeney	North Bay.....	do	This letter was mis-delivered at the Powassan Station Post Office. The person to whom it was mis-delivered, however, restored the contents to the person addressed.	3
8	Georgiana L'Hén- réux.	Chateau Richer..	do 29..	Gold brooch value 11 00	Mme. Henry Barthe	Sherbrooke.....	do	This registered packet was duly entered on Letter Bill of mail from Quebec for Sherbrooke, of 30th July, '88, and the postmaster of Sherbrooke, having failed to report it as not received with that mail, made good value of contents.	3
9	Louis Bélanger....	Côte des Neiges.	do 30..	10 00	Mrs. L. Bélanger..	Racine.....	Stated to have been received without contents.	Abstraction believed to have been committed by a dishonest clerk in the Melbourne Post Office. Loss made good by Postmaster of Melbourne. See case No. 19, class I.	5
10	Susie Mortimer....	Queensville.....	do 17..	5 00	R. S. Mann.....	Craigvale.....	do	No evidence to account for the alleged discrepancy.	7
11	Ernestine Duguay.	L'Avenir.....	Aug. 3..	10 00	Clark, Terroux & Co.	Montreal.....	Stated to have been received without contents.		

12	J. B. Brodeur.....	St. Hyacinthe..	do	8..	14 00	M. Deschamps.....	North Stukely..	Only \$4 stated to have been received.	These abstractions are believed to have been committed by a dishonest employé in the Mel-bourne Post Office.	5
13	Jos. Blanchard.....	Lewiston, Maine	do	10..	3 00	Antoine Blanchard	Val Racine.....	Stated to have been received without contents.	Losses made good by Postmaster of Melbournne.	
14	Mrs. M. Burnie.....	Pt. St. Charles..	do	15..	20 00	Mrs. L. Walker.....	Ulverton.....	do	See case No. 19, class I.	
15	Mrs. D. R. Borland	Ulverton.....	do	17..	10 00	Clendinning & Son	Montreal.....	do		
16	A. Guérin.....	Montreal.....	do	7..	20 00	John M. Guérin....	Toronto.....	Stated not to have been received by the person addressed.	This letter was mis-delivered by a Letter Carrier on the staff of the Toronto Post Office, and contents were made good by him.	3
17	McLean & Irwin.....	Kingsbury.....	do	10..	17 25	C. H. Fletcher.....	Sherbrooke.....	do	Postmaster of Kingsbury having failed to enter this letter on his Letter Bill for Melbournne, Que., made good contents.	3
18	Wm. Badger.....	Stroud.....	do	17..	50 00	Bank of Toronto....	Toronto.....	Only \$45 stated to have been received.	No evidence to account for the alleged discrepancy.	7
19	.....	Montreal.....	do	21..	3 00	W. A. Sneath.....	Melbournne.....	Stated to have been received without contents.	This was a decoy letter which was opened by J. S. Scott, an assistant in the Melbournne, Que., Post Office, and contents abstracted by him. Marked bills, contained in the letter, which had been paid out by Scott were obtained and identified, and Scott was arrested, but subsequently succeeded in escaping from the constable who arrested him. Losses made good by Postmaster of Melbournne.	5
20	Joseph Lagacé.....	Gatineau Point..	do	21..	2 00	Dominique Bray....	Embrun.....	Stated not to have been received by persons addressed.	Embrun Post Office entered by burglars night of 26th August, 1888, and these letters stolen. No clue obtained to perpetrators of the robbery.	9
21	Theophile Lachapelle.	Embrun.....	do	25..	1 00	La Presse.....	Montreal.....	do	There being no record of the despatch of this letter from the Cobocok Post Office, the Postmaster of that office made good contents.	3
22	Alex. McKay.....	Cobocok.....	do	24..	5 00	Miss Dora McKay.	Greenwood, Ont.	do	There being no record of the despatch of this letter from the Grenville Post Office, the Postmaster of that office made good contents.	3
23	T. Hoare.....	Grenville.....	do	25..	6 00	R. Sheppard.....	Ottawa.....	do	There being no record of the despatch of this letter from the Grenville Post Office, the Postmaster of that office made good contents.	3
24	W. H. Garrett.....	Trenton.....	do	28..	60 75	Citizens Ins. Co..	Montreal.....	Stated to have been received without contents.	No evidence to account for alleged discrepancy.	7

I. REGISTERED LETTERS.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada.—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
25	David de Coste....	Mattie, N. S....	1888. Aug. 31..	\$ cts. 20 00	D. G. Kirk.....	Antigonishe, N.S.	do do	Postmaster of Mattie having neglected to seal the bag in which this letter was despatched from his office, made good the loss.	5
26	Adélaïde Lacasse..	Thetford Mines..	do	72 00	J. H. Gendron....	Sherbrooke.....	Only \$62 stated to have been received.	Evidence taken in this case pointed strongly to the conclusion that this abstraction was committed at the Thetford Mines Post Office. The Postmaster of that office accordingly made good the loss.	5
27	A. B. Perry .....	Prince Albert....	Sept. 11..	57 35	Const. Shepherd..	Saskatoon .....	Stated not to have been received by persons addressed.	These letters are stated to have been despatched from Batoche to Saskatoon in mail of 17th Sept., 1888, but to have failed to reach the latter office. Cause of failure not discoverable.	2
28	A. Sproat .....	do	do 12..	1 00	A. McLean .....	do			
29	Jno. W. Reynolds..	Sharbot Lake....	do 11..	1 00	Miss C. Bedour....	Verona, .....	do	Verona Post Office entered by burglars on night of 15th Sept., 1888, and this letter stolen.	9
30	B. J. Kirkkouse ..	Montreal .....	do 17..	8 50	W. A. Meighen....	Perth .....	do	Stated to have been despatched from Montreal in registered package, contained in locked bag for Perth, on 17th Sept., 1888, but to have failed to reach the latter office. The Postmaster of Perth having failed to make a prompt report in the "case, made good contents of letter.	3
31	Capt. J. Martley..	Ashcroft Stat'n, B.C.	do 23..	50 00	W. Norman Bole..	New Westminster, B.C.	Stated to have been received without contents.	No evidence to account for the alleged discrepancy. Cover of letter not preserved.	7
32	Robert Gaston .....	Newaygo, Mich..	do 25..	40 00	E. Gaston .....	Smith's Falls....	Stated not to have been received by the person addressed.	Smith's Fall's Post Office entered by burglars 13th Oct., 1888, and this letter stolen. Contents made	8

33	Mrs. Susan Vance.	Hepworth Stat'n	do	25..	75 00	Hobbs Hardware Co.	London, Ont. . . . .	Only \$70 stated to have been received.	No evidence to account for the alleged discrepancy. Cover of letter not preserved.	7
34	Dr. Leitch . . . . .	Clarke . . . . .	do	27..	1 00	Davis, Lawrence & Co.	Montreal . . . . .	Stated not to have been received by persons addressed.	Stolen from the Clarke Post Office by burglars on the night of 27th Sept., 1888.	9
35	Mrs. Susan Vance.	Hepworth Stat'n	Oct.	1..	65 15	A. Robinson . . . . .	London, Ont. . . . .	Only \$55.15 stated to have been received.	No evidence to account for the alleged discrepancy. Cover of letter not preserved.	7
36	Gordon & McIntyre.	Wingham . . . . .	do	5..	19 00	John D. Ivey & Co.	Toronto . . . . .	Only \$14 stated to have been received.	No evidence to account for the alleged discrepancy.	7
37	S. R. Carrick . . . . .	Anthracite . . . . .	do	5..	17 82	Joseph Marlin . . . . .	Moffat, Wolsley.	Only \$12.82 stated to have been received.	do	7
38	Mrs. Samuel Carson.	Nipissing . . . . .	do	12..	6 00	R. Miller . . . . .	Pembroke . . . . .	Stated not to have been received by the person addressed.	Stated to have been despatched from Nipissing to Gravenhurst and North Bay Mail Clerk on 12th Oct., 1888, but to have failed to reach the latter officer. Postmaster of Nipissing, admitting the possibility of letter having been mis-sent by him, made good contents.	3
39	The Postmaster . . . . .	Bancroft . . . . .	do	17..	95 00	} Bk. of Montreal.	Ottawa . . . . .	Stated not to have been received by persons addressed.	These letters were contained in a registered package stated to have been despatched from Brockville and Carleton Place Railway Mail Clerks to Ottawa on 19th Oct., 1888, but to have failed to reach the latter office; cause of failure not discoverable.	2
40	do . . . . .	L'Amable . . . . .	do	18..	70 00					
41	do . . . . .	Keene . . . . .	do	18..	59 75					
42	do . . . . .	Warkworth . . . . .	do	18..	290 00					
43	Mrs. C. Lippe . . . . .	Montreal . . . . .	do	29..	32 25	Napoléon Demers.	St. Pierre Baptiste.	Stated not to have been received by the person addressed.	The registration of this letter having been dropped at the Inverness Post Office, the Postmaster made good contents.	3
44	E. Biggings . . . . .	Sault Ste. Marie.	Nov.	1..	0 33	Barber & Ellis . . . . .	Toronto . . . . .	{	These letters were contained in a mail bag made up at Sault Ste. Marie on 2nd November, 1888, for Windsor, Ont., <i>via</i> Detroit, Mich., which failed to reach the Windsor Office. This bag was found in the woods near Soo Junction, Mich., on the 12th July, 1889; all of the registered	
45	H. C. Gorkie . . . . .	do . . . . .	do	1..	10 30	John Hallam . . . . .	do . . . . .			
46	Jos. Wilson . . . . .	do . . . . .	do	1..	524 02	Bank of Montreal.	do . . . . .			
47	Thos. Vivian . . . . .	do . . . . .	do	1..	15 00	Patton & Co. . . . .	do . . . . .			
48	A. Lauzon . . . . .	do . . . . .	do	1..	4 00	Mrs. Lascelles . . . . .	Plaisance, Que. . . . .			
49	Mrs. W. C. Dunseath.	do . . . . .	do	1..	25 00	Mrs. M. J. Clarke.	Blantyre . . . . .			

I. REGISTERED LETTERS.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada.—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence or Loss of Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recaptulation.
					Name.	Place.			
50	J. Gillis.....	do	1888.	\$ cts.	John Fraser.....	Dunblane.....	{	letters contained in the bag were found to have been opened and rifled with the exception of one containing \$417.61 sent by Postmaster, Sault Ste. Marie, to Bank of Montreal, Ottawa, which was found intact.	7
51	Mrs. Hollinthead..	do	Nov. 1..	3 00	W. A. Copeland..	Collingwood....			
52	W. R. Cunningham	do	do 1..	13 55	Peoples Milling Co.	Meaford.....			
53	Thos. Vivian.....	do	do 1..	29 00	Jas. McLaughlan..	Owen Sound....			
54	Mrs. E. A. Hutton	Arnprior.....	do 1..	22 00	Mrs. Thos. Joyce..	Griffith, Ont....	Only \$12 stated to have been received.	No evidence to account for the alleged discrepancy.	7
55	Miss Edgar.....	Toronto.....	do 1..	6 00	Mrs. Robt. Burke.	Waldemar.....	Only \$5 stated to have been received.	do	7
56	H. Nelson, jun....	Simcoe.....	do 7..	19 00	J. Parks.....	Jarvis.....	Only \$14 stated to have been received.	Evidence in this case showed that proper precaution had not been exercised in the treatment of this letter at the Simcoe and Jarvis Post Offices. The loss was therefore made good by the Postmasters of these offices jointly.	5
57	A. Goyer.....	Montreal.....	do 9..	25 00	Joseph Mayer.....	St. Félix de Valois.	Stated not to have been received by the person addressed.	Stolen by a servant in the employ of the Postmaster of St. Félix de Valois, named Merelisse Godin, who was tried and sentenced to 5 years in the penitentiary. Contents made good by Postmaster, St. Félix de Valois. (See Case No. 78, Class I.)	3
58	Miss A. B. Munroe	Boston, Mass. ...	do 26..	5 00	Miss Jane Munroe.	Brookland, N.S.	do	This letter is stated to have been transferred by Halifax and Moncton Railway Mail Clerks to Truro and Pictou Railway Mail Clerks on 28th Nov., 1888, and is believed to have been lost or mis-sent by the latter Clerks. Contents made good by the Clerk in charge on the occasion.	3

59	John Armstrong	Kinloss.	do	28..	10 00	John Young	Kinlough	Stated not to have been received by the person addressed.	This letter is stated to have been duly despatched in mail from Kinloss for Kinlough, of 28th Nov., '88, and the Postmaster of the latter office, who states that he did not receive any letter bill or registered letter with the mail, having failed to report the circumstance in due time, made good contents.	3
60	Po. Office Inspector	London	Dec.	3..	675 00	} Bank of Montreal	Ottawa	Stated not to have been received by the persons addressed.	The mail in which these letters were contained, despatched from London to Ottawa on 3rd Dec., '88, stated not to have reached the latter office, cause of failure not discoverable.	2
61	The Postmaster	Mount Brydges	do	3..	40 00					
62	Wm. Magee	Barnsley, Man.	do	7..	30 00	Mrs. Wm. McGee	Winnipeg	do	There being no record of the despatch of this letter from the Barnsley Post Office, the Postmaster of that office made good contents.	3
63	Miss H. Lennon	Greenwood	do	12..	5 00	Miss K. M. Lennon	Fairbank	do	Stolen from the Davenport Post Office, by a youth named Walter Camp in the employ of the Postmaster, who was tried for the offence and sentenced to 3 years in the Reformatory Prison at Penetanguishene, contents made good by Postmaster of Davenport.	3
64	A. C. McDonald	Cornwall, P. E. I.	do	12..	5 00	Family Herald and Star	Montreal	Stated to have been received without contents.	Abstraction committed by a youth who had obtained access to the correspondence passing through the Charlottetown Post Office. Contents recovered.	5
65	W. J. Rickaby	Glenarn	do	18..	4 00	Walter Bennister	Beaverton	Stated not to have been received by the person addressed.	Evidence showed that this letter was lost or mislaid in the Toronto Post Office. Contents made good by a clerk in that office through whose hands the letters should have passed, but who was unable to account for it.	3
66	Benjamin Smith	Wyanett, Ill.	do	19..	25 00	John Smith	Rathburn	Only \$20 stated to have been received.	Circumstances pointed to the conclusion that the abstraction was committed in the Rathburn Post Office, the management of which was most unsatisfactory. Postmaster removed.	6



I. REGISTERED LETTERS.—Report of all cases occurring within the Year ending 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada.—*Continued*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
67	Mrs. M. Edwards.	St. John Suburb.	1888. Dec. 21.	\$ cts. 3 00	John Dougall & Son	Montreal.	Stated not to have been received by the persons addressed.	There being no record of the dispatch of this letter from the St. John Suburb's Post Office, the Postmaster of that office made good contents.	3
68	Singer M'fg. Co.	Orangeville.	do 22.	6 72	A. Erb.	Arthur.	do	Contained in a mail bag lost whilst in charge of courier on Arthur & Railway Station route. Contents of letter made good by the mail contractor for route in question.	3
69	Thomas McGee.	McKellar.	do 24.	8 00	Robert A. Laurie.	Perry Sound.	do	This letter was mis-delivered at the Parry Sound Post Office. Contents subsequently recovered from party to whom letter was mis-delivered.	3
70 71	David Arnott. do	Lakefield. do	do 27. do 27.	7 25 22 13	Wm. Buck. Barrow, Stewart & Hamilton Milne.	Brantford & Hamilton	Stated not to have been received by the persons addressed.	Contained in mail package despatched from Lakefield to Toronto on 27th Dec., 1888, stated not to have reached the latter office.	2
72	John McIrvy.	Trenton.	do 31.	3 00	Mrs. G. R. Hambley	Macdonald	do	Evidence pointed to the conclusion that this letter had disappeared in the Macdonald Post Office. Contents made good by Postmaster of that office.	3
73	Eusèbe Fugère.	Thetford Mines.	1889 Jan. 2.	56 00	Thomas Roy.	East Broughton.	Only \$46 stated to have been received.	Evidence in this case pointed strongly to the conclusion that the letter had been tampered with at the Thetford Mines Post Office. Deficiency made good by Postmaster of that office. See case No. 110.	5

74	M. Hayes.	Shenboro'.	do	5.	17 00	James Bowie.	Almonte.	Stated not to have been received by the persons addressed.	During the course of enquiry into these cases it was shown that at one of the offices through which the letters passed there had been a lack of proper supervision. The Postmaster, acknowledging his responsibility in the matter, made good contents.	8
75	Martin Sheedy.	McLaren's Depot.	do	5.	2 70	A. Menzie.	do			
76	Martin Sheedy.	Sheedy.	do	5.	27 00	McDonnell & Fraser.	do			
77	John Hampton.	Rosspart.	do	5.	9 00	Mrs. J. Woodward.	do			
78	F. X. S. Ferland.	St. Michel des Saints.	do	9.	13 00	E. Asselin.	St. Felix de Valois	Stated not to have been received by the person addressed.	Stolen by a servant in the employ of the Postmaster of St. Felix de Valois named Merhisse Godin who was tried and sentenced to 5 years in Penitentiary. Contents made good by Postmaster of St. Felix de Valois. See case No. 57, class I.	
79	D. Orniston.	Whitby.	do	10.	40 00	J. Brent.	Glen Major.			
80	W. H. Billings.	do	do	10.	16 00	Dr. F. Warren.	Brooklin.			
81	W. Bath.	do	do	10.	7 00	Western Bank.	Port Perry.			
82	E. H. Granton.	Ithica, N. Y.	do	8.	6 00	Emma Southwell.	Whitby.			
83	Maggie Taylor.	St. Mary's.	do	8.	1 25	W. H. Buel.	do			
84	W. Hessin.	Teeterville.	do	9.	3 92	do	do			
85	Jas. Cotton.	Nawan.	do	10.	3 92	do	do			
86	W. H. Tucker.	Norwood.	do	10.	8 25	Greenwood Oatmeal Milling Co.	Greenwood.			
87	M. Gleeson.	Greenwood.	do	10.	3 00	W. Burton.	Baddow.			
88	Mrs. R. Gibson.	Burgoyne.	do	15.	60 00	D. McCall & Co.	Toronto.	Only \$40 stated to have been received.	No evidence to account for the alleged discrepancy.	
89	T. E. Armstrong.	Wakefield.	do	21.	4 00	Miss Edith Armstrong.	Vars.	Stated not to have been received by the person addressed.	Evidence in the case pointed to the conclusion that the letter disappeared whilst under the charge of a mail clerk on the G. T. Railway running between Montreal and Kingston. Contents made good by clerk in question.	
90	Edmond Trudel.	St. Monique de Nicolet.	do	23.	19 00	Beauchemin & Fils.	Sorel.	Stated not to have been received by the persons addressed.	Stated to have been despatched in mail from La Baie to Sorel of 23rd January, 1889, but to have failed to reach the latter office. Enquiry failed to establish how or at what point letter disappeared, though a dishonest postmaster on the route was subsequently arrested, tried and sentenced for letter stealing. See No. 151.	
91	Isaac Mick.	Whitewood St'n.	do	25.	15 00	Wm. Page.	Whitewood St'n.	Only \$11 stated to have been received.	No evidence to account for the alleged discrepancy.	

I. REGISTERED LETTERS.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
			1889.	\$ cts.					
92	Jas. P. Duffy.....	Embsden, Maine.	Jan. 29..	10 00	Mrs. J. P. Duffy..	Byrnes' Road 39.	Stated not to have been received by the person addressed.	The registration of this letter was dropped at the Charlottetown Post Office. Contents made good by the clerk responsible for the irregularity.	3
93	Andrew McInroy..	Coe Hill Mines..	Feb. 7..	25 00	Mrs. E. McInroy.	West Huntingdon.	do	Registration of this letter was dropped by a railway mail clerk on Trenton and Coe Hill Mines route. Contents made good by clerk in question.	3
94	D. Cadieux.....	Quyon .....	do 12..	10 00	Hency & Lacroix..	Montreal .....	Stated to have been received without contents.	No evidence to account for the alleged discrepancy.	7
95	John Blyth.....	Hepworth .....	do 13..	20 20	W. H. Lipsey.....	London, Ont....	Only \$17.20 stated to have been received.	No evidence to account for the alleged discrepancy.	7
96	W. H. McMunrough.	Miscouche, P.E.I.	do 14..	5 00	L. McDonald.....	Bear River Station, P.E.I.	Stated not to have been received by the person addressed.	Stolen by a youth who had obtained access to the correspondence passing through the Charlottetown Post Office. Contents recovered.	8
97	John A. Allan.....	Wallaceburg .....	do 16..	7 00	Wm. Mathieson....	Kimball .....	Stated to have been received without contents.	No evidence to account for the alleged discrepancy.	7
98	Michel Lemieux...	Chaudière Curve	do 18..	10 00	Miss A. Lemieux..	Fabourg St. Henri Lauzon.	Stated not to have been received by the person addressed.	Evidence that this letter was despatched from the Chaudière Curve Post Office not sufficient. Contents made good by Postmaster of that office.	3
99	Ella McLeod .....	Brooklyn, N.S.	do 18..	13 00	E. M. McLeod.....	Wolfville, N.S.	do	These letters were stolen from the Wolfville Post Office by a youth who left the country before he could be apprehended. Contents recovered from the boy's father.	8
100	J. W. Ingraham...	N. Sydney, N.S.	do 19..	3 00	Miss A. Ingraham.	do	do		
101	M. A. Wallace.....	West Grove, N.S.	do 20..	20 00	J. J. Wallace.....	do	do		
102	Neil McLean .....	Aberdeen .....	do 25..	30 00	Miss M. Sheppard.	Burlington, Ont.	Stated to have been received without contents.	No evidence to account for the alleged discrepancy.	

103	.....	Bois Franc.....	do	21..	10 00	Pierre Beaupré.....	Pembroke	Stated not to have been received by the person addressed.	Pembroke Post Office entered by burglars on night of 20th April, 1889, and this letter stolen.	9
104	W. McFarlane.....	Almonte.....	Mar.	5..	0 75	"Free Press".....	Ottawa.....	(Stated not to have been received by the person addressed.)	Circumstances and final result the same as in cases 74-77.	3
105	Mrs. S. Metcalfe.....	do.....	do	5..	5 00	D. Craig.....	Dunrobin.....	do		
106	W. H. Stafford.....	do.....	do	5..	25 00	J. Coursolle & Co.....	Ottawa.....	do		
107	Jno. A. Waugh.....	Wallace Ridge, N. S.....	do	6..	25 00	W. R. Henderson.....	Henderson Settlement.	Stated to have been received without contents.	Evidence pointed to the conclusion that the letter was tampered with at the Wallace Ridge Post Office. Contents made good by Postmaster of Wallace Ridge.	5
108	Jean Rowe.....	Somerset, Que.....	do	6..	5 00	Siméon Lawrence.....	St. Hyacinthe.....	do	No evidence to account for the alleged disappearance of contents.	7
109	Jos. Cousineau.....	Ste. Thérèse de Blainville.....	do	6..	5 00	H. Lamontagne.....	Montreal.....	do	No evidence to account for the alleged discrepancy.	7
110	Eusèbe Fugère.....	Thetford Mines.....	do	7..	11 00	Xavier Paré.....	St. Pierre Broughton.	Only \$6 stated to have been received.	Evidence pointed strongly to the conclusion that this letter was tampered with at the Thetford Mines Post Office. Loss made good by Postmaster at that office. See case No. 73.	5
111	F. A. Gravel.....	St. Hyacinthe.....	do	8..	16 00	T. Berthiaume.....	Montreal.....	Stated not to have been received by the person addressed.	This letter is believed to have been stolen by a dishonest assistant at the St. Hyacinthe Post Office, who was subsequently convicted of unlawfully opening certain letters passing through that office, and sentenced to 1 month's imprisonment. Contents made good by Postmaster of St. Hyacinthe.	3
112	Fabien Ross.....	Indian River, Mich.....	do	10..	25 00	Miss Sophie Ross.....	Flurian, Que.....	(Stated to have been received without contents)	These abstractions are believed to have been committed by a dishonest assistant at the St. Lucie Station Post Office who was arrested but acquitted on trial.	5
113	Mrs. V. Desgagné.....	Sudbury.....	do	16..	20 00	Ernest Desgagné.....	St. Donat.....	do	Losses made good out of the stolen money discovered where the culprit had secreted it.	
114	Rev. M. Carboneau.....	Bic.....	do	18..	10 00	Rev. J. A. Lebanc.....	Flurian, Que.....	Only \$20.44 stated to have been received.		
115	The Postmaster.....	St. Donat.....	do	19..	40 44	Talbot & Parent.....	Rimouski.....	Only \$5 stated to have been received.		
116	do	do	do	19..	15 00	Wm. McLimont & Son.....	Quebec.....	do		
117	Miss Plummer.....	Manchester, N.H.....	do	16..	15 00	Miss E. R. Plummer.....	Glenloyd, Que.....	(Stated not to have been received by the person addressed.)	These letters were stolen by Wm. Wilton, a mail carrier on Becancour Station and Inverness route, who was tried and sentenced to 3 years in penitentiary. Contents made good by contractor for service in question.	8
118	Miss S. J. Watts.....	do	do	16..	4 00	J. Watts.....	Inverness, Que.....	do		

I. REGISTERED LETTERS.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recaptulation.
					Name.	Place.			
			1889.	\$ cts.					
119	Patrick Mulligan.	Kinkora, P.E.I.	Mar. 22.	30 00	Ritchie Bros.	Charlottetown, P.E.I.	Only \$20 stated to have been received.	No evidence to account for the alleged discrepancy.	7
120	Jos. Mailloux.	St. Hyacinthe.	do 23.	4 00	Fabre & Gravel.	Montreal.	Stated to have been received without contents.	Abstraction believed to have been committed by a dishonest assistant at the St. Hyacinthe Post Office. Loss made good by Postmaster of that office. See Case No. 111, class 1.	5
121	J. L. Duggan.	Chatham, Ont.	do 30.	20 00	Mrs. J. L. Duggan.	Montreal.	Only \$10 stated to have been received.	No evidence to account for the alleged discrepancy.	7
122		Ottawa.	do 28.	10 00	J. B. Labelle.	Pembroke.	Stated not to have been received by the person addressed.	Pembroke Post Office entered by burglars on night of 20th April, 1889 and this letter stolen.	9
123	Mrs. J. Robertson.	McCormick.	do 18.	5 00	Mrs. Virg. Hamel.	Hull.	Stated to have been received without contents.	No evidence to account for the alleged discrepancy.	7
124	John Dalton.	Victoria Harbor	April 12.	15 00	William Rennie.	Toronto.	Stated to have been received without contents.	No evidence to account for the alleged discrepancy.	7
125	F. Pilasky.	Eganville.	do 15.	232 00	Auguste Frederick.	Pembroke.			
126	F. E. Savarin.	Farneton.	do 16.	10 00	Miss J. McCarthy.	do			
127	Springfield, Mass	Bissett's Creek.	do 16.	10 00	Jos. Berthiaume.	do			
128	Colin McCrae.	do	do 17.	2 00	Francis Scott.	do			
129	Mrs. Cowdry.	Deux Rivières.	do 17.	1 00	R. C. Millar.	do			
130	Wm. Jessup.	Rockingham.	do 17.	15 00	Chas. Merrick.	do			
131	Francis Smith.	Beachburg.	do 17.	1 00	R. C. Millar.	do			
132	Alfred Morrow.	Dacre.	do 17.	1 00	Deacon, Delahay & Deacon.	do			
133	A. Shuldice.	Bells Corners.	do 18.	27 00	W. F. Fenton.	do			
134	McDougall & Cuzner.	Mattawa.	do 18.	12 00	Thos. O. Dacre.	do			
135	W. Larochelle.	Mackey Station.	do 18.	10 00	W. Larochelle.	do			
136	James Dunlop.	do	do 18.	20 00	R. C. Millar.	do			
137	Anna Jennings.	Sheenboro'.	do 18.	1 00	Miss B. Jennings.	do			
138	James Costello.	Brudenell.	do 18.	100 00	W. M. Moffat.	do	Stated not to have been received by persons addressed.	Pembroke Post Office entered by burglars on morning of 20th April, 1889, and these letters stolen.	9

139	Richd. Humphries.	Haley's Station.	do	18.	1 00	"Observer"	do	do	3
140	Levi Beach.	Douglas	do	18.	10 00	Godfrey Schmid.	do	Evidence in this case pointed to the conclusion that this letter was not despatched from the Orwell Post Office. Contents made good by Postmaster at Orwell.	3
141	P. Gibbons.	Osecola.	do	18.	40 00	Alex. Millar.	do	Stated to have been despatched in mail from La Baie to Sorel of 18th April, 1889, but to have failed to reach latter office. Though no evidence could be obtained at the time as to how the letter disappeared, a dishonest Postmaster on the route was subsequently arrested, tried and sentenced for stealing a post letter. (See case No. 90.)	4
142	A. & W. Reid.	Westmeath.	do	18.	3 25	J. P. Bostwick.	do	do	4
143	O. Akesson.	do	do	18.	34 16	A. Foster.	do	do	4
144	do	Douglas	do	18.	10 00	Robert Brown.	Snake River.	do	4
145	do	Ottawa.	do	18.	2 00	J. Cox.	Allumette Island	do	4
146	do	Pembroke.	do	18.	70 50	Michael Doyle.	Doyle	do	4
147	A. J. Brown.	Arnprior.	do	19.	18 00	B. J. Dowsley.	Pembroke	do	4
148	John Delahay.	Cobden.	do	19.	1 38	A. Irving.	do	do	4
149	do	Buckingham.	do	19.	8 00	Thos. Delahay	do	do	4
150	M. Martin.	Orwell, P.E.I.	do	16.	2 00	"Family Herald"	Montreal.	do	4
151	O. Lemaire.	St. Zephirin.	do	17.	20 00	C. Labelle.	Sorel.	do	4
152	J. B. Lafrance, jr.	Chapleau.	do	18.	10 00	J. B. Lafrance, sr.	Ste. Cecile du Bic	do	2
153	P. Silverstone.	Apple Hill.	do	20.	37 00	Mrs. Friedman.	Montreal.	do	3
154	A. De Villers.	Bellefleur, N.B.	do	22.	10 00	J. A. Jarvis.	River du Loup.	do	2
155	S. Kettle.	Gooderham.	do	27.	12 00	Frost & Wood.	Smith's Falls.	Only \$10 stated to have been received.	7
156	A. McIntyre.	Lucknow.	do	27.	1 24	Household Ladies Co.	Toronto	do	7
157	John Murchisson.	do	do	27.	2 gold watch cases value \$50.	P. W. Ellis.	do	Stated not to have been received by persons address ed.	7
158	John Wallace.	do	do	27.	Gold cuff buttons value \$4	R. Leask.	Parkdale.	Destroyed on the occasion of the railway accident, which occurred on the Grand Trunk Railway on 28th April, 1888, at the "Junction Cut" near Hamilton,	7

I. REGISTERED LETTERS.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
			1889.	\$ cts.					
159	W. Rosebrugh.....	Bothwell .....	April 27	1 25	R. Meek.....	Kingston.....			
160	C. Everingham.....	do .....	do 27	1 10	Stevens Bros.....	Northford, Con..			
161	C. Moore.....	Chatham.....	do 27	5 00	W. T. Bain & Co.....	Toronto.....			
162	John Murray.....	Woodslee.....	do 27	72 50	H. D. Cameron.....	Hamilton.....			
163	F. Day.....	Essex Centre.....	do 27	10 00	Mrs. F. Day.....	do .....			
164	F. Day.....	do .....	do 27	5 00	Mrs. C. Day.....	do .....			
165	C. W. Colver.....	Simcoe.....	do 27	12 00	W. Couse.....	do .....			
166	C. Elliott.....	London.....	do 27	200 00	Wood & Legatt.....	do .....			
167	S. Moore.....	Thorndale.....	do 27	10 00	J. C. Moore.....	do .....			
168	W. H. Moss.....	Brussels.....	do 27	20 00	H. D. Cameren.....	do .....			
169	Geo. A. King.....	Wyoming.....	do 27	1 00	J. S. Bruce & Co.....	do .....			
170	E. R. Barclay.....	Poplar Hill.....	do 27	4 00	P. W. Ellis.....	Toronto.....			
171	A. J. & J. Steven son.....	London.....	do 27	2 rings, (one diamond & 1 Ruby).....	do .....	do .....			
172	E. Martyn.....	London East.....	do 27	2 00	C. H. Mortimer.....	do .....			
173	W. J. Smith.....	Strathroy.....	do 27	£5 note	Traders Bank.....	do .....			
174	J. Graham.....	Fernhill.....	do 27	1 00	G. Graham.....	Markham.....			
175	Dickinson, Nicholson & Co.....	London.....	do 27	2 00	J. C. Nicholson.....	Montreal.....			
176	A. Lynch.....	Chatham.....	do 27	1 00	Barnard Home.....	Peterboro.....			
177	J. Hobbs.....	Lekeview.....	do 27	0 75	"Herald & Star".....	Montreal.....			
178	D. Spencer.....	Zurich.....	do 27	57 52	W. H. Gillard & Co.....	Hamilton.....			
179	G. Baird, jr.....	Brucefield.....	do 27	11 00	J. J. Dally & Co.....	do .....			
180	Manning & Scott.....	Clinton.....	do 27	4 34	A. McKellar.....	do .....			
181	M. McGregor.....	Blyth.....	do 27	10 17	D. Dexter.....	do .....			
182	Jas. Hicks.....	Talbotville.....	do 27	32 00	Western Bank.....	Oshawa.....			
183	M. D. Carder.....	St. Thomas.....	do 27	17 00	J. Taylor & Co.....	Toronto.....			
184	C. Eagle.....	Cranbrook.....	do 27	200 00	Henderson & Small.....	do .....			
185	C. Danley.....	Gorrie.....	do 27	1 00	S. S. Kimball.....	Montreal.....			
186	J. M. Taggart.....	Moncreiff.....	do 27	60 00	Gibson & Clute.....	Napanee.....			
187	do .....	do .....	do 27	15 00	W. H. Harris.....	Toronto.....			
188	M. K. Detwiller.....	Wallace.....	do 27	5 34	J. D. Wells.....	do .....	Stated not to have been received by persons addressed.	Destroyed on the occasion of the railway accident, which occurred on the Grand Trunk Railway on 28th April, 1889, at the "Junction Cut" near Hamilton.	10

189	A. Johnson.....	Zurich.....	do	27	1 00	Canon Mockridge.....	Hamilton.....			
190	Mrs. Jas. Armstrong.....	St. Mary.....	do	27	1 45	Wm. Rennie.....	Toronto.....			
191	Jos. Lawson.....	Burnham, Mich.....	do	27	5 00	Donaldson & Carmichael.....	Hillaburg.....			
192	Mrs. McGranger.....	Dresden.....	do	27	1 00	Shepherd Bros.....	Toronto.....			
193	do.....	do.....	do	27	1 00	News Printing Co.....	do.....			
194	J. D. Moir.....	do.....	do	27	8 29	Wm. Briggs.....	do.....			
195	do.....	do.....	do	27	10 00	Smith & McGlashan.....	do.....			
196	Rev. G. W. Tompson.....	Centralia.....	do	27	4 92	Canada Life Ass'n.....	do.....			
197	Daniel French.....	do.....	do	27	9 00	Steele Bros.....	do.....			
198	Wm. Miners.....	Elmhurst.....	do	27	25 00	T. Miners.....	Virden.....			
199	Thos. Andrews.....	do.....	do	27	15 00	W. H. Harris.....	Toronto.....			
200	M. McInnis.....	Clinton.....	do	27	30 00	J. D. Wells.....	do.....			
201	W. Granger.....	Blyth.....	do	27	1 25	H. Wade.....	do.....			
202	G. H. King.....	Sudbury.....	May 3		4 00	Meir & McKenzie.....	Sault Ste. Marie.....	do		Stated to have been despatched in mail from Sudbury to Sault Ste. Marie, of 4th May, 1889, but to have failed to reach latter office.
203	Eddy Manfg Co.....	Hull.....	May 6		500 00	T. McGuire.....	Maynooth.....			Contained in a registered package made up at Hull for Ottawa, on 6th May, 1889, of which all subsequent trace was lost.
204	J. A. B. Hannum.....	do.....	do		2 00	"Commercial Advertiser".....	do.....			No evidence to account for the alleged discrepancy.
205	Miss Brault.....	do.....	do		1 00	J. O. Beaupré.....	Detroit, Mich.....			do
206	Joseph Chretien.....	do.....	do		8 00	Dlle. V. Chretien.....	Malone, N.Y.....			do
207	Henri Guillote.....	do.....	do		7 00	Dme. H. Guillote.....	Sorel.....			do
208	The Postmaster.....	Sunderland.....	May 8		25 45	Montreal Bank.....	Ottawa.....	Only \$25.10 stated to have been received.		do
209	A. McCormack.....	Pembroke.....	do 13		80 00	Thomas Story.....	do.....	Only \$40 stated to have been received.		do
210	The Postmaster.....	Gravenhurst.....	do 15		34 86	Bank of Montreal.....	do.....	Only \$30 stated to have been received.		do
211	P. Thomson.....	Uptergrove.....	do 24		18 00	P. J. Thomson.....	Guelph.....	Only \$8 stated to have been received.		do
212	.....	Weldford, N. B.....	May 30		19 00	John Fawcett.....	Upper Sackville, N.B.....	Stated not to have been received by the persons addressed.		
213	.....	St. Hyacinthe, Q.....	do 30		7 00	Miss F. Smallwood.....	Sackville, N. B.....			The bag in which these letters were despatched to Sackville, N. B., by the Moncton and Campbellton Railway mail clerks on 30th May, 1889, was ripped open at the Sackville Railway Station, and the letters stolen by two boys, who had been improperly permitted by the contractor for the Sackville and Railway Station service to receive the bag from the postal car and take charge of it until he called for it. These lads were arrested, but admitted to bail, and fled the country. Contents made good by contractor for the service in question.



I. Registered Letters.—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Reappitulation.
					Name.	Place.			
			1889.	\$ cts.					
214	G. Knight .....	Toronto .....	do 14..	27 00	Mrs. G. Knight...	St. Hyacinthe ..	Only \$22 stated to have been received.	No evidence to account for the alleged discrepancy.	7
215	H. F. Ames .....	Waubashene .....	June 5..	30 00	Wyld, Grasset & Darling.	Toronto .....			
216	Moulton & Mackay .....	Lyndhurst .....	do 6..	100 00	T. Gilmour & Co..	Brockville .....	Only \$95 stated to have been received.	No evidence to account for the alleged discrepancy.	7
217	Mrs. J. Bolton .....	Perth Road .....	do 8..	2 03	Dr. S. McBride ..	Merrillon, Wis..			
218	John Corkill .....	do .....	do 8..	2 00	Stone & Wellington	Toronto .....	Stated not to have been received by the persons addressed.	Stated to have been despatched in mail from Perth Road to Kingston of 8th June, 1889, but to have failed to reach the latter office.	2
219	Jas. W. McDonald .....	Harrigan Cove ..	do 6..	100 00	Payzant & King ..	Halifax .....			
220	Geo. Pye .....	Ecum Secum, NS ..	do 7..	35 00	M. H. Ruggles ..	do .....	do	Shubenacadie Post Office entered by burglars on the night of the 10th June, 1889, and these letters stolen.	9
221	Henry Pye .....	do .....	do 7..	15 00	Miller Bros. ....	Middleton .....			
222	Jas. Phillips .....	East Orrington, Maine.	do 7..	15 00	Mrs. Robt. Phillips	Shubenacadie ..	do	do	
223	Mrs. T. McLellan .....	Salmon River ..	do 8..	6 00	J. E. Roy & Co. ....	Halifax .....			
224	Rev. R. Smith .....	do .....	do 8..	17 12	Clayton & Sons ..	do .....	do	do	
225	The Postmaster .....	Little River .....	do 8..	6 00	The Postmaster ..	do .....			
226	Samuel Burns .....	do .....	do 8..	90 00	James Fisher .....	Lower Stewiacke ..	do	do	
227	Wm. Logan .....	Middle Musquodoboit.	do 8..	1 00	Charles Stark .....	Toronto .....			
228	M. H. Layton .....	do .....	do 10..	12 74	Baldwin & Co. ....	Halifax .....	do	do	
229	do .....	do .....	do 10..	10 34	Moir, Son & Co. ....	do .....			
230	Eaton, Parsons & Beckwith.	Halifax .....	do 10..	92 17	J. Stewart .....	Upper Musquodoboit.	do	do	
231	Mrs. Raymond .....	St. John, N.B. ....	do 10..	Gold watch and chain.	Miss F. E. Cochran	Matland .....			
232	Mrs. Dav. Emmett .....	Lower Stewiacke ..	do 10..	2 silver brooches and 1 ear-drop.	Mrs. Jno. Wright.	Upper Nine Mile River.	do	do	
233	Halifax Banking Co.	Truro .....	do 10..	98 21	Daniel Reid .....	Middle Musquodoboit.			

34	Mary Ferguson....	Amherstburg...	do	18..	5 00	John Ellis.....	Windsor, Ont....	do	3
235	C. G. Alkerton....	Woodstock, N.B.	June 19..	do	8 00	Mrs. C. T. Alkerton	Bloomfield N.B.	Stated not to have been received by the person addressed.	10
236	H. J. Beemer.....	Quebec.....	do	19..	15 35	Alexandre Vallée.	Chambord.....	Only \$10.35 stated to have been received.	5
237	John Goudreau....	Chambord.....	do	23..	15 00	Mme. J. Goudreau.	St. Jérôme.....	Only \$10 stated to have been received.	9
238	J. Eaton & Co....	Toronto.....	do	27..	1 43	Mrs. W. Stephenson.	Quesnelle Forks, B.C.	Stated not to have been received by person addressed.	7
239	The Postmaster...	Fordwich.....	do	18..	104 03	Bank of Montreal.	Ottawa.....	Only \$94.03 stated to have been received.	2
240	W. K. Kains.....	Treadwell.....	do	18..	59 11	Messrs. R. Miller, Son & Co.	Montreal.....	Stated not to have been received by the persons addressed.	3
241	Archie Moore.....	Plainfield.....	do	12..	1 73	Wheeler & Bain...	Toronto.....	do	3
242	Reuben Steele....	Pickford, Mich.	do	20..	25 00	Edward Steele....	Grenville, Que..	do	3
243	Joseph St. Jarre..	Grande Baie....	do	30..	3 25	M. E. Methot....	Cap St. Ignace..	do	3

This letter was mis-delivered at the Windsor Post Office. The contents were recovered, however, from the party to whom the letter was mis-delivered.

Bloomfield Post Office destroyed by fire on the 19th June, 1889, and this letter burnt.

These letters were ascertained to have been tampered with at the Chambord Post Office. Losses made good by the Postmaster of that office.

Ashcroft Station Post Office entered by burglars on the night of the 6th July, 1889, and this letter stolen.

No evidence to account for the alleged discrepancy.

Stated to have been despatched from Treadwell, in mail of 18th June, 1889, for C. P. R. Clerks passing east, between Ottawa and St. Scholastique, but to have failed to reach the latter clerks.

This letter disappeared whilst under the charge of a Letter Carrier at Toronto, who made good contents.

This letter was duly received at the Grenville Post Office, but the Postmaster of that office being unable to show how it was disposed of made good contents.

The Postmaster of Cap St. Ignace having failed to report the non-receipt of the Letter Bill of the mail from Quebec and River du Loup Mail Clerk, with which this letter is stated to have been despatched to the Cap St. Ignace Post Office, made good contents.

## II.

Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money sent through the Post Office in Canada.

## UNREGISTERED LETTERS.

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
			1888.	\$ cts.					
1	Mme. E. Bertrand.	Montreal.	July 1.	3 00	Mme. Veuve Bertrand.	Quebec.	Stated not to have been received by the persons addressed.	No trace, owing to want of registration.	1
2	H. V. Barbour.	St. John, N. B.	do 1.	11 12	Mutual Relief Society.	Yarmouth, N. S.	do	do	1
3	E. Frost.	Pembroke.	do 4.	10 00	Mrs. E. Frost.	Whitby.	do	do	1
4	John S. Rolph.	North Augusta.	do 4.	50 00	Macnee & Minnes.	Kingston.	do	do	1
5	J. J. Downing.	Riverside.	do 5.	3 10	J. J. Christie & Co.	St. John, N. B.	do	do	1
6	P. Bernard.	Deschambault.	do 6.	12 43	Renaud et Cie.	Quebec.	do	do	1
7	Wm. Monypenny.	Toronto.	do 4.	3 50	Mrs. Herdman.	Wingham.	do	do	1
8	D. Hudson.	Richibucto, N. B.	do 7.	12 00	Dr. McCully.	Toronto.	do	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	4
9	Miss C. M. Stewart.	Orillia.	do 7.	2 63	F. G. Howe.	do	do	do	1
10	A. C. Campbell.	Cannington.	do 12.	5 00	R. Thompson & Co.	do	do	do	1
11	Mary A. Brunt.	St. Catharines.	do 12.	2 00	Mrs. E. Brunt.	do	do	No trace, owing to want of registration.	1
12	John Skitch.	Gravenhurst.	do 14.	10 00	Mr. Barron.	Lindsay.	do	do	1
13	William Payne.	Credit Forks.	do 16.	6 00	Mrs. Payne.	Toronto.	do	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	4
14	Sanderson & Pillow.	Toronto.	do 16.	2 68	Consumers Gas Co.	do	do	do	1
15	Miss G. Rennie.	Niagara.	do 16.	5 00	J. L. Davidson.	do	do	do	1
16	R. Dunlop.	Toronto.	do 18.	2 00	Jas. McCance.	do	do	No trace, owing to want of registration.	1
17	Kate Aylward.	Tadousac.	do 19.	2 00	Thos. Aylward.	Quebec.	do	do	1
18	Desiré Rousseau.	La Beauce.	do 20.	25 00	Joseph Grondin.	St. Fr. Beauce.	do	This letter was mis-delivered at the St. François Beauce Post Office to a Mr. Joseph N. Grondin, who was arrested and committed for trial for misdeemeanor, and released on bail, but fled the country, forfeiting his bail. Contents recovered.	3



II. UNREGISTERED LETTERS—Report of all cases occurring within the year ended 30th June, 1889, of abstraction from or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Results of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
			1888.	\$ cts.					
43	Miss L. Graham	Toronto	Aug. 19	1 00	Miss F. Zougg	Grimsby Park	Stated not to have been received by person addressed.	No trace owing to want of registration.	1
44	Margaret Bouron	Lakefield	do 19	3 00	Mrs. A. Bouron	Minden	do	do	4
45	J. T. Belfry	Shelburne	do 19	3 00	Miss M. Belfry	Toronto	do	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	
46	Sarah Phillips	Brampton Station	do 21	3 00	Mrs. T. H. Grey	do	do	No trace, owing to want of registration.	
47	Thos. Woodbridge	Toronto	do 20	5 00	Mrs. W. T. Wood	Point Kaye	do	No trace, owing to want of registration.	
48	Thomas Evans	do	do 20	4 00	bridge.	Trenton	do	do	
49	M. A. Nightingale	Craigvale	do 20	2 00	Mrs. Thos. Evans	Hoodstown	do	do	
50	N. Wayley	Halifax	do 25	0 15	R. S. Mann	Kingston	do	do	
51	R. A. Dickson	Toronto	do 26	10 00	N. Stafford	Fenelon Falls	do	do	
52	John Worthington	Brantford	do 28	20 00	Mrs. R. A. Dickson	Toronto	do	do	
53	Mrs. Horner	Stratford	do 29	2 00	F. D. Worthington	Bertie, Ont.	do	do	
54	Mrs. Chas. Stevens	Napanee	do 29	2 00	Miss C. Horner	Tweed	do	do	
55	Jno. King, Sen.	Churchill	do 29	6 00	Miss M. Molyneux	Hoodstown	do	do	
56	F. W. Brennan	Hamilton	do 30	1 00	R. S. Mann	Toronto	do	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	
57	A. F. H. Himsworth	Toronto	do 31	6 00	Mrs. D. Morrison	Hull, Que.	do	No trace, owing to want of registration.	1
58	S. T. Beal	Stratford	do	1 00	Miss Himsworth	Toronto	do	do	4
59	George Turner	Rosseau	Sept. 1	5 00	Lumbers & Son	Aspden	do	do	
60	Manufacturers Life Assurance Co.	Toronto	do 1	10 00	Mrs. Geo. Turner	Toronto	do	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	
61	J. D. Smith	Pembroke	do 2	16 00	John Urquhart	Brookville	do	No trace owing to want of registration.	1
62	W. A. Kester	Cobourg Ry. Station	do 2	10 00	Mrs. J. D. Smith	Brooklin, Ont.	do	do	

63	John Guttridge...	Forest...	do	4..	13 00	David Bell.....	Toronto .....	do	..	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	4
64	W. J. S. Brown...	Carberry .....	do	5..	20 00	Mrs W J S Brown	Winnipeg.....	do	..	No trace owing to want of registration.	1
65	W. J. Passmore...	Conestogo .....	do	6..	71	Montreal Optical & Jewellery Co..	Montreal. ....	do	do	do	..
66	Miss Kate Maybee	Gananoque.....	do	7..	5 00	Mrs. A. Woodcock.	Ottawa.....	do	do	do	..
67	Joseph Smith.....	Montreal.....	do	8..	2 00	Post Office Box 54.	Montreal.....	do	do	do	..
68	W. Goslin.....	Renfrew.....	do	9..	1 00	Miss M. A. Gosling	Toronto .....	do	do	do	..
69	Wm. Beavis.....	Vancouver, B.C.	do	12..	30 00	Reid & Currie.....	New Westminster, B.C.	do	..	Believed to have been stolen by Letter Carrier Spence of the Toronto Post Office. See Case No. 126, Class II.	3
70	James Alison.....	Toronto .....	do	13..	8 00	Rev. Prof. Ross...	Kingston.....	do	..	This letter was posted for registration, but the registration having been omitted the Postmaster of Vancouver made good contents.	1
71	Mlle. Marie M. Pouliot.	Rivière du Loup.	do	13..	5 00	Rev. Mère Catherine du Précieux Sang.	St. Hyacinthe..	do	do	No trace owing to want of registration.	..
72	H. Throuin.....	Montreal.....	do	14..	3 00	Mrs. F. X. Throuin	do	do	do	do	..
73	George Oliver.....	Vancouver, B.C.	do	15..	10 00	William Oliver.....	Florence, Ont..	do	do	do	..
74	P. H. Ginton.....	St. Catharines.	do	15..	10 00	L. P. Sylvain.....	Ottawa.....	do	do	do	..
75	Mrs. L. Coad.....	Toronto .....	do	16..	1 35	Mrs. Hutchinson..	London, Ont....	do	do	do	..
76	W. E. Cornell.....	Hamilton Ry. Station.	do	16..	2 00	Mrs. A. Crumpton	Toronto .....	do	do	do	..
77	J. J. Hanna.....	Uxbridge.....	do	17..	9 50	Messrs Taylor Bros	do	do	do	do	..
78	H. R. Holt.....	Toronto .....	do	17..	5 00	H. S. Mara.....	do	do	do	do	..
79	G. A. Dixon.....	Charlottetown, P.E.I.	do	18..	20 00	Detective N. Power	Halifax, N.S....	do	do	do	..
80	Charles Ennis.....	Montreal.....	do	18..	3 00	Post Office Box 54.	Montreal.....	do	do	do	..
81	Mrs. Villeneuve..	do	do	19..	3 00	Mrs. E. O'Meara..	Ottawa.....	do	do	do	..
82	E. C. Hancock.....	Toronto .....	do	20..	13 00	Dr. A. Geikie.....	Toronto .....	do	do	do	..
83	Alfred Butler.....	London.....	do	22..	2 00	Miss Mary Butler.	do	do	do	do	..
84	Louis Walsh.....	Port Arthur....	do	22..	10 00	Mrs. J. M. Walsh.	Brockville .....	do	do	do	..
85	G. Martin.....	Casselman.....	do	28..	9 00	"La Minerve".....	Montreal.....	do	do	do	..
86	W. Archer.....	Montreal.....	do	29..	10 00	Mrs. W. V. Archer	Quebec.....	do	do	do	..
87	Mrs. Williams.....	Riverside.....	do	29..	4 00	Water Works Dept	Toronto .....	do	do	do	..
88	Mr. McDonough...	Vancouver, B.C.	do	30..	120 00	Thos. W. Fletcher.	Victoria, B.C....	do	do	do	..
89	C. Eagle.....	Bredenburg Stn.	do	30..	23 00	Mrs. Eagle.....	Minnedosa..	do	do	do	..

II. UNREGISTERED LETTERS—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
			1888.	\$ cts.					
90	Moïse Godbout....	St. Sauveur de Québec.	Sep. 24..	10 00	Mme Moïse Godbout.	St. Roch de Québec.	Only \$5 stated to have been received.	No evidence to account for the alleged abstraction.	7
91	Mrs. M. Holmes....	Seaforth.....	Oct. 1..	1 00	Miss E. Holmes....	Toronto .....	Stated to have been received without contents.	Believed to have been tampered with by Letter Carrier Spence, of the Toronto Post Office. See Case No. 126, Class II.	4
92	J. L. Lapointe.....	Joliette.....	do 1..	45 00	Singer Mfg Co. ....	Montreal....	Stated not to have been received by the person addressed.	No trace, owing to want of registration.	1
93	W. A. Archer .....	Montreal .....	do 1..	10 00	Mrs. W. V. Archer .....	Quebec .....	do	do	..
94	Jacob Murray .....	Tadoussac .....	do 3..	15 00	Mrs. J. Murray .....	do .....	do	do	..
95	Mme. E. Giffard .....	Montreal .....	do 4..	1 25	Rev. M. Supertreure, P.S.	St. Hyacinthe..	do	do	..
96	E. M. Estey .....	Moncton .....	do 6..	10 00	E. L. Phillips .....	St. John, N.B..	do	do	..
97	W. H. Purdy .....	St. John, N.B..	do 6..	6 00	Deputy Minister of Marine.	Ottawa .....	do	do	..
98	Louise Demers .....	Lennoxville....	do 6..	5 00	Hubert Demers....	do .....	do	do	..
99	A. Balkwill .....	Vancouver, B.C.	do 6..	10 00	L. Lepage .....	New Westminster, B.C.	do	do	..
100	Miss J. McLean .....	Toronto .....	do 8..	8 00	Miss K. McLean .....	Nottawa .....	do	do	..
101	J. E. C. Delamere. ....	Minden .....	do 9..	2 00	Gen. Press Agency .....	Toronto .....	do	do	..
102	F. A. Hogle .....	Sherbrooke Stn..	do 11..	4 50	H. Hammersley .....	Montreal .....	do	do	..
103	Rev. J. C. Bell .....	Bethany .....	do 12..	1 00	Rev. W. Briggs....	Toronto .....	do	do	..
104	J. A. Kneeland .....	Agnes, Que. ....	do 13..	2 00	do .....	do .....	do	do	..
105	C. O. Brown .....	Collingwood .....	do 15..	5 40	Carwell & Co. ....	do .....	do	do	..
106	James Page .....	Mattawa .....	do 15..	1 00	Miss Annie Powell .....	do .....	do	do	..
107	J. S. Lane .....	Stanley Mills....	do 15..	2 00	Mrs. Gage .....	Seaton Village..	do	do	..
108	G. M. Cadenhead .....	Renfrew .....	do 15..	10 00	Miss Cadenhead .....	Fergus .....	do	No trace, owing to want of registration.	4
109	Théodule Bélanger .....	Montreal .....	do 15..	6 00	Mme. Veuve M. Belanger.	Lauson .....	do	do	..
110	C. E. Graham .....	Hull .....	do 16..	10 00	Geo. Graham .....	Montreal....	do	do	..
111	Rachel Aymong .....	Montreal .....	do 17..	2 00	Joseph Côte .....	Lévis .....	do	do	1

112	C. J. Pusey.....	Kinnmount Junction (Postal Car).	do	17..	3 00	Miss H. A. Pusey	Peterboro'.....	do	..	do	..	4
113	Mrs. H. V. Coffey.	Toronto.....	do	18..	5 00	John Sullivan....	Orillia.....	do	..	do	..	
114	F. E. Allum.....	St. Thomas.....	do	18..	3 00	Mrs. Allum.....	Toronto.....	do	}	Believed to have been stolen by Letter Carrier Spence, of the Toronto Post Office. See Case No. 126, Class II.	}	4
115	W. J. Hall.....	Napanee.....	do	19..	5 00	G. E. Charles.....	do.....	do				
116	J. A. Blouin.....	Lévis.....	do	22..	25 00	J. W. Reny.....	Ottawa.....	do	..	No trace, owing to want of registration.	..	1
117	H. M. Charlesworth	Owen Sound.....	do	22..	1 00	W. E. Leadbeater.	Woodstock.....	do	..	do	..	
118	B. C. Fairfield....	St. Catharines...	do	22..	2 40	Wm. Bailie.....	Kingston.....	do	..	do	..	
119	Geo. Mundy.....	Aldboro'.....	do	23..	25 00	A. Mundy.....	Beachville.....	do	..	do	..	
120	Rev. J. E. Donkin..	Acadia Mines....	do	24..	10 00	Rev. Wm. Briggs..	Toronto.....	do	..	do	..	
121	Mrs. J. D. Ritchie.	Beaverton.....	do	24..	10 00	Miss Bursby.....	do.....	do	}	Believed to have been stolen by Letter Carrier Spence, of the Toronto Post Office. See Case No. 126, Class II.	}	4
122	William Grant.....	Orillia.....	do	24..	6 36	John Irving.....	do.....	do				
123	Gilmour & Co. ....	Montreal.....	do	25..	15 00	W. B. Gilmore....	St. John, N.B..	do	..	No trace, owing to want of registration.	..	1
124	Edmund Easley....	Stratford.....	do	27..	2 00	William Easley...	Toronto.....	do	}	Believed to have been stolen by Letter Carrier Spence, of the Toronto Post Office. See Case No. 126, Class II.	}	4
125	Miss Hurrill.....	Hamilton.....	do	27..	5 00	W. B. Wood.....	do.....	do				
126	.....	New Orleans....	do	27..	3 00	Miss T. Dieterle..	do.....	do	}	These letters were acknowledged to have been stolen by Letter Carrier John Spence, attached to the Toronto Post Office. Spence, having been arraigned on a charge of illegally opening letters, pleaded guilty, and was sentenced to four years in Penitentiary.	}	3
127	.....	Chatham.....	do	27..	4 00	Jack McGuire....	do.....	do				
128	John King.....	Hickson.....	do	29..	21 50	McMurchie & Co..	Clinton.....	Stated not to have been received by the persons addressed.	..	No trace, owing to want of registration.	..	1
129	Mrs. J. Phillips....	Peterboro'.....	do	29..	20 00	Mrs. R. Andrews..	Gooderham.....	do	..	do	..	
130	John H. Eglh.....	Montreal.....	do	31..	2 00	Mrs. J. H. Eglh....	Ottawa.....	do	..	do	..	
131	E. Brosseau.....	St. Jérôme.....	do	31..	0 25	W. Street.....	Montreal.....	do	..	do	..	
132	Léon Renaud.....	Maria.....	Nov. 1..		15 00	Léon Renaud.....	St. Sauveur de Québec .....	do	..	do	..	
133	F. J. Dixon.....	Toronto.....	do	2..	1 50	Major George Guy.	Ottawa.....	do	..	do	..	
134	L. A. Sicklesteel..	Amherstburgh...	do	3..	4 00	D. J. Sicklesteel..	Parkdale.....	do	..	do	..	
135	Amelia Sherritt...	Essex Centre....	do	3..	40 00	Mrs. Wm. Sherritt	Simcoe.....	do	..	do	..	
136	W. J. Boyd.....	Winnipeg.....	do	5..	0 25	J. E. McCleneghan	Ottawa.....	do	..	do	..	



II. UNREGISTERED LETTERS—Report of all cases occurring within the Year ending 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
			1888.	\$ cts.					8
137	Kate O'Neil	Boston, U.S.	Nov. 3.	7 00	Mrs. S. McBriarty	Milford, N. B.		Milford Post Office entered by burglars on the night of 8th Nov., 1888, and these letters robbed of their contents. The Postmaster of Milford not having taken proper precautions for the security of his office, made good contents.	1
138	James Terry	Milford, N.B.	do 7.	1 00	Isaac Erb.	St. John, N. B.			
139	R. C. Adams	Montreal	do 6.	10 00	W. Campbell	Buckingham	Stated not to have been received by the person addressed.		
140	Maggie H. Roe	Pembroke	do 6.	5 00	Maggie H. Rowe	Franktown	do	do	5
141	W. Sutherland	Toronto	do 6.	10 00	Miss E. Thompson	Midway	do	do	
142	Mrs. McIntyre	Dutton	do 4.	3 00	Miss L. McIntyre	St. Thomas, Ont	Only \$2.00 stated to have been received.	This letter is believed to have been tampered with at the Dutton Post Office. Loss made good by Postmaster of Dutton.	
143	Miss J. McKinley	Toronto	do 9.	1 00	Miss K. McKinley	Fergus	Stated not to have been received by the person addressed.	No trace, owing to want of registration.	1
144	D. R. McCallum	Winnipeg	do 10.	5 00	Mrs. M. McCallum	Martintown, Ont	do	do	
145	Geo. F. Howell	Chatham, N.B.	do 10.	12 00	Mrs. Geo. Howell	Clarendon Station, N. B.	do	do	
146	Maggie M. Tugman	Montreal	do 11.	5 00	Mary A. Tugman	Fenelon Falls	do	do	
147	J. H. Delanere	Minden	do 12.	25 00	Smith, Rae & Green	Toronto	do	do	
148	Miss M. Poulin	Carillon	do 14.	0 50	W. Street	Montreal	do	do	
149	A. Kemleyside	London, Ont.	do 14.	2 00	Miss Kemleyside	Sarnia	do	do	
150	Arthur Gordon	Sudbury	do 15.	10 00	Mrs. A. Gordon	Newry	do	do	
151	C. Hutchison	Montreal	do 16.	20 00	Mrs. C. Hutchison	Orleans	do	do	
152	Mrs. Brewer	Agassiz, B.C.	do 16.	5 00	Mrs. Wm. Prout	Vancouver, B.C.	do	do	
153	James Drewe	Toronto	do 19.	10 00	J. Gardiner	Dundalk	do	do	
154	J. W. Lawson	Vancouver, B.C.	do 19.	5 00	Miss M. Lawson	Toronto	do	do	
155	D. P. Blakely	Toronto	do 20.	2 00	F. A. Birch	Kingston	do	do	
156	John J. Clark	Weidmann	do 20.	1 50	David Adams	London	do	do	
157	Miss Susan Armour	Fort Coulonge	do 21.	5 00	Miss A. Armour	Ottawa	do	do	

Dr. Neilson.....	Winnipeg.....	do	23..	5 00	Miss E. Neilson.....	Perth.....	do	..	do	..	3
G. W. R. Lee.....	Vancouver, B.C.....	do	24..	3 00	R. L. Stone.....	Victoria, B.C.....	do	..	do	..	
Bridget.....	do	do	do				do	..	do	..	
Shaughnessy.....	Oakville.....	do	26..	5 00	P. J. Shaughnessy.....	Sandwich.....	do	..	do	..	
Wm. Smith.....	Stayner.....	do	26..	7 00	Mrs. Wm. Smith.....	Stratford.....	do	..	do	..	
John Hill.....	Lindsay.....	do	27..	150 00	Neil McCorvie.....	Midland.....	do	..	do	..	
								..	Evidence in this case pointed strongly to the conclusion that this letter was either lost or stolen in the Lindsay Post Office. Contents made good by Postmaster of Lindsay.		
C. D. Miller.....	St. Andrews.....	do	29..	2 00	Mrs. C. D. Miller.....	St. Andrew's, East.....	do	..	No trace, owing to want of registration.		
J. D. Mulholland.....	Windsor.....	do	..	2 00	Mrs. J. D. Mulholland.....	Galt.....	do	..	do	..	
Thos. W. Hart.....	Bethany.....	do	28..	3 00	Mrs. Thomas Hart.....	Meaford.....	do	..	do	..	1
do	do	do	Dec. 5..	10 00	do	do	do	..	do	..	
F. W. Brown.....	Sault Ste. Marie.....	do	3..	5 00	Joseph Lowrie.....	Sarnia.....	do	..	do	..	
Mrs. W. M. Christie.....	Ottawa.....	do	3..	15 00	Mrs. A. Crozier.....	Beachburg.....	do	..	do	..	
Mrs. F. Dillon.....	Halifax, N.S.....	do	3..	3 25	Edward Ryan.....	Montreal.....	do	..	do	..	
Mrs. Lewis.....	London.....	do	4..	2 00	Mrs. H. Hignan.....	Stratford.....	do	..	do	..	
Mrs. McIntyre.....	Dutton.....	do	4..	3 00	Miss Lottie McIn- tyre.....	St. Thomas, Ont.....	do	..	do	..	5
							Only \$2 stated to have been received.	..	Believed to have been tampered with at the Dutton Post Office. Loss made good by Postmaster of Dutton.		
J. Gilmour.....	Powassan.....	do	6..	6 00	Herman Coles.....	Minesing.....	do	..	No trace owing to want of registration.		
							Stated not to have been received by the person addressed.	..	do	..	
Geo. Mayhew.....	Montreal.....	do	7..	6 00	J. Carter.....	Toronto.....	do	..	do	..	
Louis Perreault.....	Riviere du Loup.....	do	7..	1 00	Charles Pouliot.....	St. Roch de Quebec.....	do	..	do	..	
							do	..	do	..	
Mrs. Dale.....	Brockville.....	do	10..	2 00	Miss A. Robson.....	Ottawa.....	do	..	do	..	
W. H. Foy.....	Montreal.....	do	11..	4 00	Chas. A. Jenkins.....	Toronto.....	do	..	do	..	
George Little.....	St. John, N.B.....	do	11..	4 00	J. Little.....	Juvenile Settlement, N.B.....	do	..	do	..	
							do	..	do	..	
W. F. Murphy.....	Trenton.....	do	13..	2 00	Miss A. Réaume.....	Stony Point, Ont.....	do	..	do	..	
W. Nicholson.....	Essex Centre.....	do	14..	1 50	D. Adams.....	London.....	do	..	do	..	
Geo. Harwood.....	Kingston.....	do	14..	5 00	Mrs. Robt. Horning.....	Woodstock, Ont.....	do	..	do	..	
Thos. Lockhart.....	Walmer.....	do	17..	25 00	John Lockhart.....	Toronto.....	do	..	do	..	
Jas. C. McBain.....	Ottawa Railway Station.....	do	17..	2 72	Captain Oran.....	Stayner.....	do	..	do	..	
							do	..	do	..	
A. T. Berthiaume.....	Battleford.....	do	18..	20 00	Miss J. Berthiaume.....	Hull.....	do	..	do	..	
do	do	do	18..	1 00	Mrs. A. T. Berthiaume.....	do	do	..	do	..	
							do	..	do	..	
Gertrude Watson.....	Adolphustown.....	do	21..	1 00	Mrs. W. F. Duffet.....	Ottawa.....	do	..	do	..	
Adam Morrison.....	Toronto.....	do	23..	10 00	John Morrison.....	Montreal.....	do	..	do	..	
Patrick Sheehan.....	do	do	24..	3 00	Mother Ignatia.....	London.....	do	..	do	..	
A. C. Macanley.....	do	do	24..	10 00	Robert Macanley.....	Toronto.....	do	..	do	..	
T. W. Edwards.....	Victoria, B.C.....	do	28..	10 00	Mrs. Thos Edwards.....	Ottawa.....	do	..	do	..	
A. W. Chapman.....	Dorchester, N.B.....	do	28..	15 28	C. J. Butcher.....	Moncton, N.B.....	do	..	do	..	

II.—UNREGISTERED LETTERS—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
191	Samuel Rogers Oil Co.	Ottawa.....	1888. Dec. 29..	\$ cts. 2 70	R. M. Wanzer & Co.	Hamilton.....	Stated not to have been received by the person addressed	No trace owing to want of registration.	1
192	Emily Fleet.....	Oakville.....	do 31..	10 00	Miss A. Sheldrick.	Kingston.....	do	do	1
193	G. W. Lendrum.....	Gananoque.....	do 31..	8 00	W. J. Lendrum.....	Montreal.....	do	do	1
194	Jno. Williams.....	Belleville.....	do 31..	1 75	A. P. Stewart.....	Deloraine.....	do	do	1
195	Miss S. Norris.....	Montreal.....	do 31..	5 00	Mrs. S. Norris.....	Kingston.....	do	do	1
196	Esdra Grondin.....	Chicago, Ill. ....	do 31..	20 00	Joseph Grondin....	St. François Beauce.....	do	This letter was mis-delivered at the St. François Beauce Post Office, to one Joseph N. Grondin, who was arrested and committed for trial for misdemeanor and released on bail, but who fled the country, forfeiting his bail. Contents recovered.	3
197	John Flanagan.....	Montreal.....	1889. Jan 2....	3 00	Mrs. John Flanagan.	Perth.....	Stated not to have been received by the person addressed.	No trace, owing to want of registration.	1
198	W. H. Ewer.....	Minnedosa, Man.	do 3....	0 30	John Dougall & Son	Montreal.....	do	do	1
199	Samuel Risser.....	Lunenburg, N.S.	do 5....	1 00	"Herald & Star"	do	do	do	1
200	W. J. McCormack.....	Toronto.....	do 6....	7 25	Mrs. W. Fenwick.	Galt.....	do	do	4
201	D. Lohr.....	Philipsburg, West.	do 6....	5 13	J. D. King, & Co.	Toronto.....	do	Believed to have been stolen by Letter Carrier Atkinson, of the Toronto Post Office. See case No. 205, class II.	4
202	H. Kavanagh.....	Montreal.....	do 8....	5 00	Father Gads.	Montreal.....	do	No trace, owing to want of registration.	1
203	F. Roberge.....	Ottawa.....	do 8....	2 00	Ferdinand Roberge	New Liverpool..	do	do	4
204	Jas. Elliott.....	Toronto.....	do 9....	30 00	Messrs. Elliott Bros	Kingston.....	do	do	4
205	Coote & Watson.....	Oakville.....	do 10....	2 86	J. D. King, & Co.	Toronto.....	do	Believed to have been stolen by Letter Carrier Atkinson, of the Toronto Post Office. See case No. 205, class II.	4

No.	Name	Address	Age	Occupation	Remarks	Signature	Date
206	W. H. Wardrope.	Guelph.	do 11...				
207	Jno. S. Erskine.	Cumberland	do 12...				
208	M. L. Poliquin	Montreal	do 14...				
209	Magloire Neven.	Three Rivers	do 14...				
210	John Clinton	Morden R. R. way Station.	do 14...				
211	S. Crawford & Co.	Toronto	do 15...				
212	Thomas Porter.	Dutton.	do 15...				
213	Miss Morrison.	Toronto	do 16...				
214	Geo. D. Arnold.	Ailsa Craig.	do 16...				
215	John Henderson	Montreal	do 20...				
216	Miss A. G. Hollo-	Clinton, Ont.	do 20...				
217	John Cranstown.	Pembroke	do 21...				
218	Bradley & Snow	Ottawa.	do 22...				
219	J. Barton.	Lennoxville,	do 23...				
220	Miss A. C. Mc-	Copleston.	do 24...				
221	R. Bentley.	Beeton.	do 25...				
222	J. B. Picard	Lachine	do 25...				
223	Dr. Jeannotte	Montreal	do 28...				
224	Miss Granger	Kingston	do 29...				
225	Miss Polly Holmes	St. Mary's	do 29...				
226	L. B. Read.	Charlottetown	do 29...				
227	Thos. Paquin.	Hull	do 30...				
228	do	do	do 30...				
229	Miss J. H. Higgs.	On train between Hamilton and Toronto.	do 31...				
230	Rev. Mr. Simonds	St. John, N.B.	do -				
231	John Abrey.	Woodham	Feb. 1.				
232	F. Daley.	Pennfield Sta- tion, N. B.	do 1.				
233	C. P. Himsworth	Montreal	do 2.				
234	James McKenna.	South Quebec.	do 2.				
235	Enoch Huggins	Toronto	do 3.				
236	J. H. Campbell.	Brockville	do 3.				

II. UNREGISTERED LETTERS—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
237	J. D. Johnstone...	Peterboro...	1889. Feb. 4.	\$ cts. 4 00	Mrs. M. P. Van Ressler.	Toronto	Stated not to have been received by the person addressed.	Believed to have been stolen by Letter Carrier Atkinson, of the Toronto Post Office. See Case No. 285, Class II.	4
238	Adam Devenny...	Buckingham...	do 4.	5 00	L. L. Devenny...	Ottawa...	do	No trace owing to want of registration.	1
239	R. MacDonald...	Montreal...	do 5.	10 00	Mrs. Macdonald...	Kingston	do	do	
240	E. Hoople...	Winnipeg...	do 7.	1 03	J. L. Willis...	Toronto	do	do	
241	Thos. Dick...	Henry, Ont...	do 7.	3 00	Mrs. Thos. Dick...	Ottawa	do	do	
242	Wm. Watmough...	Springfield, Ont.	do 8.	30 00	Jesse Hoove...	Aylmer, Ont.	do	do	
243	John Burrell...	Montreal...	do 9.	8 00	Mrs. W. Burrell...	Bothwell	do	do	
244	Rev. Mr. Howe...	Brussels...	do 10.	8 45	J. F. Bryce...	Toronto	do	do	
245	Geo. Wilkes...	Vancouver, B.C.	do 10.	10 00	Miss Jane Fearn...	Winnipeg	do	do	
246	E. Maguire...	Iberville...	do 11.	1 00	"Star"	Montreal	do	do	
247	N. S. Steacy...	Gracefield...	do 11.	1 50	Mrs. G. W. Steacy...	Ottawa	do	do	
248	Norbert Barbier...	Montreal...	do 13.	8 00	Mme. N. Barbier...	Ste. Flore	do	do	
249	G. Symington...	Petitediac...	do 16.	15 00	Mrs. Symington...	Montreal	do	do	
250	Miss Newton...	Petitediac...	do 16.	2 00	Mrs. R. Argue...	Sarnia	do	do	
251	W. F. McKenzie...	New Glasgow, N. S.	do 18.	2 00	J. T. Bulmer...	Halifax, N. S.	do	do	
252	P. Jackson...	South Indian...	do 18.	5 00	Mrs. P. Jackson...	Granby	do	do	8
253	W. G. Wilson...	Iroquois...	do 20.	3 00	Mrs. W. G. Wilson...	Ottawa	do	do	
254		Charlottetown, P. E. I.	do 22.	2 00	W. H. Robertson...	Peterboro, Ont.	do	This letter was stolen by A. R. Dillon, a young lad employed as stamp vendor in the Charlottetown Post Office. No prosecution instituted on account of the youth of the offender.	
255	Charles Codere...	St. Hyacinthe...	do 25.	2 00	Miss J. Wainwright	Montreal	do	No trace, owing to want of registration.	1
256	W. Emerson...	Pont du Sault...	do 26.	4 00	Miss Louise Demers	do	do	do	
257	J. P. Shurie...	Treton...	do 3.	5 00	J. S. Shurie...	Kingston	do	do	
258	Mrs. A. Gay...	Meaford...	do 4.	10 00	Mrs. R. A. Fraser	Toronto	do	do	
259	Mrs. M. Collins...	St. John, N. B.	do 4.	5 03	Mrs. Jng. Holland	Oromocto, N.B.	do	do	

260	A. Patterson, jr.	Sackville, N. B.	do	4..	3 00	Milton Anderson.	Woodstock, N.B.	do	..	..	do	..	3
261	Rev. A. Beamer	Petrolia	do	4..	5 00	J. J. Anderson.	London.	do	..	..	do	..	
262	Miss M. Slater.	Montreal.	do	4..	15 00	John Slater.	Ottawa.	do	..	..	do	..	
263	C. Gauthier.	La Plaine.	do	6..	0 50	"Le Monde"	Montreal.	do	..	..	do	..	
264	W. J. Hayward.	Stratford.	do	6..	9 00	Mrs. W. J. Hay-ward.	Windsor, Ont.	do	..	..	do	..	
265	..	Toronto.	do	6..	5 00	J. D. King & Co.	Toronto	do	..	..	do	..	
266	Mrs. J. Hardin.	Montreal.	do	7..	6 00	Miss Martha Har- din.	Montreal.	do	..	..	do	..	
267	J. L. Courtois.	L'Assomption.	do	13..	5 00	Cadieux & Derome	do	do	..	..	do	..	
268	Victorine Gauthier	Montreal.	do	13..	3 00	Evangeliste Gau- thier.	Vaudreuil	do	..	..	do	..	
269	London Stamp Co.	London.	do	17..	3 76	F. W. Curry.	Horton Landing, N.S.	do	..	..	do	..	
270	Arthur Gariépy.	Ste. Martine.	do	19..	5 00	Mme. A. Gariépy.	Montreal	do	..	..	do	..	
271	N. Sasseville.	Terrebonne.	do	23..	5 00	N. Sasseville.	do	do	..	..	do	..	
272	R. Dalglish.	Montreal.	do	25..	2 00	H. N. Bate & Sons	Ottawa.	do	..	..	do	..	
273	Mrs. A. J. Sinclair	Paris.	do	27..	10 00	Mrs. L. W. Cornell	Toronto	do	..	..	do	..	
274	Miss Picken.	Brockville.	do	28..	1 25	John Dougall & Son	Montreal.	do	..	..	do	..	
275	G. W. Faulkner.	Stirling.	do	30..	14 75	Ontario Bank.	Kingston.	do	..	..	do	..	
276	Dr. Coulombe.	Montreal	Apr.	1..	4 00	Mme. Coulombe.	Grande Ligne.	do	..	..	do	..	
277	L. Beaubien.	St. Hyacinthe.	do	2..	0 50	Beauchemin et fils.	Montreal	do	..	..	do	..	
278	L. Chalifour.	do	do	3..	0 50	do	do	do	..	..	do	..	
279	Mrs. de la Motte.	New Richmond.	do	3..	2 00	Wm. Drysdale & Co.	do	do	..	..	do	..	
280	Mrs. Coote.	Riceville.	do	4..	5 00	Mrs. C. A. W. Coote.	do	do	..	..	do	..	
281	Miss M. Dumble.	Cobourg.	do	5..	3 39	W. Foster.	do	do	..	..	do	..	
282	Mrs. Baylis.	Listowel.	do	5..	4 00	H. A. Baylis.	Belleville	do	..	..	do	..	
283	Henry Simmons.	St. John, N. B.	do	8..	3 00	David Hart.	Montreal.	do	..	..	do	..	
284	James Elsey.	Mount Brydges.	do	8..	9 24	Canada Patent Brush Co.	Windsor.	do	..	..	do	..	
285	..	Winnipeg.	do	8..	3 50	C. G. C. Simpson.	Montreal.	do	..	..	do	..	
286	J. R. Williamson.	Stratford.	do	9..	3 00	Gillespie, Ansley & Co.	Toronto	do	..	..	do	..	
287	Patrick Hart.	Kingsville.	do	9..	20 00	R. F. Lacey & Co.	London.	do	..	..	do	..	
288	Mrs. A. Landreth.	Galt.	do	12..	10 00	J. H. Landreth.	do	do	..	..	do	..	
289	J. M. Hutchins.	Baysville.	do	13..	15 00	T. Stapley.	do	do	..	..	do	..	
290	W. G. Sheppard.	St. Thomas	do	15..	7 00	Mrs. C. McMillan.	Guelph.	do	..	..	do	..	

Stolen by Letter Carrier Henry R. Atkinson, of the Toronto Post Office, who was apprehended on a charge of stealing an ordinary letter, and sentenced to 3 years in the Penitentiary. Contents recovered.

No trace, owing to want of registra-  
tion.

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

do

II. UNREGISTERED LETTERS—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—*Continued.*

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
291	"Day's" Bookstore	Berlin	1889. April 19	\$ 1 00	J. R. Nelson & Co.	Toronto	Stated not to have been received by person addressed.	No trace, owing to want of registration.	1
292	David E. Holmer	Willowdale	do 22	7 00	Geo. W. Gibson	Drew	do	do	
293	Hooper & Co.	Toronto	do 23	23 38	Park, Davis & Co.	Walkerville	do	do	
294	Henry Roppel	Wallace	do 23	7 00	J. S. Brown & Son	Paris	do	do	
295	Mrs. Kellett	Deloraine	do 27	1 25	Mrs. Bulling	Winnipeg	do	do	
296	C. F. Lorrey	Sherbrooke	May 1	5 00	Mrs. D. McAneeny	Quebec	do	do	
297	W. J. Livingston	Clinton Railway Station	do 1	16 50	R. B. Dunbar	Blyth	do	do	
298	F. Sicotte	Chambly Basin	do	3 00	Mlle. H. Sicotte	Boucherville	do	do	
299	Edward Pole	Montreal	do 2	10 00	T. S. Vipond	Montreal	do	do	
300	C. H. Winpress	Winnipeg	do 3	4 00	E. J. Steel	Winnipeg	do	do	
301	Eva Agnew	Montreal	do 4	8 00	Mrs. E. Agnew	Kingston	do	do	
302	James Brown	do	do 4	6 00	"Gazette" Ptg Co.	Montreal	do	do	
303	J. E. Duprat	Ste. Philomène	do 6	42 00	Ernest Girardot	Sandwich	do	do	
304	James Main	Hamilton	do 7	3 57	Mrs. T. H. Bucking- ham	Stratford	do	do	
305	Ferguson, Alex- ander & Co.	Montreal	do 8	15 00	R. A. Webster	St. Johns, East.	do	do	
306	W. Jones	Stoneleigh	do 10	15 00	Wm. Jones	Toronto	do	do	
307	Thos. H. Ellis	Sault Ste. Marie	do 11	7 00	Mrs. T. H. Ellis	Collingwood	do	do	
308	Mrs. H. C. McInnes	Wingham	do 12	10 00	Mrs. J. S. Fisher	do	do	do	
309	E. P. Park	Brantford	do 12	5 00	Mrs. E. P. Park	do	do	do	
310	D. F. McWatt	Barrie	do 13	0 40	Messrs. Suckling & Sons	do	do	do	
311	John Henderson	Montreal	do 13	7 00	Mrs. Henderson	Ottawa	do	do	
312	A. Mitchell	do	do 17	3 00	Joseph Dansereau	Belleville	do	do	
313	R. Eldon	Kintore	do 17	1 70	A. J. White & Co.	Montreal	do	do	
314		La Baie	do 17	15 00	Alex. Martel	St. Pie de Guire	do	do	
							Stolen by F. E. N. Boucher, late Postmaster St. François du Lac, who was arrested, brought to trial and sentenced to seven years in penitentiary.]		4

315	J. B. Henderson...	Toronto	do	18..	5 00	Mrs. L. Henderson.	Gravenhurst....	do	..	No trace, owing to want of registration.	1
316	Joseph Leveillé...	Montreal	do	21..	5 00	Joseph Leveillé, fils	Ste. Anne des Plaines.	do	..	do	7
317	R. H. Trueman...	Brandon	do	23..	8 00	Mrs. R. H. True- man.	Winnipeg.....	do	..	do	
318	J. H. Parnell.....	Ottawa	do	29..	5 00	Miss A. Tétu....	Penticoast River.	do	..	do	
319	Alex. Smith.....	Lieury	do	30..	2 00	"Globe" Office...	Toronto	do	..	do	
320	Alphonse L'Abbé.	St. Urbain de Charlevoix.	do	28..	10 00	J. Amyot & Frère.	Quebec	do	..	do	
321	B. Scheuer.....	Toronto	June	1..	5 00	Mrs. Scheuer.....	Stratford	do	..	do	
322	Charles Blake.....	Goderich.....	do	2..	15 00	Mrs. E. Edward..	Toronto	do	..	do	
323	R. B. Linton.....	Kincardine.....	do	2..	2 00	Mrs. R. B. Linton	do	do	..	do	
324	J. W. Mann.....	West Winchester	do	3..	3 00	Mrs. J. W. Mann.	Brockville	do	..	do	
325	James A. Todd.....	Montreal	do	5..	6 00	Mrs. Robertson..	Quebec	do	..	do	
326	N. Cochrane.....	Buckingham...	do	5..	15 00	M. Cochrane.....	Kingston	do	..	do	
327	J. W. Forbes.....	St. Thomas.....	do	7..	13 25	H. Ellis.....	Toronto	do	..	No evidence to account for the received without alleged discrepancy.	
328	J. A. Sheares.....	Cornwall	do	11..	10 00	Mrs. J. A. Hill...	do	do	..	No trace, owing to want of registration.	
329	E. V. Thornycroft.	Wanstead	do	12..	1 00	"Free Press" Printing Co.	London, Ont...	do	..	do	
330	Mrs. M. Harnott.	Montreal	do	17..	4 00	Royal Silverware Co.	Windsor, Ont...	do	..	do	
331	E. M. Morrison...	Sand Beach.....	do	12..	1 00	"Free Press" Printing Co.	London, Ont...	do	..	do	
332	D. W. Anderson...	Wyoming.....	do	17..	1 00	do	do	do	..	do	
333	John McNeil.....	Lethbridge	do	17..	10 00	J. W. McNeil.....	Thorburn, N.S.	do	..	do	
334	Thomas Galey.....	Ottawa	do	19..	25 00	Mrs. A. Galey....	Montreal	do	..	do	
335	D. Cattanaah.....	Camerontown...	do	19..	4 00	Mrs. J. Cattanaah.	do	do	..	do	
336	F. McGovern.....	Montreal	do	19..	3 00	Mrs. F. McGovern	Ottawa	do	..	do	
337	T. & W. Murray.	Pembroke	do	20..	5 35	Reed, Taylor & Baynes.	Toronto	do	..	do	
338	Moise Pouliot.....	Montreal	do	21..	4 00	Mme M. Pouliot..	Quebec	do	..	do	
339	S. J. Gould.....	Uxbridge	do	21..	5 00	Miss Adèle Gould.	Brantford	do	..	do	
340	A. D. Maloney.....	do	do	22..	20 00	Miss W. Corrigan.	Ottawa	do	..	do	
341	F. Pearson.....	St. Roch de Qué- bec.	do	22..	5 13	W. Farwell.....	Sherbrooke....	do	..	do	
342	Murray & Gorman	Pembroke	do	22..	2 50	Jas. Hall & Co...	Brockville	do	..	do	
343	do	do	do	22..	2 62	Bullock & Coleman	Lyn	do	..	do	
344	Jane A. Todd.....	Montreal	do	24..	6 00	Miss Robertson..	Quebec	do	..	do	
345	E. Cockroft.....	Elora	do	24..	11 00	E. Cockroft.....	Almonte	do	..	do	
346	George Harris.....	Nilestown	do	25..	1 00	"Free Press" Printing Co.	London, Ont...	do	..	do	
347	William Brown...	Owen Sound	do	30..	10 00	Mrs. W. Brown...	Montreal	do	..	do	
348	E. & C. Gurney & Co.	Hamilton	do	17..	2 00	Jacob Drumm...	Neustadt.	do	..	do	
349	Charles Hildred...	Toronto	do	27..	10 00	Samuel Hildred...	Bervie	do	..	do	



II. UNREGISTERED LETTERS—Report of all cases occurring within the Year ended 30th June, 1889, of abstraction from, or loss of, Letters containing Money, sent through the Post Office in Canada—Continued.

No.	Name of Writer.	Where Mailed.	When Mailed.	Alleged Contents.	Address of Letter.		Evidence of Loss or Abstraction.	Result of Proceedings instituted in each case by the Department.	Class in Recapitulation.
					Name.	Place.			
350	R. G. Cotton	Lakefield	June 13, 1889.	20 00	J. D. King & Co.	Toronto	Stated not to have been received by the person addressed.	No trace, owing to want of registration.	1
351	E. & C. Gurney	Hamilton	do 17	2 00	Jacob Drumm	Neustadt.	do	do	
352	Thomas McBride	Schreiber	do 18	5 00	Robt. Pearson	Toronto	do	do	
353	Alfred Ryder	Toronto	do 20	3 00	Annie Ryder	Montreal	do	do	
354	G. L. Williams	South River	do 20	5 00	Jno. R. Williams	Toronto	do	do	
355	S. J. Gould	Uxbridge	do 21	5 00	Miss A. Gould	Brantford	do	do	
356	J. T. Hampson	Toronto	do 21	4 50	F. H. Nield	Ste. Anne de Bellevue.	do	do	

RECAPITULATION.

Classification of Cases.		Registered.	Unregistered.
1. Letters stated not to have been received by persons addressed ; but, for want of registration, no trace obtainable, and no positive evidence that loss occurred in the Post Office		21	292
2. Letters contained in mails or mail packages stated not to have reached offices for which they were intended ; cause of failure not discoverable.		39	8
3. Letters lost, embezzled or misdelivered in the Post Office, the contents of which (or a portion thereof) were recovered from the officers responsible, or otherwise made good.		2	43
4. Letters lost, embezzled or misdelivered in the Post Office, the contents of which were not recovered.		23	5
5. Letters, the contents of which (or a portion thereof) were lost or stolen, and made good by the officers responsible.		1	1
6. Letters, the contents of which (or a portion thereof) were lost or stolen in the Post Office, and not recovered.		32	4
7. Letters, the contents of which (or a portion thereof) were stated to be missing, no evidence being forthcoming to account for the alleged discrepancy			

8. Letters stolen, or supposed to have been stolen, from the Post Office or mails <i>en route</i> , the contents of which (or a portion thereof) were recovered or made good .....	12	3
9. Letters stolen from the Post Office or mails <i>en route</i> , the contents of which were not recovered .....	66	
10. Letters accidentally destroyed during course of Post .....	47	
Totals.....	243	356

W. D. LESUEUR,  
Secretary.

WILLIAM WHITE,  
Deputy Postmaster-General.

**STATEMENT of Letters received at the Dead Letter Office, Canada, during the  
showing how such Dead**

TABLE No. 1.—Showing the Number of Letters of all

Number received.	—	—	—	—
<b>DEAD LETTERS :—</b>				
Returned from Great Britain; of these were registered (266) .....		9,194		
do United States do .. (1,992) .....		98,844		
do Newfoundland do .. (4) .....		418		
do Victoria do .. (2) .....		151		
do New South Wales do .. (—) .....		141		
do Mexico do .. (—) .....		68		
do New Zealand do .. (—) .....		58		
do Queensland do .. (4) .....		56		
do Brazil do .. (—) .....		50		
do Other colonies and foreign countries ; of these were registered .....	(2)	199		
	(2,270)	109,179		
LESS—Registered, accounted for below .....		2,270		
Returned from Post Offices in Canada, classified as follows :—			106,909	
Registered Letters on hand on 30th June, 1888 .....	122			
do in hands of Postmasters on 30th June, 1888 .....	291			
do received during the year ended 30th June, 1889 (including those of foreign origin) ....	12,439	12,852		
Letters found to contain value and recorded, on hand 30th June, 1888 .....	158			
Letters found to contain value and recorded in hands of Postmasters, 30th June, 1888 .....	79			
Letters found to contain value and recorded, received during the year ended 30th June, 1889 .....	3,258	3,495		
Ordinary Dead Letters originating in Canada :—			16,347	
On hand on 30th June, 1888 .....	4,980			
Received during the year ended 30th June, 1889 .....	231,918	236,898		
Ordinary Dead Letters originating in other countries re- ceived during the year ended 30th June, 1889 .....		101,374		
Dead Letters with printed addresses of senders .....		33,509		
do with official franks .....		11,386		
Returned Dead Letters, i.e., Letters sent out from Dead Letter Office and again returned unclaimed .....		69,485		
Dead Books, Parcels, &c. :—				
On hand 30th June, 1888 .....	1,890			
Received during the year ended 30th June, 1889 .....	21,005	22,895		
Circulars, Postal Cards, &c. ....		184,993	660,540	
				783,796
Carried forward .....				783,796

Year ended 30th June, 1889, and of their contents, valuable or otherwise, Letters have been disposed of.

kinds received, with the disposition made of them.

How disposed of.	—	—	—	—
<b>DEAD LETTERS :—</b>				
Returned to Great Britain, including all foreign letters not enumerated below ; of these were registered.....	(607)	23,898		
Returned to the United States ; of these were registered.....	(475)	75,198		
Returned to Newfoundland ; of these were registered.....	(7)	659		
Returned to New South Wales ; of these were registered.....	(—)	90		
Returned to Victoria ; of these were registered....	(1)	73		
do New Zealand do .....	(3)	67		
do Mexico do .....	(1)	61		
do Japan do .....	(4)	50		
do Other colonies and foreign countries ; of these were registered.....	(12)	366		
	(1,119)			
Letters of British, colonial or foreign origin remaining on hand on 30th June, 1889 ; of these were registered.....	(26)	912	101,374	
Registered Letters returned to writers, including those of foreign origin.....	10,913			
Registered Letters in the hands of Postmasters.....	329			
do failed of delivery to writers, owing to refusal to redeem, want of address, &c., found to be of no value and destroyed.....	1,276			
Registered Letters in Dead Letter Office awaiting claim..	334	12,852		
Letters found to contain value returned to writers.....	3,074			
do do in hands of Postmasters....	135			
do do in Dead Letter Office awaiting claim.....	286	3,495	16,347	
Ordinary Dead Letters returned to writers.....	216,622			
do do remaining on hand 30th June, 1889.....	1,496			
do do with printed addresses returned to senders .....		218,118		
do do returned to Government Departments.....		33,509		
do do without signatures or postmarks, accounts, &c., destroyed .....	133,916	11,386		
Returned Dead Letters destroyed .....	69,485			
Dead Books, Parcels, &c., returned to senders.....	7,285	203,401		
do do of no value disposed of.....	4,078			
do do remaining in Dead Letter Office .....	3,305	14,668		
Circulars, Postal Cards, &c., destroyed or otherwise disposed of.....		184,993	666,075	783,796
Carrie forward.....				783,796

## STATEMENT of Letters received at the Dead Letter Office, Canada,

TABLE No. 1.—Showing the Number of Letters of all kinds

Number received.	—	—	—	—
Brought forward.....				783,796
SPECIAL LETTERS, classified as follows :—				
Registered Letters on hand on 30th June, 1888 .....	202			
do in hands of Postmasters, 30th June, 1888 .....	49			
do received for better address, postage, &c. ....	9,988	10,239		
Letters found to contain value and recorded :—				
On hand on 30th June, 1888.....	50			
In hands of Postmasters on 30th June, 1888.....	31			
Received for better address, postage, &c. ....	1,123	1,204		
Ordinary Letters on hand on 30th June, 1888.....	689		11,443	
do received for postage.....	36,096			
do do better address.....		36,785		
		18,233		
Drop Letters received for postage.....			55,018	
Letters for foreign countries on hand on 30th June, 1888.....		401	6,431	
do do received as unpaid or short-paid.....		12,242		
Returned Dead Letters received.....			12,643	
Postal Cards received for postage.....		4,751	4,797	
do do address.....		4,421		
Circulars received for postage.....		390	9,172	
do do address.....		752		
			1,142	
Books, Parcels, &c. :—				
On hand on 30th June, 1888, received in that and previous years.....		1,738		
Received for postage, better address or not claimed. (Of these 1,171 contained enclosures contrary to law).....		7,118		
			8,856	
				109,502
Carried forward.....				893,298

during the Year ended 30th June, 1889, &c.—*Continued.*

received, with the disposition made of them—*Continued.*

How disposed of.	—	—	—	—
Brought forward.....				783,796
<b>SPECIAL LETTERS :—</b>				
Registered Letters returned to writers or forwarded to address.....	10,020			
Registered Letters in the hands of Postmasters.....	70			
do      unsigned and of no value, destroyed in consequence of the inability of the Department to return or deliver.....	35			
do      in Dead Letter Office awaiting claim.....	114			
		10,239		
Letters found to contain value, returned to writers or forwarded to address.....	1,066			
Letters found to contain value, in the hands of Postmasters.....	24			
do      do      in Dead Letter Office awaiting claim.....	114			
		1,204		
			11,443	
<b>Ordinary Letters received for postage :—</b>				
Returned to writers.....	23,281			
Forwarded to address.....	10,992			
Destroyed, in consequence of the inability of the Department to return or deliver.....	2,133			
Remaining on hand on 30th June, 1889.....	379			
		36,785		
<b>Ordinary Letters received for better address :—</b>				
Returned to writers.....	15,487			
Forwarded to address.....	704			
Destroyed, in consequence of the inability of the Department to return or deliver.....	2,042			
		18,233		
			55,018	
<b>Drop Letters received for postage :—</b>				
Returned to writers.....		1,771		
Forwarded to address.....		4,212		
Destroyed, in consequence of the inability of the Department to return or deliver.....		448		
			6,431	
<b>Letters for foreign countries :—</b>				
Returned to writers.....		4,877		
Forwarded to address.....		7,345		
Destroyed, in consequence of the inability of the Department to return or deliver.....		239		
Remaining on hand on 30th June, 1889.....		182		
			12,643	
Returned Dead Letters destroyed.....			4,797	
Postal Cards received for postage, returned to writers or forwarded to address.....	1,899			
Postal Cards received for postage, destroyed in consequence of the inability of the Department to return or deliver.....	2,852			
		4,751		
Postal Cards received for better address returned to writers or forwarded to address.....	2,221			
Postal Cards received for better address, destroyed, in consequence of the inability of the Department to return or deliver.....	2,200			
		4,421		
			9,172	
Carried forward.....			99,504	783,796

STATEMENT of Letters received at the Dead Letter Office, Canada.

TABLE No. 1.—Showing the Number of Letters of all kinds

Number received.	—	—	—	—
Brought forward.....				893 298
Grand Total.....				893,298

		S U M
Letters on hand on 30th June, 1888.....	10,230	
Dead Letters received.....	776,646	
Special do .....	106,422	
		893,298

W. D. LESURE,  
Secretary.

during the Year ended 30th June, 1889, &c.—*Concluded.*

received, with the disposition made of them—*Concluded.*

How disposed of.	—	—	—	—
Brought forward.....			99,504	783,796
SPECIAL LETTERS— <i>Concluded.</i>				
Circulars received for postage, returned to senders.....	315			
do do destroyed.....	75			
do received for better address, returned to senders		390		
or forwarded to address .....	291			
do received for better address, destroyed.....	461			
		752		
Books, Parcels, &c., held for postage, address, enclosures,			1,142	
or not called for, returned to senders.....		1,604		
Books, Parcels, &c., held for postage, address, enclosures,				
or not called for, sent to address .....		2,784		
Books, Parcels, &c., held for postage, address, enclosures,				
or not called for destroyed, being of no value and the		1,159		
Department being unable to deliver or return.....				
Books, Parcels, &c., held for postage, address, enclosures,				
or not called for, remaining on hand (including balance		3,309		
of previous years) on 30th June, 1889.....			8,856	
				105,502
Grand Total.....				893,298

MARY.

Dead Letters disposed of.....	778,375
Special do .....	105,404
Letters on hand, 30th June, 1889.....	9,519
	893,298

WILLIAM WHITE,  
*Deputy Postmaster General.*



TABLE No. 2.—Showing the number of Letters received containing Money or other enclosures of value ; the amount and nature of their contents ; the number of such Letters delivered during the Year, and the number remaining undelivered.

No. of Letters received during the Year ended 30th June, 1889.	Nature of Contents.	Value of contents of Letters received during the Year ended 30th June, 1889.	No. of Letters delivered of those received during the Year ended 30th June, 1889.	No. of Letters undelivered on 30th June, 1889, and now lying unclaimed in D. L. O.	No. of Letters undelivered on 30th June, 1889, and now in hands of Postmasters awaiting claim.
		\$ cts.			
4,545	Money (including \$6.06 enclosed in letters under other heads.....)	25,986 05½	4,173	206	166
56	Bills of Exchange .....	17,648 29	53	2	1
6	Bonds .....	21,342 80	6		
435	Cheques .....	53,924 83	406	8	21
332	Drafts .....	58,505 30	320	5	7
2	Letters of Credit .....	257 00	2		
639	Money Orders .....	13,583 31	593	14	32
61	Orders .....	3,436 97	58	2	1
11	Passage Certificates .....	547 86	10		1
378	Promissory Notes .....	77,445 42½	356	8	14
782	Receipts .....	68,143 01	743	21	18
6	Stock Certificates .....	5,082 00	5		1
6	Various Certificates .....	15,300 03	6		
607	Registered Letters sent to Dead Letter Office, London, England.....		607		
475	Registered Letters sent to Dead Letter Office, Washington, U. S. A.....		475		
28	Registered Letters sent to Dead Letter Offices, other countries.....		28		
98	Deeds .....		96	2	
64	Documents of Value .....		59		5
1	Certificates—American Legion of Honor.....		1		
2	do A. O. U. W.....		2		
1	do Architects.....			1	
10	do Baptism .....		8		2
1	do Birth .....		1		
1	do Board of Trade.....		1		
1	do Carpenters and Joiners.....		1		
18	do Character .....		16	2	
1	do Cigarmaker's Union.....		1		
12	do Commercial Travellers .....		12		
5	do Deaths.....		5		
1	do Endowment .....		1		
2	do Entrance Examination .....		2		
6	do Foresters.....		6		
2	do Freemasons.....		2		
4	do Good Templars .....		4		
6	do Homestead Patents.....		6		
1	do Infantry .....				1
1	do Insanity .....		1		
8	do Insurance .....		8		
1	do Knights of Labor .....		1		
1	do Law Society.....		1		
2	do Locomotive Firemen.....		2		
22	do Marriage.....		21	1	
10	do Medical .....		9	1	
9	do Membership .....		9		
7	do Oddfellows.....		7		
8	do Orange Lodge .....		8		
5	do Ownership .....		5		
1	do Pedigree of Stock .....		1		
4	do Pensioners .....		4		
3	do Pre-emption .....		2		1
5	do Registration .....		4	1	
2	do Royal Templars.....		2		

TABLE No. 2—Showing the number of Letters received containing Money or other enclosures of value, &c.—*Continued.*

No. of Letters received during the Year ended 30th June, 1889.	Nature of Contents.	Value of contents of Letters received during the Year ended 30th June, 1889.	No. of Letters delivered of those received during the Year ended 30th June, 1889.	No. of Letters delivered on 30th June, 1889, and now lying unclaimed in D. L. O.	No. of Letters delivered on 30th June, 1889, and now in hands of Postmasters awaiting claim.
		\$ cts.			
1	Certificates—Sale.....		1		
2	do Scholars.....		2		
12	do School Teachers.....		12		
6	do Seaman's.....		3	3	
2	do Sheriff's.....		2		
1	do Steamboat.....		1		
19	do Various.....		16	1	2
1	do Weights and Measures.....		1		
4	Abstracts.....		4		
7	do of Title.....		5		2
1	Accident Insurance Ticket.....		1		
8	Account Books.....		8		
25	Affidavits.....		25		
29	Agreements.....		26	1	2
1	Album.....		1		
1	Anchor (gilt).....			1	
7	Applications.....		7		
1	Articles of Clerkship.....		1		
6	Assignments.....		6		
7	Baggage Checks.....		6		1
4	Bead Work.....		4		
3	Bibles.....		2	1	
1	Bib.....		1		
1	Bill of Cost.....		1		
2	Bills of Sale.....		2		
1	Blood Stone.....		1		
60	Books.....		55		5
2	Boots.....		2		
1	Braces (Pair of).....		1		
1	Brooch (Asbestos).....		1		
3	do (Gilt).....			2	1
1	Chair Tidy.....		1		
1	Check.....		1		
1	Child's Clothes.....		1		
1	Cigar Case.....		1		
6	Contracts.....		6		
2	Cotton Handkerchiefs.....		1	1	
2	Coupons.....		2		
1	Crape.....		1		
1	Crochet Needle.....			1	
1	Crown Grant.....		1		
1	Cuff Buttons (Gilt).....		1		
12	Declarations.....		11		1
2	Deeds of Sale.....		2		
1	Derby Sweepstake Ticket.....		1		
1	Diamond Ring.....		1		
1	Diploma.....		1		
11	Discharge—N. W. M. Police.....		11		
4	do Seaman.....		2	2	
2	do Soldier.....		2		
4	Dominion Land Grants.....		4		
1	Drawing.....		1		
2	Dress Goods.....		2		
1	Duplicate Ticket.....		1		
5	Dyes.....		4	1	
4	Ear-drums.....		4		
2	Ear-rings (Gilt).....		1	1	
1	Emerald.....		1		
1	Examination Papers.....		1		

TABLE No. 2—Showing the number of Letters received containing Money or other enclosures of value, &c.—*Continued.*

No. of Letters received during the Year ended 30th June, 1889.	Nature of Contents.	Value of contents of Letters received during the Year ended 30th June, 1889.	No. of Letters delivered of those received during the Year ended 30th June, 1889.	No. of Letters undelivered on 30th June, 1889, and now lying unclaimed in D. L. O.	No. of Letters undelivered on 30th June, 1889, and now in hands of Postmasters awaiting claim.
		\$ cts.			
1	Execution .....		1		
1	Exhibition Ticket .....		1		
2	Express Réceipts .....		2		
2	False Teeth .....		2		
2	Fancy Work .....		2		
4	Foreign Stamps .....		4		
1	Fountain Pen .....		1		
2	Fruit .....		2		
2	Fur Caps .....		2		
3	Glass .....		3		
1	Glass Eye .....		1		
4	Gold Jewellery—Bracelets .....		4		
12	do Brooches .....		8	4	
1	do Case for Ear-rings .....			1	
4	do Chains .....		4		
2	do Cuff Buttons .....		1	1	
4	do Ear-rings .....		3	1	
58	do Finger Rings .....		49	8	1
4	do Locket .....		3	1	
1	do Locket and Chain .....		1		
2	do Pens .....		2		
10	do Pins .....		7	3	
6	do Spectacles .....		6		
1	do Toothpick .....			1	
10	do Watches .....		9	1	
2	Gold Quartz .....		1	1	
1	Hat .....		1	1	
1	Hood .....		1		
1	Insurance Agent's Book .....		1		
162	Insurance Policies .....		154	1	7
2	Invoices .....		2		
7	Keys .....		6	1	
3	Kid Gloves .....		3		
3	Lace .....		2	1	
1	Land Contract .....		1		
8	Leases .....		7	1	
87	Legal Documents .....		83		4
2	Letters of Administration .....		2		
1	Linen Apron .....		1		
1	Licenses—Auctioneer .....		1		
2	do Pedlar .....		2		
1	do Tavern .....		1		
2	Life Insurance Bonus Certificate .....		1		1
1	Lock (Gilt) .....		1		
2	Locket (Gilt) .....		2		
1	Machinery .....		1		
2	Maple Sugar .....		1	1	
3	Medals .....		3		
2	Medical Diploma .....		2		
2	Medicine .....		2		
1	Meerchaum Pipe .....			1	
2	Membership Tickets .....		2		
1	Metal Time Check .....		1		
2	Minerals .....		2		
1	Manicure Set .....		1		
2	Mining Reports .....		2		
2	Moccasins .....		2		
22	Mortgages .....		21		1
14	do Chattel .....		14		

TABLE No. 2.—Showing the number of Letters received containing Money or other enclosures of value, &c.—*Continued.*

No. of Letters received during the Year ended 30th June, 1889.	Nature of Contents.	Value of contents of Letters received during the Year ended 30th June, 1889.	No. of Letters delivered of those received during the Year ended 30th June, 1889.	No. of Letters undelivered on 30th June, 1889, and now lying unclaimed in D.L.O.	No. of Letters undelivered on 30th June, 1889, and now in hands of Postmasters awaiting claim.
		\$ cts.			
5	Mortgages, Discharges of. ....		5		
1	Muffler. ....		1		
1	Naturalization Papers. ....		1		
1	Necktie. ....		1		
1	Oil. ....		1		
1	Old Letters. ....		1		
2	Ostrich Feathers. ....		1	1	
1	Oxidized Silver Chain and Charm. ....		1		
30	Pass Books—Bank. ....		29		1
10	do Building and Loan. ....		8	2	
19	do Savings Bank. ....		18		1
1	Patent Medicine. ....		1		
2	do for Harrow. ....		2		
1	do Watchmakers' Pliers. ....		1		
3	Pawn Tickets. ....		3		
2	Pearls. ....		2		
1	Pedigree. ....		1		
1	Pencil (Gilt). ....		1		
5	Permits—Liquor. ....		5		
1	do Ticket Sellers. ....		1		
1	do Timber. ....				1
1	Petition to Parliament. ....		1		
1	Photo (large). ....		1		
5	Pills (Boxes of). ....		4	1	
2	Pins (Gilt). ....		1	1	
4	Plans. ....		3	1	
2	Pocket Knives. ....		2		
14	Powers of Attorney. ....		14		
2	Prayer Books. ....		2		
1	Probate of Will. ....		1		
1	Railway Book of Tickets. ....		1		
8	do Passes. ....		8		
26	do Ticket. ....		22	4	
1	Razor. ....		1		
7	Registered Letters. ....		6		1
1	do Letter Receipt. ....			1	
2	Releases. ....		2		
1	Revolver. ....			1	
14	Rings (Gilt). ....		8	4	2
1	Scarf Pin. ....			1	
1	School Return. ....		1		
3	Seeds. ....		2	1	
1	Sewing Machine Needles. ....		1		
3	Shawls. ....		3		
2	Ships Papers. ....		2		
2	Silk. ....		2		
2	do Gloves. ....		2		
17	Silk Handkerchiefs. ....		15	1	1
2	Silver Jewellery—Bracelets. ....		1	1	
11	do Brooches. ....		8	3	
2	do Chains. ....		2		
2	do Ear-rings. ....		1	1	
1	do Monogram. ....		1		
1	do Pin. ....		1		
1	do Scent Bottle. ....			1	
35	do Watches. ....		29	5	1
1	Silver Spoon. ....		1		
1	Lock. ....		1		
1	Solar Time Piece (Gilt). ....			1	

TABLE No. 2—Showing the number of Letters received containing Money or other enclosures of value, &c.—*Concluded.*

No. of Letters received during the Year ended 30th June, 1889.	Nature of Contents.	Value of contents of Letters received during the Year ended 30th June, 1889.	No. of Letters delivered of those received during the Year ended 30th June, 1889.	No. of Letters under- livered on 30th June, 1889, and now lying un- claimed in D.L.O.	No. of Letters under- livered on 30th June, 1889, and now in hands of Postmasters await- ing claim.
		\$ cts.			
5	Spectacles.....		4	1	
2	Statements of Claim.....		2		
3	Steamboat Passes.....		2	1	
1	Stethoscope.....		1		
1	Stock Book.....		1		
1	Stylographic Pen.....		1		
20	Summons.....		18	1	1
1	Testimonial of Merit.....		1		
2	Tobacco.....		2		
3	do Pouch.....		3		
1	Trinkets.....		1		
4	Trusses.....		3	1	
13	Unopened Letters.....		10	1	2
2	Victoria Rifle Armory Tickets.....		2		
3	Waists of Dresses.....		3		
1	Watches—Brass.....		1		
1	do Chain Gilt.....		1		
2	do Gilt.....		2		
2	do Nickel.....		2		
2	do (Parts of).....		2		
1	do (Sundial).....		1		
1	do (Works).....		1		
1	do Seal.....		1		
6	Wills.....		6		
1	Wood Cut.....		1		
2	Wooden Pipes.....		2		
19	Woollen Goods.....		18	1	
3	Woollen Mitts.....		3		
21	Writs.....		21		
9,873		361,202 88	9,209	354	310
17,917	Add to these ordinary Registered Letters not enumerated above and letters containing value not enumerated above which have been returned, forwarded or otherwise disposed of, as shown in Table I. ....		17,175	204	538
	Grand Total of letters containing value disposed of. ....		26,384	558	848
	Grand Total of Letters unclaimed in Dead Letter Office.....		558		
	Grand Total of Letters in hands of Postmasters.....		848		
27,790			27,790		

450 Letters remained in hands of Postmasters on the 30th June, 1888.  
All of these have been satisfactorily accounted for.

WILLIAM WHITE,  
*Deputy Postmaster General.*

W. D. LESUEUR,  
*Secretary.*