1-2 EDWARD VII.

A. 1902

ANNUAL REPORT

OF THE

DEPARTMENT OF THE INTERIOR

FOR THE YEAR

1900-1901

PRINTED BY ORDER OF PARLIAMENT



O T T A W A PRINTED BY S. E. DAWSON, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY 1901

[No. 25-1902]

-

•

.

. . . .

•

To His Excellency the Right Honourable Sir Gilbert John Elliot, Earl of Minto, G.C.M.G., &c., &c., Governor General of Canada.

MAY IT PLEASE YOUR EXCELLENCY :---

The undersigned has the honour to lay before Your Excellency the Report of the transactions of the Department of the Interior for the fiscal year ending June 30, 1901.

Respectfully submitted,

CLIFFORD SIFTON,

Minister of the Interior.

OTTAWA, November 30, 1901.

PAGE.

TABLE OF CONTENTS

Report of the Deputy Minister of the Interior.

PART L-DOMINION LANDS.

p

Report	oľ	the	Commissi	oner	1
	**		Inspector	of Agencies	4
	• *		Agent at	Alameda	10
			**	Battleford	12
				Brandon	14
				Calgary	15
				Dauphin	16
				Edmonton	18
				Kamioops	20
				Lethbridge	21
				Minnedosa	23
				New Westminster	24
	(*			Prince Albert	25
				Red Deer	26
				Regina	28
				Winnipeg	29
				Yorkton	33
			Chief Insp	ector of Surveys	34
			Chief Cier	k, Timber, Mineral, Grazing and Irrigation	36
			Crown Ti	mber Agent, Winnipeg	92
					100
	6				104
				Prince Albert	107
				Edmonton	111
			Ordnance		113
					118
			Accountan	t of the Department	122
					131
				of Correspondence	136

PART IL-IMMIGRATION

REPORTS OF HIGH COMMISSIONER AND EUROPEAN AGENTS.

Report	of	the High Commissioner for Canada	5
		W. T. R. Preston, Inspector of Agencies in Europe	10
**		G. H. Mitchell, Assistant Agent, Liverpool	15
		Alfred F. Jury, Agent for North of England	18
		W. L. Griffith, Agent in Wales	21
44		H. M. Murray, Principal Agent for Scotland	27
**		John Grant, Agent In Scotland	31
		Thomas Duncan, Agent in Scotland	33
		C. R. Devlin, Canadian Commissioner, Ireland	35
**		E. O'Kelly, Agent in Ireland	38
**		John Webster, Agent in Ireland	39
*1		D. Treau de Cœll, Agent in Belgium	40

REPORTS OF AGENTS IN EASTERN CANADA.

Report	of	J. V. Lantalum, Immigration Agent at St. John, N.B.	42
**		F. W. Annand, Immigration Agent at Halifax, N.S	50
		P. Doyle, Immigration Agent at Quebec, P.Q	64
**		John Hoolahan, Immigration Agent at Montreal, P.Q	78
		G. Bogue Smart, Inspector British Immigrant Children and Receiving Homes	94

REPORTS OF IMMIGRATION OFFICIALS IN WESTERN CANADA.

Report	of	the	Commissi	oner of	Immigration			 109
		C. V	V. Speers.	Genera	l Colonization	Agent		 140

REPORTS OF OPERATIONS IN UNITED STATES.

Report	of W. J. White, Inspector of Agencies	143
	M. V. McInnes, Detroit, Michigan	147
	Jas. N. Grieve, Sauit Ste. Marie, Michigan	149
	E. T Holmes, Indianapolis, Indiana	151
+1	J. Young, Columbus, Ohio	152
	C. J. Broughton, Chlcago, Hilinols	153
	Benjamin Davies, St. Paul, Minnesota .	
	Charles Piiling, St. Paul, Minnesota	
	J. M. MacLachlan, Milwaukee, Wisconsin	156
	W. V. Bennett, Omaha, Nebraska	
	J. S. Crawford, Kansas City, Missouri	158
	W. H. Rogers, Watertown, South Dakota	
		160
	W. Ritchie, Grafton, North Dakota	161
	Rev. M. Blals, on French Colonization	162
	Rev. H. L. Gouin, on French Colonization	
	Damase Gauthler, on French Colonization	
	C. O. Swanson, on Scandinavian Immigration	165

vi

PAGE.

Quebec and Lake St. John Raliway Colonization Department	166
A. Ribout, on Northern Temiscaming	168
R. A. Burriss, on Rainy River and Thunder Bay	170
T. A. Brisson, General Agent Repatriation and Colonization Society of Montres	ai. 173
T. O. Currle, Milwaukee, Wisconsin	175

PART III .-- DOMINION LANDS SURVEYS.

	1
Schedule of Surveyors employed and work done	14
List of Lots in Yukon Territory surveyed and surveys confirmed	17
Survey Records Branch, statement of work	21
Photographic Office, statement of work	21
Lithographic Office, statement of work	22
List of Dominion Land Surveyors supplied with standard measures	23
Report of Cyrus Carroll, D. L. S	25
" Thos. Turnbuil, D. L. S	27
" James Dickson, D. L. S	30
" J. C. Desmeules, D. L. S	33
" P. R. A. Belanger, D. L. S	38
" A. J. Brabazon, D. L. S	42
" J. A. Belleau, D. L. S	43
"Louis E. Fontalne, D. L. S	46
"W. F. O'Hara, D. L. S	50
	52
Albert C. Talbot, D. L. S	55
J. K. McLean, D. L. S	58
C. C. DuBerger, D. L. S	60
	63
W. J. Deans, D. L. S	65
	68
	76
	85
	95
	98
	125
Elevations and distances	132
	132
	133
Meteorologicaj observations 1	134
Barometer readings	

LIST OF PLATES ACCOMPANYING REPORTS OF GEORGE WHITE-FRASER, D.T.S. AND ARTHUR SAINT CYR, D.L.S.

No.	PAGE.
1 Storm on Lake Bennett, near Watson River	159
2. Watson River	161
3. Gorge at Head of West Arm	163
4. View from Summit between West Arm and Weaton River looking South	

DEPARTMENT OF THE INTERIOR

PAGE.

SESSIONAL PAPER No. 25

NO.

5. On Pass from West Arm to Wheaton River	167
6. View of Wheaton River Valley, from Summit	169
7. New River, looking W. and S. from Divide into Wheaton River	171
8. New River, from Lake Side, looking North	173
9. Lake on Summit, overlooking Takhini River	175
10. Takhini River from near Post L., looking South	177
11. Packing up Dalton Trail ; River Bottom	179
12. Packing	181
13. Camp on Alsek River, Post M	183
14. N. W. M P. Post at Dalton House	185
15. Clossing Alsek River at Dalton House	187
16. Mountains West of Kaskawulsh	189
17. Maine Hotel, Lake Wares	191
18. Happy Valley	193
19. Dry Bed of Old River in the Happy Valley	195
20. One Mile West of Morin Mt., looking West	197
21. Foot of White Range, facing West	199
22. Foot of Red Range, facing East, Post 51	201
23. Boundary Line, 120 feet West of Post 56, looking West	203
24. Boundary Line, 840 feet West of Post 56, looking West	205

LIST OF PLATES ACCOMPANYING REPORT OF J. W. TYRRELL, D.L.S.

	Members of Expedition at Chippewyan	
	Old Fort Reliance	
3.	Second Rapid, Lockhart River	213
4.	Lower Drop of Parry Falls	215
	An Early Spring Bath, Kipling Lake	
6.	Lunch at Crossing of Saskatchewan River	219
7.	Lac-la-Biche, Hudson's Bay Company's Post	221
8.	Halt for Lunch at a Hunter's Camp	223
9.	Fort McKay, Athabasca River	225
10.	Fort Chippewyan	227
	Slave River, North from Fort Smith	
12.	Fort Resolution, Great Slave Lake	231
13.	Hudson's Bay Company's Dwelling, Fort Resolution	233
14.	Interior Roman Catholic Church, Fort Resolution	235
15.	Sleds constructed at Fort Resolution for expedition	237
16.	Ice pressure on Great Slave Lake	239
	Halt for lunch at Big Point, Great Slave Lake	241
	Camp 11 Miles	
19.	Sleds at Swallow Islands, Great Slave Lake	245
20.	Pyke's Portage Landing, Great Slave Lake	247
	Glacier Creek, Charlton Harbour	249
	Deer Trails at Fort Reliance	
23.	Old Fort Reliance	253
24.	Parry Falls, from West Bank	255
	White Spruce Timber, Burr Lake, Pike's Portage	
	Camp on West Shore Artillery Lake	
27.	Camp in Last Woods, on East Shore Artillery Lake	261
28.	South End Crystal Island, Artillery Lake	263

viii

TABLE OF CONTENTS

SESSIONAL PAPER No. 25

No.	:	Pios.
29. A Fifteen-Minute Catch, Artillery Lake		265
30. Cache of Provisions, Artillery Lake		
31. Difficult Canoe Navigation		
32. Camp at Height of Land		271
3. Sifton Lake and Cairn on Musk Ox Hill		
34. Baby Musk Ox, Sifton Lake		
35. Rapids at Station 321, Hanbury River		277
36. Dickson Canyon, Hanbury River		
37. Dickson Canyon, Hanbury River		281
38. Hanbury River, Lelow Dickson Canyon		283
39. Heien Falis, Sixty Feet, Hanbury River		285
40. Junction of Theion and Hanbury Rivers		287
1. Sandstone Cliffs, at Forks of Hanbury and Thelon		289
2. Eskimos on Theion River		291
3. Canoe Salling on Upper Thelon River		293
4. Eskimos on Theion River		295
45. Eskimos in Kyacks on Theion River		297
16. Peter French, Iroquois Steersman		299
17. Portaging First Rapids on Upper Theion		301
18. Lunch on Sandy Shore of Upper Thelon River		303
19. Farthest Camp on Upper Thelon		305
50. View of Upper Theion from Cairn Hili		307
51. Cairn Hiil at Farthest Point on Upper Theion River		309
52. J. W. Tyrreil, as on 160 Mile Tramp		311
53. J. W. Tyrreii, as Camped on 160 Mile Tramp		
54. South Extremity Artillery Lake		315
55. Surf at Stony Island, Great Slave Lake		317
56. Wrecked on Stony Island, Great Slave Lake		319
57. Hauled up at Fort Resolution for Repairs		321
58. Wooding-up at Fort Brulé, Slave River		
59. Cutting Wood for Argo on Slave River		325
50. Expedition Crossing Emlth Portage		
31. Dog Team and Carry-all Arriving at Lac-la-Biche		329

PART IV.-ROCKY MOUNTAINS PARK.

Report of the Superintendent		
" Caretaker Cave and	Basin	9
Meteorological Tables		

LIST OF PLATES ACCOMPANYING ROCKY MOUNTAINS PARK REPORT.

1.	Buffalo, Banff, Aita		19
2.	The Basin, Banff		21
3.	Cascade Mountain, Banff		23
4.	Bow Valley, from C. P. R. Hotel, Banff		
5.	Devil's Head Canyon, Banff		
	Rocky Mountain Park, Banff		

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

PAGE.

PART V .--- NORTH-WEST REGISTRARS.

Report	of	Inspector	of	Land	Titles	Office	s	 		 		 	 			 1
**		Registrar	at	Battl	eford			 	 	 	 			 	• •	4
**				Prince	e Albe	rt		 	 	 	 		 			5
		**		Regin	a			 	 	 	 			 		 5
				Calga	ry			 	 	 	 					 6
		44		Edmo	nton .			 	 	 	 		 • •			 7

PART VI .- HALF-BREED COMMISSIONERS.

Report of	Commissioners	McKenna	and Walker	 Ł
+ 4	**	Côté and	McLeod	 5

PART VII .--- KEEWATIN.

Report	of His	Honour	Lleutenant	Governor	McMillan					1
--------	--------	--------	------------	----------	----------	--	--	--	--	---

PART VIII .-- FORESTRY.

Report	0f	Superintendent Stewart
		Norman M. Ross 13
**		A. P. Stevenson
**		John W. Thompson
**		C. A. Walkinshaw 19
44		Thomas Young
44		James Leamy 21
		D. J. McDonald 23

LIST OF PLATES ACCOMPANYING REPORT OF THE SUPERINTENDENT OF FORESTRY

No.

1.	Plantation Set Out under Government Co-operative Scheme	27
2.	In Stanley Park, Vancouver, B.C	29
3.	Arbutus or Madrona Tree	31
4.	Dominion Forestry Exhibit at the Brandon Fair	33
5.	In the Rocky Mountains, near Lake Louise	35
6.	In the Cypress Hills in Western Assinibola	37
7.	Vlew of the Prairie, with Rocky Mountains in Distance	39

PART IX.-YUKON.

Report	of	the Commissioner of the Territory	1
		Gold Commissioner	7
**		Comptroller	10
**		Crown Timber and Land Agent	11
		Registrar	14
		Director of Surveys	15

MAPS

[IN POCKET.]

MAPS TO ACCOMPANY REPORT OF THE SURVEYOR GENERAL.

Map of Exploration Survey of Divide between Great Slave Lake and Hudson Bay, Districts of Mackensis and Keewatin, Dominion of Canada (22 sheets), accompanying report of J. W. Tyrrell, D.LS.

Index Map to above.



ANNUAL REPORT

OF THE

DEPARTMENT OF THE INTERIOR

FOR THE YEAR 1901.

Department of the Interior, Ottawa, October 28, 1901.

To the Hon. CLIFFORD SIFTON, Minister of the Interior.

Sug.-I have the honour to submit the report of the Department of the Interior for the twelve months ending June 30, 1901, being the 28th annual statement since the inception of the department in 1873.

As will be observed from the different returns submitted, which have been prepared with a view specially to affording every possible information of interest regarding the varied services under the immediate control of the department, the result of the work generally has been most satisfactory. Substantial increases have been recorded in the general revenue of the department, in the total acreage of land disposed of by sale by the government and railway companies, and what is the best indication of the development of the country, in the number of free homestead entries granted to bona fide settlers who have located on farms in western Canada. A careful examination of the returns for the last five years, as compared with the corresponding preceding period, will show the extent of the improvement that has been brought about in the results obtained through the efforts put forth by the department to open up to settlement the agricultural fields of Manitoba and the North-west Territories. The expectations for the past year would appear to have been fully justified, and the methods followed by the department in this relation have been attended with such marked success, that it is proposed to operate as nearly as possible on similar lines during the coming season. It is gratifying to note that the large increase in the population of Manitoba and the North-west Territories, as shown by recent census returns, has been chiefly due to the movement of immigration which the department in the last few years has succeeded in

25-0

directing towards western Canada, and that the additions thus gained to the population are composed of settlers who have proved themselves to be entirely self-sustaining and in every way worthy of Canadian eitizenship. There is, therefore, every evidence that Manitoba and the Territories have entered upon an era of prosperity, which, coupled with the bountiful harvest of the past season will contribute in no small degree to bring their great argicultural resources prominently before the emigrating world.

DEPARTMENTAL CHANGES.

Amongst the important changes that have been made in the personnel of the department may be mentioned the appointment, on January 18, 1901, of Mr. J. Obed Smith, of Winnipeg, as Commissioner of Immigration, in lieu of Mr. W. F. McCreary, who had resigned that office on September 30 previous. Mr. Smith has been a resident of Manitoba for a number of years, and being possessed of superior administrative abilities, and a thorough knowledge of the country, he should prove himself fully competent to discharge the duties of his office to the satisfaction of the department and of the public.

I desire also to record the appointment, on the 5th of June last, of Professor Eugene Jiaanel, Ph. D., as Superintendent of Mines, in lieu of Mr. William Pearce, who was transferred, by Order in Council of the 5th June, to the office of Chief Inspector of Surveys.

It may be explained in this relation that in view of the recent development of mining industries in the Yukon Territory and other sections of the country where the lands are under the control of the Dominion government, it was felt that provision should be made for the appointment of a special technical officer whose scientific knowledge and practical experience in mining matters would fit him to take charge of this particular branch, such officer to advise the department upon the requirements in connection with this service and prepare reliable information for publication. Professor Haanel, who was latterly employed as Professor of Physics at the University of Syracuse, in the state of New York, had previously, for some fifteen years, held the chair of science at the Victoria University, Cobourg, Ont. He is a member of the Royal Society of Canada, an expert mineralogist, and otherwise specially qualified by scientific knowledge and attainments to take charge of the important position to which he has now been appointed. He has already rendered very valuable services in connection with the establishment of the new Dominion assay office at Vancouver, and as he will be specially charged with the compilation of accurate information and official statistics with regard to mines and mining industries generally throughout the Dominion, there is no doubt that he will thus be in a position to supply a long felt want in this respect.

Mr. Pearce, who is fully conversant with the Dominion system of surveys, having been continuously connected with the same in various capacities since the year 1874, will in future be entrusted with the work of superintending the inspection of surveys, as well as other special duigs which may be entrusted to him by the department.

REPORT OF THE DEPUTY MINISTER

SESSIONAL PAPER No. 25

OFFICE ACCOMMODATION.

Owing to the large increase in the work of the department, it was found necessary to provide new quarters for the Topographical Surveys Branch, and for this purpose very commodious offices have been leased at the corner of Metalfe and Slator streets, and are now occupied by the Surveyor General and his staff. The increased accommodation which has thus been provided will afford better facilities for the performance of the important technical work which is conducted under the direction of the Surveyor General, and at the same time permit of the lithographic office being equipped in such a way as to be in a position to cope with the increasing demands that are made upon it.

It was also decided to move the Immigration Branch from the Langevin Block to more suitable quarters, and with this end in view, one flat of the new Imperial Building, on Queen street, has been secured and is now occupied by the Superintendent of Immigration and the officials employed under him. These offices are centrally located, and will afford ample accommodation for the staff, as well as for the storage of the large stock of immigration literature which has to be kept on hand, and which in the Langevin Block formed a constant source of danger from fire, lying as it did in the halls and doorways, for lack of storage room.

I wish to state here that it would certainly be in the interest of the department that all the offices under its control at headquarters should be in one building, and it is hoped that some means may be devised at an early date to have this done. In the meantime, however, the arrangements that have been made would appear the best possible under the circumstances, and will answer the purposes of the denartment.

Revenue.	Fiscal Year 1899-1900. Cash and Scrip.	Fiscal Year 1900-1901, Cash and Scrip.	Increase.	Decrease.	Total Net Increase
Dominion Lands	8 cts. 1,503,743 00 220,874 78 15,271 84 11,043 53 1,452 92 24,711 69 3,664 00 1,780,761 76	\$ cts. 1.874,159 09 48,049 83 15,711 63 14,604 47 1.977 95 33,979 77 1.587 57 1,990,070 32	\$ cts. 370,416 09 439 79 3,560 94 525 04 9,268 08	 8 cts. 172,824 95 2,076 43 174,901 38 	\$ cts.

STATEMENT showing Gross Revenue (Cash and Scrip) received from all sources during the fiscal year 1900-1901, compared with the receipts for the previous fiscal year, 1599-1900.

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

REVENUE AND EXPENDITURE.

The total revenue of the department for the past fiscal year ending June 30, 1901, as shown by the foregoing statement, amounted to \$1,990,070.32, being a net increase of \$209,306.56 over the preceding year.

The increase under the heading of Dominion lands has been \$370,416.09. This includes the revenue from the officials of the department in the Yukon Territory, but as the increase from this latter source was only \$105,103.06, it leaves a net increase of \$265,313.03 in the revenue on account of Dominion lands in Manitoba, the Northwest Territories and within the railway belt of British Columbia.

It may also be pointed out that the revenue from school lands during the fiscal year 1899-1900, when extensive sales were held throughout Manitoba and the Territories, amounted to &20,74.78, whereas the revenue from the same source fell to &45,040.83 this year, which is a total decrease of &172,824.95. This revenue is not chargeable to Dominion lands, and should hardly be taken into account when ecomputing the business of the department, as the sales of school alads are not held at regular intervals, and the revenue derived therefrom is devoted exclusively to the school endowment funds of the province of Manitoba and the North-west Territories. Leaving out this item, therefore, from the gross revenue for the past year, as compared with the previous year, the net increase as between the two would be &322,133.81in favour of the former.

iv

STATEMENT showing Receipts on account of Dominion Lands from July 1, 1872, to June 30, 1901.

SESSIONAL PAPER No. 25

Timber Dues.	8 10,000 10,0	2,060,998 94
Inspection, Can- cellation and Sundry Fees.	Club, 2019, 201	216,518-78
Miscellaneous, including Trust.	\$ 6.4. 1135 50 1135 50 1138 50 113 70 113 70 110 110 70 110 110 110 110 110 110 110 110 110 1	518,343 !!
Surveyor's Examination Pees.	**************************************	6,270 00
Map sales, Office and Registra- tion Fees, &c.	 Cit. <li< td=""><td>34,617 49</td></li<>	34,617 49
Es. Serip.	 An of the second second	3,131,382 39
SALES. Cash.	* ***********************************	3,672,313 83
Improve- ments.	 Ctol. 	17 782,08
Homestead Pre-emption Free.	\$ C15, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	206,741-01
Honrestead Foos.	⁸ Celo, ¹⁷ (2000) ¹⁷ (2000) ¹⁷ (2000) ¹⁷ (2000) ¹⁷ (2000) ¹⁷ (2000) ¹⁴ (15,000) ¹⁴ (15,000) ¹⁴ (15,000) ¹⁴ (15,000) ¹⁴ (15,000) ¹⁴	96 188'053
Fiscal Year.	144 144 144 144 144 144 144 144 144 144	

ri
2
570
Cl
onc
5
Ē.
8
-
5
30,
ne
ġ.
5
2
5
ŝ
81
22
-
\geq
2
E
5
144
30
ă
2
ä
Ξ.
- 2
8
A.
-
of
nt
'n
8
SC.
en en
10
pts
eij
50
2
gu
1
0
8h
LN
M B
8
AT.
ST
34

	GRAZING	FRAZING LANDS.	HAY PERMITS, MINING FEES, STO QUARRIES, &O.	HAT PERMITS, MINING FEES, STONE QUARRIES, &O.	Moun. Park of Ja.	COLONIZATION LANDS.	ON LANDS.	Gross	Doftendo	Not Docomo
F 196GM I R CONT.	Cash.	Scrip, &c.	Cash.	Scrip.	Canac tains Rocky	Cash.	Scrip.	Revenue,	400000	CONTO ADAT
	& cts.	S cta.	\$ cts.	\$ cts.	\$ cts.	S cts.	8 cts.		\$ ots.	\$ ots.
1873-73.								26,239 45 29,980 80		26,239 45
1874-75.								27,641 15 8 865 94		27,641 15 8,865 94
1876-77.								140,755 02		140,755 02
1878-79.								234,732 93		234,732 93
1879 80.								206,801 37	4,636-08	202,165 29 ant are as
1881-82	2,245 00		40 00			354,036 17		1,805,734 87	10,687 55	1,795,047 32
1882-83.	22,844 43		913 91			248,492 01		1,051,403 60	8,746 05	1,042,657 55
1884 85.	17.080 75		2012 2012			1.214 22		451,564 65	12.070 85	439,493,80
1885-86.	29,562 51	3,131	1,284.83					457,973 95	63,389 12	3:44,584 83
	14,242 77	39,487 67 93,093 98	1,570 40	88	9 0/1 58		10.000.00	588,532 80 NR9 986 68	19,543 16 6 277 66	568,989 64 NI3 709 02
1888 89.	2,207 69	16,802	3,946 55		2,528 73		16,000-00	594,088 04	5,226 23	588,861 81
1889-90. 1860-61	1,305 57	9,021	9,242 08	100.00	1,094 37	2.90	4 400 50	462,536 26	8,2019 74	454,326 52
1801-02	3,726 80	17.222	5,616 85	no no T	3,648 45		00 001-5		15,291 39	436,859 69
1892-93.	6,380 80	11,542	6,266 13		4,983 23			392,324 43	18,314 97	374,000 46
1804 95,	5,353 72	8,628	01 617'0 19 672'9		2,321.87			202,983 10	1365 39	198,617 11
1805.96.	7,071 86	6,255	5,813 51		2,734 82			227,694 93	8,368 79	219,326 14
1806.97.	4,715 01	2,500	8,518 18 8,518 18		2,132 11		:	2016,803 07 1 000 7.01 63	10,010 04	191,843-03
1848.99	5,245 88	200	1.130.371 60		2,994 16				32,296 39	1,552,031 93
1890-1900.	8,382.86		1,038,19542	20 (0)	2,727 60					1,480,680 72
1900-1901.	4,726 28	14,671 99	1,101,808 33		4,047 31			1,874,159 09	18,368 85	1,855,790 24
	165,942 92	180,762 49	4,036,753 94	360.00	40,131 15	857,461 08	30,450 50	16,170,228 15	304,542 19	15,865,685-96

÷	
ŝ	
-	
Ē	1
E	
Z	e
¥	1

STATEMENT showing Revenue and Expenditure chargeable to income, Yukon Territory, from July 1, 1894, to June 30, 1901.

SESSIONAL PAPER No. 25

Wardow Wandow Wandow Wandow Wandow \$\$ 44, 19 \$\$ 45, 20 \$\$ 46, 20	Meal Jose Final Jo
--	---

Wir The absorb set with under our address that a careful a constraint of the constraint on a data indicates an extra a weak train and the constraint on the constraint on the data indicates are as weak train and the constraint of the constraint

From this statement it will be observed that since the establishment of the government of the Yukon Territory in 1894, the excess of revenue over expenditure, in connection with the administration of the district, has been \$773,574.63, including all sums charged to capital account, the surplus exclusive of these sums being \$1,501,055.11.

It will also be noted that in so far as the Department of the Interior is concerned, the surplus revenue over expenditure since 1894 has been \$3,011,456.31, which is a very satisfactory showing, considering that the bulk of the work connected with the administration of the district is under the management of this department. Mulie the department has not lost sight of the importance, in the public interest, of making adoquate provision to meet the requirements of the territory, the comparatively small expenditure that has been incurred in this relation is certainly indicative of the care which has been exercised to administer this branch of the service as economically as possible.

Fiscal Year.	Assiniboia Registration District. (Regina.)	North Alberta Registration District. (Edmonton.)	South Alberta Registration District (Calgary.)	East Saskatchewan Registration District. (Pr. Albert.)	West Saskatchewan Registration District. (Battleford.)	Yukon Territory Registration District, (Dawson.)
1890-91. 1891-92 1892-93 1893-94 1894-95 1894-95 1894-95 1895-96 1897-98 1897-98 1897-1900 1900-1901	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \$ & {\rm cts}, \\ 5,554 & 35 \\ 4,090 & 52 \\ 4,146 & 02 \\ 2,852 & 44 \\ 3,219 & 50 \\ 2,097 & 61 \\ 1,991 & 90 \\ 3,526 & 85 \\ 3,608 & 90 \\ 4,078 & 44 \\ 5,207 & 43 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 8 & {\rm cbs}, \\ 89 & 61 \\ 156 & 32 \\ 110 & 27 \\ 86 & 29 \\ 89 & 23 \\ 73 & 20 \\ 123 & 78 \\ 102 & 87 \\ 102 & 87 \\ 31 & 75 \\ 189 & 15 \\ 51 & 13 \end{array}$	\$ cts.
	79,638-92	32,150 02	40,373 96	12,850 99	1,103 10	9,816 51

STATEMENT of Revenue on Account of Registration Fees for eleven years from July 1, 1890, to June 30, 1901.

00
00
-
-
30
ne
Ju
-
51
8
ă
-
AL
P.a
2
-
-
-
.60
he
÷
1.0
in:
luri
-
8
e
ž
7
0
00
all
- C\$
-
- 8
- 2
- 54
-
2
- 5
10
9
rec
) rec
(.)
(.)
only) rec
only)
sh only)
only)
sh only)
cash only)
sh only)
(in cash only)
(in cash only)
cash only)
(in cash only)
venue (in cash only)
venue (in cash only)
revenue (in cash only)
revenue (in cash only)
oss revenue (in cash only)
coss revenue (in cash only)
revenue (in cash only)
gross revenue (in cash only)
gross revenue (in cash only)
coss revenue (in cash only)
gross revenue (in cash only)
'ly the gross revenue (in cash only)
'ly the gross revenue (in cash only)
gross revenue (in cash only)
yearly the gross revenue (in cash only)
yearly the gross revenue (in cash only)
g yearly the gross revenue (in cash only)
ing yearly the gross revenue (in cash only)
wing yearly the gross revenue (in cash only)
wing yearly the gross revenue (in cash only)
ing yearly the gross revenue (in cash only)
wing yearly the gross revenue (in cash only)
showing yearly the gross revenue (in cash only)
showing yearly the gross revenue (in cash only)
showing yearly the gross revenue (in cash only)
MENT showing yearly the gross revenue (in cash only)
MENT showing yearly the gross revenue (in cash only)
rEMENT showing yearly the gross revenue (in cash only)
rEMENT showing yearly the gross revenue (in cash only)
MENT showing yearly the gross revenue (in cash only)

Total.	 Cts., 2010, 2017, 2018 2010, 2017, 2018, 102 2011, 2018, 102 2011, 2018, 103 2013, 2018, 2018 2013, 2018, 2018 2013, 2018, 2018 2018, 2018, 2018 	3,172,049,35 244,431,31 1,022,046,25 1,639,542,452 1,649,542,452 6,311,729,86 6,311,729,86 9,485,449,21
Castal Revenue.	8 ctb. 372 79 1,075 39 261 63 262 84 622 84 1,383 96 1,383 96 1,383 96 1,383 96 1,383 96	8,970,750 2,683,05 2,683,05 2,683,05 3,687,90 1,585,57 10,816,45 10,816,45
Registration Frees.	 cts., cts., f. 212 02 f. 213 03 f. 333 53 f. 3345 353 f. 3345 353 f. 3345 353 f. 3345 354 f. 3346 354 f. 3346 354 f. 3346 354 f. 347 357 f. 375 377 f. 375 377 	82,418 74 8,207 24 8,207 24 14,263 50 10,250 75 14,707 75 18,12,80 18,12,80 180,661 88
Fines and Forfeitures,	 cts. 1,267,05 1,267,05 1,268,25 1,588,25 1,588,502 1,789,502 1,789,502	8,185,90 629,00 629,00 1,316,00 2,901,03 8,076,97 8,076,97 8,076,97
Ordnance Lands.	 cth. cth. 30,229 31,229 31,229 31,229 31,229 31,318 32,318 33,318 34,329 34,329 34,329 34,329 34,329 34,329 34,329 34,329 34,329 34,339 <	301,115 40 91,815 40 91,834 97 112,349 65 111,044 55 111,044 55 111,044 55 17,044 55 11,044 55 17,044 5517,044 55 17,044 55 17,044 55 17,044 55 17,044 5517,044 55 17,044 55 17,044 5517,044 55 17,044 55 17,044 5517,044 55 17,044 55 17,044 5517,044 55 17,045 5517,045 17,045 5517,045 17,045
Seed Grain.	8 cts. 56,146-13 55,907-44 5,907-65 5,389-21 2,389-21 2,389-21 2,752-56 8,748-05	62,212 80 9,887 13 9,887 13 12,353 71 12,353 60 15,271 83 15,771 83 15,771 83 15,771 83 15,771 83 15,771 83
School Lands, Seed Grain.	 cts., cts., d.1,188 d.1,188 d.1,188 d.1,188 d.1,188 d.1,188 d.1,181 <lid.1,181< li=""> <lid.1,181< li=""> <lid.1,181< li=""> <lid.1,< th=""><th>E1 228 286 286 286 286 286 286 286 286 286</th></lid.1,<></lid.1,181<></lid.1,181<></lid.1,181<>	E1 228 286 286 286 286 286 286 286 286 286
Dominion Lands. (Cash.)	8 cta, 223, 360 73 233, 360 73 234, 770 16 224, 770 16 234, 770 16 234, 770 16 234, 570 36 214, 510 30 174, 509 38 174, 509 38	2,100,721 17 187,424 19 187,424 19 1,456,000 74 1,456,000 74 1,456,000 74 1,566,000 75 7,656,550 75 7,556,550 75
Fiscal Year.	1867 (86 1868 (86 1868 (87)) 1868 (87) 1868 (87) 1868 (87) 1868 (87) 1868 (87) 1869 (87) 1860 (87)	. The local rest of the local rest of the local rest of the local rest of the local rest of the local rest of the local

LAND TITLES OFFICES.

There has been an increase in the amount of registration fees collected during the past year. The total revenue from this source in 1890-1900 amounted to 824,711.69, and during the past year to 833,979.77. The revenue under this head for the five years from 1890-1 to 180-6, inclusive, was 874,553.07, and for the past five years 8102,380.43, showing an increase of 897,871.83, or over 27 per cent in the amount of work performed at the registry offices. This furnishes further evidence, if any be required, of the beneficial results of the aggressive policy which has been pursued by the department within the past few years in regard to the settlement of the North-west.

STATEMENT of Land Sales by Railway Companies having Government Land Grants and by the Hudson's Bay Company.

Name.	1893.		1894.		1895.		1896.		1897.	
ivane.	Acres.	Amount	Acres.	Amount	Acres.	Amount	Acres.	Amen it	Acres.	Amount
		8		8		8				8
Hudson's Bay Com- pany			7,526	48,225	4,431	23,209	9,299	52,410	10,784	53,277
Canadian Pacific Railway Co.,	93,184	295,288	43,155	131,628	55,453	176,950	66,624	220,360	135,681	431,093
Manitoba South- Western Coloni- zation Railw'y Co	14,164	57,559	6,312	28,003	5,623	22,330	21,254	88,568	63,800	234,64
Qu'Appelle, Long Lake and Sas- katchewan Rail- road and Steam- boat Company	1.603		640		2.391		286		2.524	
Calgary and Ed- monton Railway										
Company	11,260		11,035		46,815		10,553		9,436	
Total	120.211	352.847	68,668	207,856	114,713	222.489	108.016	361.338	222.225	719.01

STATEMENT of Land Sales by Railway Companies, &c .- Continued.

Name.	1898.		1899, (Fiscal Year.)		1000. (Fiscal Year.)		1901. (Fiscal Year.)	
	Acres.	Amount.	Acres.	Amount.	Acres.	Amount,	Acres.	Amount.
		8		8		8		8
Hudson's Bay Company	62,000	310,000	56,875	274,625	70,196	352,631	82,308	399,804
Canadian Pacific Railway Com- pany	242,135	757,792	261,832	814,857	379,091	1,152,836	339,985	1,046,665
Manitoba South-Western Coloni- zation Railway Company	106,473	363,982	58,019	199,458	133,507	457,449	59,749	214,953
Qu'Appelle, Long Lake and Sas- katchewan Railroad and Steam- boat Company.	22,534		61,030	178,517	18,932	53,974	22,266	74,810
Calgary and Edmonton Railway Company	15,481		24,738	53,335	46,653	128,256	116,719	352,037
Total	448,623	1,431,774	462,494	1,520,792	648,379	2,145,146	621,027	2,088,269

LAND SALES.

The total acreage disposed of by railway companies is not quite as large as for the previous year, but the combined area of lands sold by the department and companies amounted this year to 712,506 acres, as against 699,178 acres in 1590, showing an increase of 13,388 in favour of 1901.

It may be further stated in this relation that during the past year there was a total area of 231,076 acres of land granted by the department in redemption of half-breed scrip, a very large proportion of which it is reasonable to suppose has been taken up by actual settlers. By adding this area to the figures given in regard to the lands disposed of by sale, the total area is brought up to 943,642, as against 706,218 in 1900, when the acreage of land granted in redemption of half-breed scrip was about 7,040 acres, showing an increase of 237,404 acres in favour of the last fiscal year. However, the fact that during the past five years a total area of 7,255,859 acres of land has been disposed of by the department and railway companies, either by sale or homestead entry, must be accepted as very conclusive evidence that the efforts that have been made by the department, through its representatives in the United States and abroad, to have the agricultural capabilities and natural resources of western Canada properly understood and recognized have been very successful. That a great stimulus has been given to settlement in Manitoba and the Territories within the last five years, as a result of the vigorous immigration propaganda inaugurated in 1896-7, there can be no better proof than by signalling the fact that during the four years preceding 1896, the total area of land disposed of by the department and companies amounted to only 2,336,759 acres, or 3,651 farms of 160 acres each, whereas during the last five years an average of 9,069 quarter-sections has been disposed of yearly.

The following is a comparative statement of the homestead entries and sales which have been made at the several agencies of the department during the fiscal years ending June 30, 1900, and June 30, 1901, respectively:—

			Fiscal year Ju No. of entries.	
Homesteads	 7,426	1,188,160	8,162	1,305,920
Sales	 	50,799		91,539

The following statement shows the number of homestead entries reported in each year since 1874, and the number and proportion of those entries which have been cancelled for non-fulfilment of the conditions of entry.

	Ho	MESTEADS.		Pre-emptions.			
Departmental Year ended	Number of Entries.	Number cancelled.	Percent- age.	Number of Entries.	Number cancelled.	Percent-	
October 31, 1874 	$\begin{array}{c} 1,376\\ +499\\ +491\\ +45\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -753\\ -2,055\\ -3,753\\ -2,055\\ -3,753\\ -2,055\\ -3,753\\ -2,055\\ -3,753\\ -2,055\\ -3,753\\ -2,055\\ -$	$\begin{array}{c} 899\\ 306\\ 306\\ 158\\ 188\\ 188\\ 286\\ 198\\ 199\\ 199\\ 199\\ 199\\ 199\\ 199\\ 199$	$\begin{array}{c} 64\\ 641\\ 444\\ 547\\ 750\\ 234\\ 47\\ 311\\ 332\\ 24\\ 844\\ 338\\ 24\\ 838\\ 23\\ 94\\ 252\\ 20\\ 16\\ 5\end{array}$	643 381 553 1,729 1,729 1,729 1,649 5,654 4,120 2,762 2,762 2,762 3,711 3,046 3,055 3,711	613 230 136 559 557 557 501 501 501 501 501 501 501 1,060 1,060	95 58 59 59 49 48 58 45 44 47 68 8 78	

STATEMENT showing the number of Homestead Entries made during the fiscal years ended June 30, 1900 and 1901 respectively, by persons coming from the various States and Territories of the American Union.

States	NO. OF E	NTRIES,	States	NO. OF ENTR		
states.	1900,	1901.	otares.	1900,	1901.	
Valaum. Articona Sworth Carolina Colorado. Connecticut. Delaware Piorida. Florida. Florida. Florida. Columos Delaware Piorida. Columos Delaware Dela	$ \begin{array}{c} 1\\ 14\\ 3\\ 2\\ 414\\ 1\\ 14\\ 14\\ 31\\ 7\\ 1\\ 126\\ 58\\ 5\\ 5 \end{array} $	$\begin{array}{c}1\\9\\1\\9\\640\\3\\1\\25\\45\\7\\10\\191\\80\\5\\2\\1\\6\end{array}$	Minnesota Minnesota Minnuri, Steraka, See Hampshire, See Jarange See Jarange See Jarange See Jarange See Jarange Ohio Ohi	152 1 200 4 14 12 3 3 50 1 13 51 1	429 33 466 234 166 177 8 31 8 74 53 53 53 10	
Michigan	131	111	Total	1,462	2,191	

STATEMENT showing the number of Homestead Entries made during the first six months of the year 1001, by persons coming from the various States and Territories of the American Union.

States.	Number of Entries.	States.	Number of Entries,
Alakama Colorado Colorado Connectient Dakota Georgia Eduko Georgia Eduko Connectient Eduko	$1 \\ 5 \\ 4 \\ 1 \\ 13 \\ 2 \\ 1 \\ 16 \\ 27 \\ 3 \\ 102 \\ 41 \\ 2 \\ 2 \\ 1 \\ 2 \\ 65 \\ 65 \\ 65 \\ 65 \\ 8 \\ 102 \\ $	Minimosa Montana Nortana New Hanpehire	252 11 32 135 2 3 3 5 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

STATISTICAL STATEMENT re Homesteaders, comparing the reports of the Dominion Lands Agents for the fiscal year ended June 30, 1901, with those of the fiscal year ended June 30, 1900.

Nationalities.	NO. OF E	INTRIES. 3
Aationanties.	1900,	1901.
Canadians from Ontario Quebe. Nova Scotta Key Branavict Jeland Ferrisk Columbia Manitoba North-west Peritories	$ \begin{array}{r} 1,887 \\ 201 \\ 49 \\ 39 \\ 18 \\ 16 \\ 337 \\ 100 \end{array} $	1,606 176 74 37 22 16 292 128
Persons who had previous entry Canadians returned from the United States. United States	2,647 746 155 1,307	2,351 816 165 $2,026$
Newfoundland Paglabi. Irisb Fotol. Fo		3 659 99 182 38 22 2 4 4 46
Syrians. German: Vollandere Hollandere Lassisotte than Leinaders). Leibadere Leibadere Ressams toffer than Vennonites and Poles). Memonites. Poles	$217 \\ 1,033 \\ 3 \\ 12 \\ 48 \\ 87 \\ 83 \\ 74 \\ 2$	$2 \\ 255 \\ 1,056 \\ 2 \\ 10 \\ 140 \\ 93 \\ 105 \\ 83 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ $
	7,426	8,167

STATEMENT showing the number of Homestead Entries made during the first six months of the Year 1901, and the Nationality of the Homesteaders, as reported by the several Agencies of the Department.

Nationalities.	Number of Entries.	Nationalities.	Number of Entries
Canadians from Ontario Quelec: Nova Scota New Brunswick Prince Edward Island British Columbia. Manitoba North-west Territories		French Belgians Nuiss	18 8 1 2 41 1 130 494
Persons who had made previous entry Canadaans returned from the United States Yourfoundhined. English Irish. Soutch.	1.178	Swedo Norwegians Dames (other than leelanders) Icelanders Russians (other than Mermonites and Poles Mennonites, Poles,	

FREE HOMESTEAD ENTRIES.

An examination of the above statements will show that the number of entries granted during the past year, namely, 8,107, was 741 in excess of the previous year, and was the largest ever granted in the history of the department since its establishment. 1833. During the last five years there were 29,514 entries made, as compared with 18,3617 for the preceding five years, or an increase of 13,147.

During the four years preceding 1896, the average falling off in the number of entries from year to year was at the rate of 20 per cent, and during the five years following 1896, the increase in the number of entries granted for each year over the proceding one has been at the rate of 29 per cent, so that there is a difference of 49 per cent in favour of the latter period as compared with the preceding four years.

It will also be seen that there has been a substantial increase in the number of entries made by settlers coming from the United States, especially from Dakota, Illinois, Itowa, Kansas, Michigan, Montana, Nobraska, Utah, Washington Territory and Wisconsin. This increase has been gradual since 1898, when the number was but 608 : in 1889, 1,169; in 1900, 1,462, and in this year 2,191, or over 25 per cent of the entire number of entries made.

It is well known that of the large areas of land sold by the Canadian Pacific Railway and other companies, American settlers have been the chief purchasers, and it is quite reasonable to assume that a considerable proportion of these settlers have located on purchased lands, without taking up lands on homestead conditions.

STATEMENT showing the number of Letters Patent issued by the Department in each year since 1874, and the number of those issued which have since been cancelled in each year.

Period.	Number Issued,	Number Cancelled.
Year ended October 31, 1874.	536	6
31, 1875	492	4
31, 1876	375	4
31, 1877.	2.156	13
31, 1878.	2,597	32
31, 1879	2,194	57
31, 1880	1.704	41
31, 1881	1.768	11
31, 1882.	2,766	11
31, 1883.	3,591	16
31, 1884	3,837	24
	3.257	18
31, 1886.	4.570	17
31, 1887	4,599	26
31, 1888.	3,275	34
31, 1889.	3,282	30
31, 1890.	3,273	20
. 31, 1891	2,449	35
31, 1892	2,955	27
31, 1893.	2,936	16
	2,553	15
Year ended December 31, 1894.	2,682	16
31, 1895.	2,118	12
. 31, 1896	2,665	20
. 31, 1897.	2,972	17
31, 1898	3,037	19
. 31, 1899	3,904	11
6 months ended June 30, 1900	1,970	14
Year ended June 30, 1901	6,461	17

PATENTS.

The above statement shows a large increase in the number of letters patent that have been issued. This is of course due to the increased number of settlers who obtained entries within the past few years, and who have since earned title to their homesteads; but the increase is largely made up by the issue of patents to different railway companies, that had long since become entitled to their land grants through the completion of their lines. It was felt that it would be far more satisfactory to close out these land grants by the issue of patents, and it is the intention of the department to continue to pass title as quickly as possible to the companies for such lands as they may have earned under their respective charters.

CORRESPONDENCE.

The following statement shows the number of letters received and sent by the department in each year since its establishment :--

	Departmental Year ended October 31.	Letters Received.	Letters Sent.	Total
1874 1875 1875 1876 1876 1878 1878 1878 1878 1878 1878 1889 1880 1885 1886 1880 1890 1800		$\begin{array}{c} 3,482\\ 1,575\\ 2,576\\ 2,576\\ 3,157\\ 4,157\\ 4,157\\ 1,266\\ 5,252\\ 2,169\\ 2,27\\ 1,69\\ 2,27\\ 1,69\\ 2,27\\ 1,69\\ 2,27\\ 1,69\\ 2,1$	$\begin{array}{c} 4,150\\ 2,189\\ 3,097\\ 6,000\\ 6,179\\ 9,940\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 33,300\\ 43,997\\ 60,890\\ 50,299\\ 60,500\\ 33,267\\ 44,230\\ 61,147\\ 85,289\\ 61,147\\ 81,87\\ 61,147\\ 81,87\\ 133,177\\ 136,348\\ \end{array}$	$\begin{array}{c} 7,632\\ 4,103\\ 5,8141\\ 10,651\\ 11,752\\ 29,430\\ 90\\ 60,997\\ 128,997\\ 1$

The number of registered letters during the departmental year 1901 was :----Received, 5,007 ; sent, 12,563.

Consequent upon the extension of the work of the department, there has been a large increase again this year, as shown by the above statement, in the general correspondence. It is fortunate that ample accommodation has been provided for the records, as this has contributed largely to the expeditious transaction of the business, and at the same time insured the safekeeping of the records.



The reports and returns in connection with the immigration service will be found under Part II.

The general result of the work for the year has been very satisfactory. Three has been a substantial increase in the number of arrivals, and according to the reports of the agents of the department at the ports of landing and in the west, the class of settlers who have come to Canada with a view to settling on the vaennt lands is a very desirable one. Although only a comparatively small propertion of the large influx of European emigration to America is directed toward Canada each year, there is no should that, be

25 D

a result of the careful selection exercised by the officers of the department, Canada receives more than a fair proportion of the European agriculturists who arrive in America with sufficient means and experience at their disposal to locate on vacant Dominion or Crown lands and become self-sustaining.

Considering the immense areas of arable lands still remaining vacant throughout the Dominion, there is no doubt that it would be in the interest of the Dominion that its population should be increased so as to permit of the development of the immense agricultural resources now lying dormant. "There is one important fact, however, which should not be lost sight of, and that is that the western provinces of Canada cannot count upon the same numerous accessions to their population of experienced agriculturist from the British Isles as did the more fortunate eastern provinces, and in view of this the department is taking the greatest care in encouraging only settlers who have followed agriculture in continental countries to emigrate to Canada, in order that only such desirable classes may be secured as may assimilate themselves with Canadians and adopt the conditions of the country. While it is proposed to prosecute the same vigorous immigration policy during the past few years, special attention and care, as in the past, will continue to be given to the proper selection of settlers who may be induced to locate in Manitoba and the North-west Territories.

As to the settlement of Manitoba and the North-west Territories only by the sons of Canadian farmers, or by British settlers, I need scarcely point out the utter impracticability of such a scheme. It should be considered that the total area of Manitoba and the North-west Territorics, including Athabasca, is about 384,000,000 acres, of which about 71,000,000 acres have been disposed of as homesteads and by transfer to colonization societies and the railway companies, leaving a balance of about 311,000,000 acres. After deducting 50,000,000 acres of land which may be covered with water or otherwise unsuited for agriculture, there would still remain two hundred and sixty million acres. Last year was possibly the largest, with regard to sales of land and in homestead entries, and less than two million of acres were disposed of. If the settlement continues at this rate, it will be seen that one hundred years from now will not see the North-west country settled and the lands being developed to their fullest capacity. and even at the same rate of increase the population would not exceed 5,000,000 of people at that time. It will, therefore, be seen that when the extent of territory is taken into account, and also the proportion of the country that is being settled year by year, there need be little fear but that there will be plenty of land left for a number of generations of Canadians and British immigrants. The fact is that in a very few years to come the various nationalities, Mennonites, Icelanders, Galicians, Doukhobors, Scandinavians and Germans, will undoubtedly be lost in the great Canadian nationality, and, under the circumstances, every possible encouragement should be given to the agriculturists of any country of Europe who have proved themselves to be industrious, and who are willing to move to Canada for the purpose of assisting in its general development.

The following table shows the total annual immigration from 1897 to 1901, inclusive, classified according to the various countries from which the same was derived :

-	1897.	1898,	1899.	1900,	Total for Calendar Years 1897 to 1900, inclusive.	1901 (fiscal).
English and Webh. South	9,393 1,239 751 3,917 636 540 718 740 740 712 1,370	545	$\substack{8,587\\1,337\\699\\6,806\\787\\276\\131\\816\\7,350\\413\\1,536\\11,945\\4,123}$		$\begin{array}{c} 35,639\\ 5,387\\ 2,948\\ 21,326\\ 2,654\\ 866\\ 1,389\\ 5,638\\ 7,359\\ 2,184\\ 3,663\\ 37,276\\ 15,027\end{array}$	$\begin{array}{r} 9,401\\ 1,476\\ 933\\ 4,702\\ 984\\ 546\\ 228\\ 1,750\\ 492\\ 1,726\\ 17,987\\ 8,924\end{array}$
Total	20,016	30,742	44,506	$44,69_{4}^{n}$	141,261	49,149

From this it will be seen that 41 per cent of the entire immigration for the last five years came from the continent of Europe, and 29 per cent from the British Isles and the United States of America. The table further shows that while there has been a substantial increase in the immigration from the continent of Europe, that from England, Wales, Scothad and Ireland has remained about the same, whereas the current of immigration from the United States has assumed such proportions as to show an increase over that from the British Isles during the period under consideration.

The approximate expenditure during the past fiscal year chargeable against immigration from the countries above mentioned, not including the expenses connected with the reception and location of immigrants, was as follows :--

Continent of Europe	\$ 43,647 12
Great Britain and Ireland	113,198 65

Continental \$	32	65
British	9	58
United States	7	96
Average per capita	6	11

The total average per capita cost, including expenditure in caring for and looking after settlers in Canada, was \$3.34.

BRITISH AND CONTINENTAL IMMIGRATION.

The reports of the High Commissioner for Canada in London, and of Mr. W. T. R. Preston, Inspector of Agencies in Europe, will, I am sure, be read with interest, as they contain much valuable information upon the work which is being conducted under them.

The figures with regard to British immigration show a very satisfactory advance over the previous years.

It is satisfactory to note that there is not much probability, as pointed out by the High Commissioner, of any active measures being taken by the home government with a view to assisting persons to settle in South Africa. The following statement appears in the report of the commissioner who was appointed by the Imperial government some time ago to make a study of the scheme :-- ' We have already stated that, in our opinion, it is desirable that such a settlement should be encouraged, and after having given very careful consideration to the matter, we are also of the opinion that, under proper conditions, it is also possible. At the same time we cannot close our eves to the fact that soldiers, under any scheme of settlement, would have great difficulties to contend with. and that the conditions under which agriculture and stock-raising are conducted in South Africa are very peculiar. The seasons are uncertain, the recurrence of drought often causes serious disasters, and the injury inflicted by locusts and by the various pests and diseases which, in South Africa, afflict almost every living thing in the animal and vegetable world, make the occupation of farming an exceedingly precarious one. Even those who have been longest in the country often find themselves unable to escape ruin, owing to one or other of the above causes.'

Under the circumstances, no matter what encouragement may be given by the Imperial government to ensure the settlement of these lands, Canada need not fear the competition which may thus be started in favour of South Africa, as the great natural advantages attached to our Dominion lands would more than compensate for any monetary assistance which might be granted to settlers to locate on less desirable ones.

The subject of school books, referred to by Mr. Preston, is certainly one of great importance, and advantage will be taken of the readiness of publishers to make such change or additions in the same as will impart a correct knowledge of the resources and elimatic conditions of the Dominion.

Mr. Preston's remarks respecting continental emigration would indicate on the whole that owing, on the one hand, to the unfavourable attitude of some of the continental governments towards Canada, and on the other to difficulties in respect to ocean ransportation and heavy rates charged from European ports to Canada, if follows that: 'None but a desirable class, those who by thrift and industry have accoundiated and sufficient means to settle in a new country, can possibly take advantage of the concurrantics offered by Canada to become settlers in the Donition.'

This state of things is not unsatisfactory, as the proportion of our total immigration coming from Europe is continuing to grow.

The reports which have been received from time to time from the officials of the department having charge of the location of settlers, and also from the General Colo nization Agent, Mr. C. W. Spocrs, who visits all the colonies in the vest two or three times in the year, show conclusively that the Galician and other European immigrant are making very satisfactory progress, and that in the majority of cases they have been

¥

×

able to make a satifactory commencement on their lands. It is pleasing to record that they are nearly all good farmers and have adapted themselves readily to the necessities of successful agricultural pursuits in their adopted country. Most of them appear to be only too anxious to acquire a thorough knowledge of the English language, and favour the establishment of schools for that purpose. Contrary to the general opinion here, most of the European settlers have come from countries where the most thorough systems of education are enforced, and consequently their early training makes them only too willing to acquire an education which will place them on an equal footing with their neighbours.

Regarding the Doukhobers, it is almost unnecessary to say that they are now very well able to take care of themselves, and from my personal observation of these people, when I visited a number of their settlements during the year, there would appear to be no doubt as to their being likely to achieve as great success as did the Mennonite colonists who settled in Manitoba in 1875.

IMMIGRATION FROM THE UNITED STATES.

The results obtained in the United States, as shown by the statements submitted above, are highly satisfactory, and great credit is certainly due for this to the able staff of resident and travelling agents operating in that country.

The class of settlers who are crossing the boundary to locate in Canada are of the best type of practical agriculturists that could be secured in any country, and as this movement, which has since a few years taken such large proportions is likely to still further increase during the coming years, it is a source of great satisfaction that the methods employed by the department to have these results brought about have proved as successful.

Over 55,000 United States settlers with their families settled in the North-west during the past five years, and the accuracy of these figures is fully borne out by the large percentage, as shown by the returns, of the persons from that country who have entered for free homesteads during that period.

It is also highly satisfactory to know that the United States settler, who crosses the boundary to permanently settle on Canadian soil, soon becomes a fervent admirer of Canadian institutions and fully appreciates the advantages that the same offer.

THE BUFFALO PAN-AMERICAN EXHIBITION.

It being folt that a North-west Territories exhibit at the Pan-American exhibition would be the means of advertising the territories as a desirable field for attemment and of opening new and better markets for the surplus product, a grant of \$5,000 was made by the Dominion government to the Territorial government to assist the latter in having a suitable exhibit prepared.

Mr. Molyneux St. John, of Ottawa, was appointed as the representative of the department at the exhibition, and with the co-operation of our United States agents, did

excellent work in the way of distributing attractive immigration literature, and otherwise interesting visitors as to the excellence of Canadian products.

The North-west exhibit attracted considerable attention, and the display of the collection of grains and of economic minerals elicited the most favourable comments.

Nothing better could have been devised to advertise the vast resources of the territories, and much good is expected therefrom in view of the movement of immigration which is now being directed towards Canada from the United States.

TIMBER, MINERAL AND GRAZING LANDS.

The report of the chief clerk of this branch of the department will be found under No. 19 of the Dominion lands division of the report.

In view of the extensive developments which have taken place within the last few years in the mining fields of the Yukon Territory, and the increased local demand for building material consequent upon the opening up of new settlements throughout Manitoba and the North-west Territories, the work of this branch of the department has grown largely in importance, and the results obtained during the year, as contained in the various statements submitted, will no doubt prove interesting.

The total revenue on account of timber, mineral and grazing lands during the past fiscal year, exclusive of the sales of mineral lands, amounted to \$1,341,293.08, the largest receipts ever recorded from these sources, being an increase of \$43,156.95 over the unprecedented revenue of the year 1898-9, and of \$512,862.07 over the year 1897-8.

TIMBER.

The total revenue on account of timber dues amounted to \$209,390.32, or an increase of \$83,053.50 over the previous year. Three hundred and seventy-one licenses to cut timber over a total area of 4,479 20 square miles were issued, as compared with 306 licenses, and an area of 3,610 37 square miles during the year 1890-1800.

The total revenue received from timber in Manitoba, the North-west Territories, British Columbia and the Yukon Territory, up to July 1, 1901, was \$2,060,985.94. The total revenue from timber within the railway belt in British Columbia up to the same date was \$415,521.36, and in Manitoba and the North-west Territories, \$1,434,105.97.

The output of manufactured timber in Manitoba during the past season was 23, 532,500 feet B.M., as compared with 23,692,680 during the previous year, or a decremes of 160,380 feet B.M. It is estimated, however, that the total quantities of lumber disposed of in Manitoba during the year amounted to 150,532,300 feet B.M.

Although about one-sixth of the above quantity was imported, in the log, from the United States, it may be observed, as noted by the Crown Timber agent at Winnipeg when dealing with this subject, that as regards manufactured lumber our importation from the States is decreasing year by year, it having fallen off to 11,000,000 feet this year from 24,000,000 during the year ending June 30, 1000. The same remark applies

to shingles, there having been but 2,340,000 imported during the year 1900-1 as compared with 10,235,000 during the previous year.

The output of manufactured lumber in the North-west Territories was 16,129,189 feet B.M., showing an increase of 2,615,902 over the preceding year; in the railway left in British Columbia the output was 32,377,216, or an increase of over 3,000,000 as compared with the year 1830-1900, and for the Yukon Territory it was 6,333,017 feet B.M. The total output of manufactured lumber by mills operating under licenses of the department was 75,772,023 feet B.M. as compared with 60,854,070 for the preceding year.

The number of timber berths licensed, or authorized to be licensed, in Manitoba and the Territories is 200, and on Dominion lands in the province of British Columbia, 177. Ninety-seven berths have been granted in the Yukon Territory, covering a total area of 225-11 square miles.

A list of the timber berths, giving names of licensees, appears in the report of the chief clerk of the Timber and Mines branch.

The following are the principal changes that have been made in the regulations since my last report:---

I already referred in my report of last year to the Order in Council, duted 3rd September, 1900, amending the timber regulations for Manitoba, the North-west Yerritories and the railway belt in British Columbia, which provides for the reduction of dues on square timber and saw-logs cut under permit, with the exception of oak, to 81.50 per thousand fets B.M., the dues on oak remaining unchanged.

It was also provided by the same Order in Council that returns must now be made by the quantity of lumber manufactured from timber cut under permit in Manitoba, or the North-west Territories, instead of computing the quantity in the log by 'Scribner'log rule'

By Order in Council of January 3, 1901, provision was made by which dues on shingles manufactured from timber cut in the railway belt in Britials Columbia shall in future be paid at the rate of 50 cents per cord on the bolts instead of 20 cents per thousand. This was considered advisable, as although 20 cents per thousand might be deemed a fair price in Manitoba and the North-west Territories, it was felt that it was too high for shingles manufactured in British Columbia, where the marketable price for such article is much less than in Manitoba and the Territories.

By Order in Council of April 9, 1901, the regulations were also amended by providing that all licenses and permits issued on and after May 1, 1901, shall contain a clause to the effect that one-half the cost of fire guarding the timber on Dominion lands shall be defrayed by the holders of the berths, the Crown defraying the other half. This provision was deemed advisable in view of the expenditure which is use being incurred by the government to protect timber lands from destruction by fire, and as persons or companies engaged in lumber industries are personally interested in the preservation of the timber areas under license to them. It was felt that they should fairly be called upon to contribute their share in the cost of fire guarding timber limits under the control of the Dominion government.

By an Order in Council, dated July 30, 1901, provision was made that all timber cut under license in the railway belt in the province of British Columbia should be manufactured within the limits of the Dominion. This provision was made in order to prevent the exportation of saw-logs.

The regulations provided for a rebate of forty cents per thousand feet B.M. to be allowed on lumber exported from British Columbia to places outside the Dominion of Canada, but by an Order in Council, dated September 24 last, this rebate was cancelled. This action was taken owing to representations made to the department that the lumber interests of Dritish Columbia were established on a firm basis, and that the conditions under which licensees conducted their business are more favourable than these across the international boundary line.

TIMBER IN THE YUKON TERRITORY.

The regulations covering the issue of licenses to eut timber on Dominion lands in the Yukon Territory, provided that a licensee should creet a saw-mill within a certain period to be fixed by the Minister of the Interior, but by Order in Council, dated March 16, 1901, provision was made that a licensee should have in operation within one year from the date that he is notified by the proper officer of the Department of the Interior that the Minister of the Interior regards such a step necessary or expedient in the public interest, and to have in operation for at least six months of each year of his holding, a saw-mill in connection with the berth described in his license.

With a view to prevent a large area of timbered lands in the Yukon Territory from being acquired for speculative purposes, provision was made in the regulations that not more than five berths of five square miles each should be granted to any one person or company. By an Order in Council, dated May 31 last, provision was made that when an applicant who had already acquired five berths could show to the satisfaction of the Commissioner of the Yukon Territory that he actually required additional timber for manufacturing purposes at the mill or mills which he had created, the provision restricting the granting of more than five berths to one applicant might be waved.

GRAZING AND STOCK-RAISING.

During the past year the department issued 241 leases for grazing lands. The total number of ranches comprising Dominion lands at present cover an area of 605, 794-75 acres.

The total number of leases of school lands in the province of Manitoba for grazing purposes in force on August 22, 1901, was 45, containing an area of 11,263-88 acres, and in the North-west Territories on August 26, 1901, 227 leases, containing an area of 77,127-98 acres.

HAY.

There were 5,171 permits to cut hay issued during the past year, and the sum of \$17,500.75 was collected for dues, as compared with 4,411 permits and \$17,838.85 for the previous year.

By an Order in Council, dated January 3, 1901, provision was made that in case payment of the rental of a grazing lease is not made within ninety days from the date upon which it becomes due, the Minister of the Interior may require the lesser to pay an additional sum equal to fifteen per cent of the amount of the rental due.

By an Order in Council, dated 5th of the same month, regulations for the administration of grazing and hay lands in the Yukon Territory were established. These regulations provided for the issue of grazing leases for a term not exceeding the years at a rental of \$100 per square mile; for the issue of hay leases for a like period at an annual rental of fifty cents an are, and for the issue of permits to cut hay at the rate of \$29 per ton, and an office for 6×52.0 .

MINERALS OTHER THAN COAL.

There were but 46 entries granted for quartz locations by the agents of Dominion lands in Manitoba and the North-west Territories, as compared with 138 entries during the previous year; and 1,156 entries for similar locations were granted in the Yukon Territory, as compared with 918 for 1899-1900. This would seem to indicate that quartz prospecting was again last year actively prosecuted in the Yukon Territory, and it is to be hoped that the same may lead at an early date to some practical result.

It is gratifying to note that there has been a substantial increase in the number of placer claim entries granted. The returns for the past fiscal year show that 4,424 of this class of claims were granted, as compared with 1,540 during the previous year; 6,291 renewals and relocations as compared with 4,850 in 15190-1900, and 5,569 assignments as compared with 6,215 for the previous year.

From these figures it will be seen that there has been an increase in new discoveries, in so far as the staking of new elaims would indicate, and a corresponding increase in the amount of work performed. The revenue collected from placer and quartz entries, renewals and relocations, and for registration of assignments and other documents in connection with mining operations, amounted to \$34,8,058,30, or an increase of \$349,271.60 over the previous years which is a most satisfactory showing.

In the Yukon Territory 24.524 phaser claims, 2,793 quartz claims, 16,573 renewals and relocations, and 25,520 assignments of claims were recorded up to July 1, 1901. Up to July 1, 1901, 59,449 free miners' certificates were issued, producing a revenue of \$806,108.82. During the present issal year 12,511 miners' certificates were issued, and the revenue derived therefrom was \$125,661.

The total sum collected up to July 1, 1901, for royalty on the gross output of placer climins in the Yukan Territory, after deducting the exemption allowed by the regulations, was \$2,122,645.41; of this amount the sum of \$506,088.03 was collected during the past fiscal year. A statement showing the royalty received, the places where the royalty was collected, and the names of the erecks, gulches and hilfs on which the claims from which the gold was taken are located, appears in the report of the chief clerk of the Timber and Mines branch.

Leases now in force to dredge for minerals in the submorged beds of rivers in the Yukon Territory cover 270 miles, and for the same purpose in the North-west Territories 911-75 miles.

The total revenue received for rent of the leaseholds in the Yukon Territory up to July 1, 1901, was \$139,635.50, and for the last fiscal year, \$2,650.

The total revenue for rent of the leaseholds in the North-west Territories to July 1, 1901, was \$20,262.71, and for the past fiscal year, \$3,000.

By an Order in Council, dated the 18th of the same month, the regulations for the mining in the Yukon Territory were rescinded and new regulations substituted therefor. The new regulations provided for the payment of royalty on the gold mined from a claim in excess of \$5,000 per annum at the rate of five per cent instead of ten per cent as heretofore, and provision was also made that it would be necessary for any one exporting gold out of the territory to produce to the officers of the government at the boundary a certificate from the Gold Commissioner that the royalty thereon had been paid, otherwise the gold would be confiscented for the use of the Crown.

By an Order in Council, dated the 18th of the same month, the regulations for the hearing and decision of disputes in relation to mining property in the territory were cancelled, and new regulations covering the establishment of an appeal court at Dawson were substituted therefor.

QUARTZ MINING.

Section 84 of the regulations for the disposal of quartz mining claims on Dominion lands in Manitoba, the North-west Territories, and the Yukon Territory provides that nothing contained therein shall be construed to limit the right of the Lieutenant Governor of the North-west Territories in Council, or of the proper authorities in any province containing Dominion lands, to lay out public roads through any mining property without compensation. By an Order in Council, dated January 3 last, provision was made that the above right should also apply to the proper authorities of any territory containing Dominion lands.

By an Order in Council dated the 21st of the same month provision was made that when the survey of a mining claim has been made within one year from the date upon which it was recorded, and such survey has been duly approved by the proper officer of the Crown, the cost of the survey—not exceeding \$100—may be allowed to be counted as work done on the claim for that year.

By Order in Council dated February 6 last, the price of quartz mining locations was reduced to 81 an acro, and provision was made that all Crown patents issued for quartz mining claims situated in the Yukon Territory shall be made subject to the town site provisions of the regulations governing the administration of Dominion lands in that territory other than coal lands.

By Order in Council dated the 20th of the same month, provision was made that the royalty to be reserved in a patent issued for a quartz mining location shall not excoel 5 per cent on the sales; and that the legal action to be instituted by any person claiming an adverse right to a mineral claim must be in accordance with the regulations governing the hearing and decision of disputes.

By an Order in Council dated January 3 last, exception was made of house servants in connection with those persons in the employment of a person or company holding mining property who are required to take out free miner's certificates.

DREDGING IN THE YUKON TERRITORY.

The regulations governing the issue of leases to dredge for minorals in the beds of rivers in the Yukon Territory provided that the lessee should have at least one dredge in operation upon each five miles of river leased to him within two seasons from the date of his lease, but, by an Order in Council dated August 9, 1900, provision was made that the lessee should have, within two years from the date of his lease, at least one dredge in operation upon the portion of the river leased to him, not exceeding thirty miles, and should, within six years from the date of such lease, at least in operation upon each five miles of river under lease to him; and by an Order in Council dated January 5 last, provision was made that the lessee shall pay for the first year a rental of \$100 for each mile shall be charged.

DREDGING IN MANITOBA AND THE NORTH-WEST TERRITORIES.

The regulations governing the issue of leases to dredge for minerals in the submerged beds of rivers in Manitoba and the North-west Territories, except the Yukon Territory, provided that the lesses" right to mining and dredging should be confined to the submerged bed robars of a river below low water mark. By an Order in Council dated September 4, 1900, provision was made that the holder of more than one dredging lease on the Saskatebewan river should also have a right to dredge, during the period of his leases, between high and low water mark on both sides of the river within each alterate five miles of his leaseholds, such privilege to be subject to the rights of persons who acquired mining privileges prior to that date.

PETROLEUM.

The petroleum regulations provided for the reservation for an applicant for a period of six months of an area not exceeding 640 areas of land for prospecting purposes, and, if oil were found in paying quantity, for the sale of the land to an applicant at the rate of \$1 per acre, subject to a royalty of two and one-half per cent upon the sales.

By an Order in Council dated May 31 last, however, provision was made that on and after the first day of July last, all unappropriated Dominon lands in Manitoba, the North-west Territories, and within the Yukon Territory, should be open to prespecting for petroleum by any individual or company desiring to do so, and that should oil in paying quantities be discovered, an area not exceeding 640 acres of land, including and surrounding the discovery, would be sold to the discoverer, at the above rate of \$1 an aere, provided the lands were available, subject to ryalty at such rate as might from time to time be specified by Order in Council.

HYDRAULIC MINING.

By an Order in Council dated January 5 last, provision was made that a lease which may be issued for an hydraulic mining location in the Yukon Territory shall be subject to the right of the Crown to withdraw from the operation of the lease at any time during its currency portions of the location for agricultural or building purposes, which at the time of such withdrawal are not being operated by the lesse.

COAL MINING LAND.

The revenue for the year derived from the sale of coal lands was \$101,772, as compared with \$5,650.33 for the previous year, and the number of applications received was \$60, as compared with 4.9, which shows that there has been considerable interest taken lately in this industry. The total area of coal lands sold up to July, 1901, was 40,002 acress, and the total amount received therefor was \$260,543.

By an Order in Council, dated February 6, 1001, provision was made that payment for coal lands in Manitoba, the North-west Territories and in British Columbia, might be made in cash or scrip when an application is granted, or payment might be made of one-quarter of the purchase price only and the balance in three equal annual instalments with interest at the rate of five per cent per annum upon the unpaid balances, but that scrip could not be accepted unless payment was made in full at the time of the sale. Provision was also made for the payment of royalty at such rate as might from time to time be specified by Order in Council; and by an Order in Council, dated May 31 last, provision was made that the above royalty should be at the rate of ten cents per ton of 2,000 pounds.

By an Order in Council, dated January 21 last, the regulations governing the administration of Dominion lands in the Yukon Territory containing coal were rescinded, and new regulations substituted therefor. The amended regulations provided that the Commissioner of the Yukon Territory might sell not more than 220 acres of land to one individual or company at the rate of 820 an acre if the coal were anthracits, and 8410 for any other class of coal; that payment should be made in cash or scrip at the time of the sale, or in four equal annual instalments, and that a royallt at such a rate per ton as might from time to time be specified by the Governor in Council would be levied and collected on the gross output of the mine. The person purchasing such lands is required to develop the same within two years from the date of the application and to have a survey thereof made at his own cost. The lands are to be sold subject to the reservation of all minerals other than coal, and also subject to town site conditions.

The Crown timber agent at Winnipeg has furnished the following statement of the consumption of coal and wood at points in Manitoba and as far west as Regina, which can be taken as approximately correct—

	1 0119.
American anthracite	37,500
American bituminous	4,200
Canadian anthracite	6,500
Canadian bituminous (Galt)	10,000
Canadian lignite (Souris)	43,000

101,200

Per cord f.o.b. at Winnipeg.

Canadian cord-woo	d (Winnipeg or	dy)		125,000 cords.
-------------------	----------------	-----	--	----------------

Prices of Coal f.o.b. at Winnipeg.

	Per	ton.
American anthracite	\$9	50
American bituminous	-7	00
Canadian anthracite	9	00
Canadian bituminous	-7	50
Canadian lignite (at Winnipeg)	3	75
Canadian lignite (at Melita)	2	60
Canadian lignite (at Brandon)	3	20
Canadian lignite (at Regina)	3	30

Canadian	poplar.												Ę	\$2	40	to	\$2	60	
Canadian	tamara	k.												3	25	to	4	00	
Canadian	spruce.													2	60	to	3	00	
Canadian	jack pir	1e						• •						3	00	to	3	50	
American	oak													3	75	to	4	25	
American	maple.													5	00	to	5	50	

The quantity of American fire-wood imported is very small and almost inappreciable.

IRRIGATION AND IRRIGATION SURVEYS.

Owing to the unusually heavy rainfall which southern Alberta and western Alberta, in common with the other portions of the Territories, experienced during the early part of the past season, irrigation was not resorted to in many districts where erops during dry years cannot be successfully raised without the artificial application + f water.

The faith of the residents of the semi-arid portion of the Territories in the privciple of irrigation, and the knowledge that the cycle of dry seasons is again about due, has influenced many smaller owners to proceed with the construction of irrigation ditches, fourteen applications for water rights for these smaller ditches having been recorded during the year.

The present standing of irrigation canal and ditch construction in the Territories may be summarized as follows:---

Number of canals and ditches constructed	169
Length of constructed canals and ditches	469 miles.
Number of water rights recorded for canals and ditches not	
yet completed	14
Number of acres susceptible of irrigation from constructed	
canals and ditches	614,684 acres.
Number of water rights recorded for domestic, power and	
other purposes	127

Reference has been made in previous annual reports to the water rights which have been, and are being, from time to time set aside under the provisions of the North-west Irrigation Act in the eastern portion of the Territories in connection with the storage of water in reservoirs for stock-watering and domestic purposes. During wet seasons the necessity for the storage of water in this manner is of course not so pressing, but the reservoirs created by the Territorial government and the recording of water rights therefor are doing much to solve the problem of a surface water supply, particularly in Eastern Assinibioi during dry years. The dams created to create these reservoirs now number some three hundred, and several of these dams are large structures impounding extensive bodies of water.

In the Lethbridge district of Southern Alberta the settlement and development which commenced with the completion last year of the Canadian North-west Irrigation Company's canal have progressed rapidly, and the transformation which has taken place in that district within the past year has to be seen to be adequately realized. Two populous and thriving villages (Stirling and Magrath) are now situated on the line of the canal where three years ago only scattered hords of range cattle could be seen, and a thrivinling (Raymond) has been located and is now springing up at the point where an extensive plant for a sugar-best factory has been located. These astonishing results are almost directly attributable to the construction of the irrigation canal, because, although it was not found necessary during last season, owing to a rainfall much in excess of the average, to resort to irrigation to any great extent to produce bountiful cross, the fact that such cross can be produced with sufficient moisture has been proved, and the canal affords a certainty of ample water supply during dry seasons.

In the early months of the year the Canadian Pacific Railway Company decided to fully investigate the proposed Bow irrigation canal scheme, which has been referred to in past annual reports and fully dealt with in the Fourth General Report on Irrigation and Irrigation Surveys. This canal, which is designed to head in the Bow river near Calgary and supply water from that tream for the irrigation of a large area of land lying east of that point and between the Bow and Red Deer rivers, was located in connection with our general irrigation surveys in 1895 and 1896, and the feasibility of the scheme from general standpoints satisfactorily proved. The Canadian Pacific Railway Company employed Mr. George G. Anderson, irrigation engineer, of Deaver, Colorado, who had charge of the construction of the Canadian Northewst irrigation

canal, to thoroughly examine into and report regarding the proposed scheme, and although his report has not, of course, been made public, it is understood that be has confirmed the favourable reports made at the time of the original location of this canal, and concurs in the claim made in our General Irrigation Reports that this canal not only does not present any scrious engineering problems, but is calculated to work a wonderful transformation in the country lying along the main line of the Canadian Pacific Railway east of Calgary.

The construction of the Springbank irrigation canal, to which reference was made in the last annual roport of the department, was continued during the past season. The work was, however, seriously delayed by bad weather and has not yet been completed. The headworks and main portion of the canal are, however, now about finished, and it is expected that the remaining portion of the canal will be finished in time to supply water for irrigation, if needed, next season.

Among the smaller irrigation undertakings which have been recorded during the past year, several are designed to irrigate considerable areas, but are all being constructed as private or mutual undertakings for the irrigation of lands belonging to the applicants for the water right.

During the past season one division of the irrigation survey staff has been engaged in completing certain surveys in the Springbank district, west of Calgary, and in superintending the engineering work in connection with the construction of the Springbank canal. The second division of the staff has completed certain surveys and investigation in the Milk River district of Southern Alberta, and in connection therewith has located a canal which will divert water from Milk river for the irrigation of hand lying north of that stream and east of the tract of country irrigated by the Canadian North-west Irrigation Company's canal. The location of the Milk River canal proces that a large area of valuable land can be supplied with water from that stream, should it be found feasible to divert water from the hater stream.

The hydrographic work of the irrigation surveys has been kept up during the past season, and the information obtained from gauge-root readings and the automatic record supplied by nilometers and hydrographs on the larger streams will be of the greatest value in finally determining the volume of water available from streams in the southern and south-western portion of the Territories for irrigation purposes.

The Fifth General Report on Irrigation and Irrigation Surveys, which brings all information down to date, is not yet ready for the printers, its preparation having been delayed pending the completion of some of the more important mays to accompany it. This report will, however, it is expected, be ready for issue in the early part of the year in monograph form, and will no doubt prove of grent value is usplying full and detailed information regarding a subject that is rapidly becoming one of the most important with which we have to deal in the Territories.

OPERATIONS OF THE TOPOGRAPHICAL SURVEYS BRANCH.

During the half year extending from July 1 to December 31, 1900, there were thirty survey parties in the field. Seven of these were in Manitoba, seventeen in the Terri-

tories, two in British Columbia, two on that part of the sixtieth parallel of north latitude which forms the boundary between British Columbia and the Yukon Territory, one in the districts of Keewatin and Mackenzie, and one party in the Yukon Territory.

Besides these there were several parties engaged in the Yukon Territory under the direction of the commissioner.

Nine parties were engaged on contract subdivision surveys, this being a greater number than for some years past.

This season there are also thirty parties in the field, of whom five are working in Manitoba, twenty-two in the Territories, and three in British Columbia. Twelve of the parties are engaged in subdivision work under contract. A party organized by Mr. L. E. Fontaine early in May, for work in northern Alberta, near Onion lake, was shortly afterwards disbanded, Mr. Fontaine having met with an accident which prevented his remaining in the field.

SUBDIVISION SURVEYS.

Mr. Cyrus Carroll was employed during the last half of 1900 in the south-eastern portion of Manitoba, in the vicinity of the Manitoba and South-eastern Railway.

This season the work in this neighbourhood is being carried on by Mr. J. A. Coté.

Mr. R. Bourne has been engaged since September, 1900, in resurvey work, and the survey of outlines in central Manitoba.

Mr. C. F. Aylsworth was last year working in the vicinity of the Thunder Hill Doukhobor reserve, and in the Swan River district. This season he is engaged upon resurvey and subdivision work, about twenty-five miles east of Winnipeg.

Mr. H. B. Proudfoot is this season working under contract in central Manitoba, between the principal meridian and the south end of Lake Winnipeg.

Mr. A. F. Martin last season had a subdivision contract in the Beaver Hills in Assiniboia. This year he has been instructed to survey certain outlines in Manitoba, between Lakes Winnipeg and Manitoba, in connection with the examination of swamp lands, for the selection of which he is one of the commissioners. This survey was necessary in order to locate the lands to which the province of Manitoba is entitled under statute.

Mr. C. A. Bourget was last year working under contract. He subdivided several townships on the west shore of Lake Winnipegosis.

Mr. James Dickson was employed last season in the Swan River district. This year he is engaged in the survey of outlines east of Prince Albert.

Mr. J. C. Desmeules was working during 1900 in the Dauphin district. This year hc is subdividing several townships in the Edmonton district.

Mr. J. J. Dalton has been instructed to make a number of surveys in Assiniboia, near Yorkton and Pelly.

Mr. A. J. Brabazon was last season renewing the marks of corners in some townships near Yorkton.

Mr. A. Bourgeault was working under contract in 1900 in the country west of Prince Albert. He is again working under contract this year in Saskatchewan, north of Quill lakes.

Mr. P. R. A. Belanger was last season surveying township outlines west of the second meridian in the vicinity of Pasquia mountain. This year he is engaged in similar work cast of Prince Albert.

Mr. J. A. Belleau was employed during 1900 in the Thickwood Hills, and near Carlton. This season he is cast of Prince Albert.

Mr. C. C. DuBerger was last year employed in northern Alberta, near Edmonton. This year he is running township outlines near the ninth and tenth base lines west of the second meridian.

Mr. L. P. Gauvreau was last season awarded a contract in the Doukhobor reserve, near Carlton.

Mr. J. J McKenna has been working under contract during 1900 and 1901. Last year he was in the Cypress Hills, this year he is in central Alberta, near Red Deer.

Mr. E. J. Rainboth was working under contract last year in southern Alberta. This year he has again been awarded a subdivision contract in the same neighbourhood.

Mr. J. E. Woods was last year engaged on scattered surveys in southern Alberta and through the Crow Nest pass. This year the surveys in this district are being carried on by Mr. G. J. Lonergan.

Messrs. C. E. Towle and G. P. Roy have been awarded subdivision contracts in Alberta, near Red Deer.

Mr. W. F. O'Hara was last year engaged in the survey of township outlines in the Finlander's reserve, west of the fifth meridian. This year Mr. J. N. Wallace has been instructed to continue the work in this neighbourhood.

Mr. A. McFee was last year, and is again this season, working under contract west of the fifth meridian, near Red Decr.

Mr. John Molloy and Mr. Hugh McGrandle are both subdividing townships under contract in northern Alberta.

Mr. Louis Gosselin has been awarded a subdivision contract in the Beaver Hills, near Edmonton.

Mr. R. W. Lendrum was last year working under contract west of the fifth meridian, south of Pigeon lake. This season he has been awarded a subdivision contract in the Beaver hills, near Edmonton.

Mr. J. B. Saint Cyr is working under contract in northern Alberta.

25 E

Mr. J. K. McLean was last year engaged in subdivision work in the Edmonton district. This season he is surveying township outlines, north of Edmonton.

Mr. A. C. Talbot has been sent to Lesser Slave lake to make various surveys which have been asked for by the settlers in that neighbourhood.

Mr. C. C. Fairchild is surveying in the vicinity of the Peace river, near Dunvegan, in the district of Athabasca.

Mr. J. E. Ross and Mr. W. J. Deans have been working during 1900 and 1901 in the railway belt in British Columbia. Their work has been altogether to meet the immediate requirements of the settlers in that district.

SETTLEMENT SURVEYS COMPLETED TO DATE.

Hereunder will be found the usual table of subdivision or settlement survey work completed each year since the commencement of the surveys, with the result of last sesson's operations added :--

	Acres.	Number of Farms of 160 acres each.		Acres.	Number of Farms of 160 acres each.
Previous to June, 1873 In 1877 1876 1876 1877 1878 1878 1879 1878 1880 1880 1880 1880 1886 1886 1887 1886 1887 1888 1887 1888	$\begin{array}{c} 4,792,232\\ 4,237,864\\ 665,000\\ 420,507\\ 231,691\\ 306,936\\ 1,130,482\\ 4,472,000\\ 8,147,000\\ 8,147,000\\ 6,435,000\\ 6,435,000\\ 391,689\\ 1,379,010\\ 643,710\\ 1,131,840\\ \end{array}$	$\begin{array}{c} 29,952\\ 26,487\\ 4,156\\ 2,628\\ 1,448\\ 1,918\\ 7,066\\ 27,950\\ 50,919\\ 170,212\\ 170,212\\ 170,212\\ 40,218\\ 40,218\\ 40,218\\ 4,023\\ 4,023\\ 7,074 \end{array}$	In 1889 1890 1891 1892 1893 1893 1895 1895 1895 1897 1898 1898 1899 1900 1901 Total	$\begin{array}{c} 516,968\\ 817,075\\ 76,560\\ 1,395,290\\ 2,928,640\\ 300,240\\ 406,240\\ 506,560\\ 428,640\\ 1,022,720\\ 735,480\\ 1,022,720\\ 735,480\\ 1,003,680\\ 83,282,855\\ \end{array}$	$\begin{array}{c} 3,231\\ 5,106\\ 476\\ 8,720\\ 18,304\\ 2,539\\ 3,166\\ 2,679\\ 3,374\\ 6,332\\ 4,596\\ 10,023\\ \hline \end{array}$

TOPOGRAPHICAL SURVEYS.

Mr. A. O. Wheeler has been instructed to prepare a map of the country in the vicinity of the Selkirk mountains in British Columbia. He commenced the field work in connection with it about the end of June, of this year.

INTERPROVINCIAL BOUNDARIES.

Mr. Geo. White-Fraser and Mr. Arthur Saint (Zyr were engaged last season on the boundary between British Columbia and the Yukon Territory. This was a continuation of their previous season's work. Mr. White-Fraser established astronomical stations along the boundary at intervals of about twenty miles. He carried the line westward about as far as the Alsek river.

Mr. Saint Cyr connected these stations and established monuments along the line about one mile apart. He has completed the line between Bennett and Teslin lakes.

YUKON TERRITORY.

The system of survey adopted in the North-west Territories has not been extended to the Yukon Territory: the land instead of being subdivided into sections is surveyed into lots of convenient size.

Mr. C. C. Chataway was sent to Dawson in April of last year for the purpose of supervising these surveys. He was authorized to issue instructions to the Dominion land surveyors working in the territory, and to examine returns of surveys. Mr. C. W. MacPherson was last season working under his instructions.

In November, 1900, Mr. Chataway's office was made a permanent 'survey office,' and he is at present in charge of it as 'director of surveys.' He has a staff of three men in the office, and the surveyors in the field under his directions are Messrs. James Gibbon, P. T. C. Dumais, C. W. MacPherson and A. J. MacPherson.

EXPLORATORY SURVEYS.

Mr. Thomas Turnbull was last season engaged in making an exploratory survey of the country between Lakes Winnipeg, Manitoba and Winnipegosis.

Mr. J. W. Tyrrell left early in 1900 to make an exploratory survey in the districts of Keewatin and Mackeniz. He crossed the country between Great Slave lake and Chesterfield inlet on Hudson bay, and returned to Ottawa in December of last year. Mr. Tyrrell's report, which will be found at the end of Part III., is of great importance, as containing details of accurate information about a very large stretch of country previously almost unknown, and which is now shown to possess considerable value, in several directions, from a commercial point of view.

INTERNATIONAL BOUNDARY SURVEYS.

The report of the commissioners, Messrs, W. F. King and O. H. Tittmann, appointed under the provisions of the module vicendi entered into between Great Britain and the United States on October 20, 1809, upon their survey of the provisional boundary line between Alaska and British Columbia in the region about the head of Lynn enanl, was received in January last, and was, in due course, laid before parliament.

In my last annual report, reference was made to correspondence with the United States government with reference to the bad condition of many, and the total diasppearance of some of the monuments marking the southern boundary of Cauada. In addition to the repair and replacement of these, as to the necessity of which there was a concurrence of opinion, the setting of new monuments, in places where the marks of the original survey are too far apart to meet present requirements, was proposed, but not agreed to, as it was thought that the placing of new monuments, being an addition to the original survey, should properly be made the subject of a special convention, supplementary to the various conventions under which the several parts of 25 ms⁴

the boundary line were originally surveyed. An informal agreement was, however, come to with the government of the United States for the examination of the existing monuments on the 940 parallel from the Rocky Mountains to the sea, between British Columbia and the States to the south. This examination is being conducted by surveying parties of both governments, those of the United States Deing under the joint direction of the superintendent of the United States Coast and Goodetic Survey and the director of the United States Goological Survey, and those of Canada under the direction of Mr. W. F. King, chief astronomer of this department. The two Canadian surveying parties are under charge of Messrs. J. J. McArthur and W. F. O'Hara, Dominion land surveyors, the former working in the Caseade Mountains and west theorfrom, the latter between the Simillameen and the Columbia river.

In order to take advantage of this opportunity for forwarding the work of the Geological Survey in the little-known region of the Cascade Mountains, a small party, under Mr. J. M. Macoun, of that survey, as biologist, and Mr. R. A. Daly, as geologist, was detailed to accompany Mr. McArthur's party.

An agreement has also been reached for the joint examination and repair and replacement of broken or destroyed monuments on the boundary between the State of New York and the province of Quebee, that is to say, from the Richelieu river to the St. Lawrence.

The field astronomical work of the department during the present year includes a determination of the latitude and longitude of a point on the international boundary near Midway, B.C. Another, which was desired near White River, Ontario, where it would form a needed tie point for geographical purposes, had to be left uncompleted on account of the approach of cold weather.

Preparation is being made for the erection of an astronomical observatory at Ottawa, and the installation of a large telescope, provision for this having been made by parliament at its last session.

THE YUKON TERRITORY.

There are two important appointments to record in connection with the administration of the Yukon Territory, namely, on March 11 last, that of the Honourable James Hamilton Ross, formerly Commissioner of Public Works in the government of the North-west Territories, as Commissioner of the Yukon Territory, in lieu of Mr. Wm. Ogilvie, and that of Mr. F. T. Congdon, barrister, of Halifax, N.S., on the 13th of the same month, as legal adviser and member of the Yukon council.

Mr. Ross' experience as administrator, and his practical knowledge of official requirements in connection with the public service specially fit him for the office of trust and responsibility to which he has been appointed.

I wish to place on record here the heartfelt sympathy of the department at the great misfortune which befell Mr. Ross by the loss of his estimable wife and child through the wreck of the *Islander*, on her south-bound trip from Skagway, off Douglas island, near Juneau, August 15 last.

As Mr. Ross has only been a few mouths at the head of the government of the territory, he has not yet been in a position to send a detailed report upon the operation of each branch of the service under his control. He hus, however, furnished a general report upon the present coudition of the district, while will be found under Purt IX.

The general tenor of this report is very satisfactory. The discovery and use of coal for eity and mining purposes; the probable increase in the gold production through the cheaper transportation facilities promised by companies directly interested in that industry; the extension of the road systems in the vicinity of Dawson and the surrounding mining centres; the municipal incorporation of Dawson; it he almost total absence of erime, are subjects ably touched upon by the Commissioner, and which are all indicative of the permanencey of the Yukon gold fields and of their gradually increasing importance.

Although there has been a decrease in the royalty collected on Yukon gold this year, which is of course attributable to the reduction from 10 to 5 per cent on gold mined which eame into force in the month of April last, the bulletins which have been recently published would appear to show that the gold production for the past two or three months has been in excess of all previous returns issued in this relation. It may be further pointed out that the general revenue from the Yukon during the past year, namely, 82,011,311.07, was the largest on record, being an increase of \$207,787.01 orer 1509-1000.

Full particulars with regard to operations of the department's offices in the Yukon will be found under the Timber and Miues section of the report.

I think it will be useful to quote in full the regulations now in force with regard to the importation of spirituous liquors into the Yukon Territory. They are as follows :--

*Regulations governing the importation of liquors into the Yukon Territory, as authorized by Orders in Council, dated respectively February 25, 1901, and March 18, 1901.

'In accordance with the provisions in that behalf contained in the Act 01 Victorin, Chapter 6, "The Yukon Territory Act," as amended by the Act 62-63 Victoria, Chapter 11, the Commissioner of the Yukon Territory is authorized to issue permits for the importation into that Territory of such liquors and other intoxicauts, but solely upon and subject to the following conditions or regulations, that is to asy:-

¹1. In these regulations and in any permit issued thereunder and in the ordinanc-herinafter mentioned and any other ordinance which may be passed under the provisions of the said Acts for the purpose of preventing the importation of any malt or spirituus liquors or other intoxicants, except under permit issued under, in virtue of and in accordance with such regulations : (b) the expression "liquors" areas and includes all apirituous and matt liquors and all embinations of liquors and drinks and drinkshad drinkshad thuids with such regulations; (c) the expression "giord", "strength of proof," or "spirits of the strength of proof," means any intoxicating spirit or hyper hyper or "spirits of the strength of proof," means any intoxication "giolo" and liquors "means and Includes all apirituoys, and the expression "cond", "strength of proof," means any intoxication "giolo" and liquors "means and Includes and Instances, close, shope, above the expression "cond", "strength of proof," means any intoxicating spirits of the strength of proof," means any intoxicating spirits or the strength of proof, we commissioner " means the Commissioner of the Vakon Territory, and (f) the expression "means," means a likense for the sale within the Yukon Territory, by wholesale only, of liquors, and here inabove defined, in warehouses, stores, above proor bas not than tarvers, ins. saloors, or the sale within the Yukon Territory, by wholesale only, of liquors, and here inabove defined, in warehouses, stores, above proor place so the than tarvers, ins. saloors, store, shope or place so the than tarvers, ins. saloors, the sale spirits of the sale within the Yukon Territory.

ale or beer houses or similar public houses, in quantities—if the liquors are in cask, barrel or other similar vessel—of not less than five Imperial gallons, and in quantities of not less than one dozen bottles if the liquors are bottled, no bottle to contain less than one-half pint, Imperial measure.

⁴2. No permit shall be issued to any person who has not previously obtained a wholesale license from the commissioner, and the commissioner shall have the sole right, power and authority to issue such wholesale license, which shall be signed by him, in which the name of the license and the warehouse, store, shop or place wherein he may sell and dispose of liquors by wholesale in quantities not less than those herein-before specified shall be mentioned, and in which it shall also be set forth that such wholesale license shall be and become void in case the license at any time during the currency thereof, either directly or indirectly, or by or with any partner, clerk, agent or other person, disposes of or sells liquors in any less quantities, respectively, than as hereinbefore specified, or disposes for or other place mentioned in the wholesale license, who about or upon any premises connected therewith.

'3. Each permit shall also be signed by the commissioner.

4. A fee of \$2,000 shall be paid to the commissioner for each who/esale license before the delivery of the same to the applicant therefor; and all moneys paid for such fees shall be and become part of the liquor revenue fund of the Yukon Territory, and shall be deposited to the credit of the comptroller of that territory on account of such fund.

⁶5. Except in the case of beer, as beer is hereinafter defined, a fee of 82 shall be paid for each and every gallon of liquors, of the strength of proof, or under, and so in proportion for any greater strength than the strength of proof, to be admitted under permit into the Yukon Territory.

'6. In these regulations, in any ordinance to be passed as hereinbefore mentioned, and in any permit the expression "beer " means and includes beer, ale, porter or lager beer, containing 10 per cent or less of spirits of the strength of proof, and a fee of 50 cents shall be paid for each and every gallon of beer to be admitted under permit into the Yukon Territory.

⁴7. All moneys received for fees for liquors (including beer) to be admitted, under permit, into the Yukon Territory, shall be paid to the comptroller of the Yukon Territory before the permit is issued, and all such moneys shall be and become part of the liquor revenue fund of the Yukon Territory, and shall be deposited to the credit of the comptroller of the Yukon Territory on that account.

⁴ S. Each permit shall be delivered to the officer who admits into the Yukon Territory the liquots or any portion thereof to be admitted under such permit, so that it may be transmitted to the commissioner after such officer has made any entries thereon with regard to the admission of such liquors or portion thereof as it may be necessary for him to make ; and if the total quantity of liquors mentioned in any application for a permit to the commissioner cannot be taken into the territory at one time, the applicant shall state that fact and shall also state in how may shipments such quantity of fliquors will be imported, so that if the application for the whole quantity or for more than one shipment thereof be granted, a separate permit may be issued for each of as many shipments as it may be decided to allow to be imported or brought into the territory.

⁶9. No permit shall be issued for a greater period than six months from the date thereof, and after the expiration of that period the permit shall lapse and be and become absolutely null and void, and no liquors shall be admitted into the Yukon Territory thereunder.

¹10. No liquors which are allowed to be imported or taken into the Yukon Territory under any permit shall be sold, exchanged, traded or bartered by the permittee to or with any person or company who are not licensed to purchase and sell malt, spirituous or other intoxicating liquors in the territory under the ordinance or ordinance?

now passed or hereafter to be passed in that behalf by the Governor General in Council or Commissioner in Council under the provisions of section 8 of "The Yukon Territory Act," as enacted by section 2 of the Act 02-03 Victoria, chapter 11, or any Act which may be passed to amend the same.

'11. Each permittee who imports or brings liquor into the Yukon Territory under permit shall keep a record in writing of the sale or other disposal of such liquors, in which shall be set forth the quantity and class or kind of liquor in each instance and the name of the company or person to whom it was solid, bartered or exchanged, and such record shall be open to the inspection of the oromissioner, the chief liquor license inspector of the Yukon Territory, or of any one authorized by either of them in writing for the purpose, when and as often as the commissioner or such inspector may desire to inspect the same.

⁴ 12. The commissioner or chief liquor license inspector of the Yukon Territory may take from any liquors which are being brought or which have been brought into that territory, under permit, a sufficient quantity thereof to determine whether such liquors are of the kind and strength mentioned in the permit, or whether they are of a different kind and of greater strength than therein stated.

¹13. Wines required for altar or communion purposes by the minister, priest or other dergyman or the missionary in charge of any parish, church or mission in the territory shall be admitted therein free of any fee, duty or other charge, except ordinary causoms or excise duties, as the case may be, upon the application to the commissioner in writing over his own signature of the minister, priest, missionary or other clergyman of the parish, clurch or mission, and you bishop or other dirgyman of the parish, clurch or mission, and you bishop or other dirgyman of the parish, clurch or mission, and you bishop or other dirgymany of the church for which such wines are required, but the purposes for which they are required shall be stated in the application.

⁴14. Except whees for altar or communion purposes, no liquors shall be admitted into the Yukon Territory except when carried in or by sailing ship, or vessel propelled by steam, or by railway.

⁴15. It shall be the duty of the enptain or senior officer of any skip or vessel or conductor of any raiway train in which liquors are being brought into the Yukon Territory, as well as the duty of the permittee, to report such liquors to the officer in charge of the North-west Mounted Police at the post nearest the point of entry into the territory, or to such other officer at that post as may be especially named and appoint-1 for such purpose by the commissioner or the chief liquor license inspector of the Yukon Territory.

⁴16. The commissioner may appoint from time to time, as may be decued necessary by him, one or more preventive officers to aid him and the chief liquor license inspector of the Yukon Territory in enforcing the provisions of the foregoing regulations, and in detecting and arresting any person known or suspected to be guilty of a breach of any such regulations ; and the commissioner may fix the duties and powers of such preventive officer or officers, and may fix the salary, fees or other remnaration which each of them is to be paid for his services in that behalf, which salary, fees or other remnueration shall be paid by the commissioner out of the liquor revenue fund of the Yukou Territory.

⁴ 17. It shall be the duty of every officer, non-commissioned officer, policeman or other member of the North-vest Mountel Police stationed in the Yukon Territory, to see that the several provisions of the foregoing regulations are duly observed, and to suit and assist the commissioner, chief liquor license inspector of the Yukon Territory or preventive officer or officers appointed by the commissioner, in enforcing the provisions of the foregoing regulations : and also to detect and arrest or aid in the observing and arrest of any person who is known to or suspected by such officer, non-commissioner, on the inspection writing signed by the officer, and addressed to any chief non-commissioner, on the inspective officer, and addressed to such officer, on-commissionel officer, and addressed to such officer, more commissionel officer, and addressed to such officer, more commissionel officer, policeman or presentive officer, and addressed to such officer, more commissionel officer, and addressed to such officer, and addressed to such officer, programmer and the programmer and th

being guilty or as being suspected of being guilty of a breach of any of such regulations.

¹ Notwithstanding anything contained in any of the foregoing regulations, or in the ordinance P.C. No. 257 which was passed upon March 5, 1900, being "An ordinance to prevent the illicit importation of intoxicating liquors into the Yukon Territory and the manufacturing of such liquors therein," the Commissioner of the Yukon Territory is authorized to grant permits to the officers of the North-west Mounted Police force on duty at different points in that territory, to bring into such territory to the posts at which such officers and the men of that force under their command are respectively stationed, limited quantities of beer for the personal use of such officers and men, free of all fees and other charges, the quantity in each case to be determined by the commissioner who grants the permit."

DOMINION GOVERNMENT ASSAY OFFICE.

I have already referred in an earlier part of this report to the establishment of the Dominion Government Assay Office at Vancouver, B.C. I may add in this relation that his office is now believed to be as well equipped as any other similar institution in America, and has been in full operation since the month of August last. It will undoubtedly prove of much benchi to the miners of the Yukon and British Columbia distriets, and will at the same time be of great advantage to Vancouver in attracting business which would otherwise go to the American coast cities. The office has been placed under the management and control of Mr. Thomas McCaffrey, formerly manager of the Union Bank of Canada at Winnipeg, whose thorough business training and experience specially fit him for the position.

As an encouragement to miners to have their gold assayed at this office, the government has passed a regulation by which miners who personally deliver their gold at the office are refunded one per cent on the net value of the gold upon which they have paid royalty, so that in the case of such miners the royalty is reduced to only four per cent. This concession will no doubt act as an incentive to miners to patronize the institution.

While there may be at first a financial loss in the operation of the assay office, the resulting benefits will be of such widespread character as to much more than compensate for the deficiency.

FORESTRY.

The report of the superintendent of forestry, upon the work of his office during the past year, will be found under part VIII., and will no doubt prove very interesting.

(Although this branch of the department is only as yet in its infancy, having been first established in the month of August, 1899, the results that have so far been achieved through its operations fully justify the comparatively small public expenditure which its maintenance involves. When it is considered, as pointed out by the superintendent, that oving to the efficient work performed by the forest rangers acting under his instructions, millions of feet of merchantable timber within the railway belt in the province of British Columbia were saved from destruction by impending first his yearand the same remark applies to the Riding Mountain reserve which was also protected

against serious damage from the same enusc through the efforts of the rangers—there can be no ground for questioning the wisdom of the policy inaugurated by the department in this relation.

In view of the importance of the interests attached to the good administration of the forest domain, it is not to be wondered at that from time immemorial in the chief countries of Europe, notably Germany, France, Belgium, Spain, Italy, Russia, Norway and Sweden, systems of sylviculture and stringent laws have been in force for the improvement of forests and their preservation against depreduction and abuse. As pointed out in my report of 1899, when dealing with this particular subject, the success which had attended the work of afforestation which it was my privilege to observe while travelling in Belgium was such as to leave no doubt in my mind that similar results could be obtained in Manitoba and the North-west Territories by methods suitable to the elimate.

Great progress in the same direction has of late years been made in Germany and France, and more recently the efforts put forth in the neighbouring republic to improve forest lands have proved most successful from every standpoint.

It may be interesting to note here that in the year 1885 a committee was appointed by the House of Commons in England to consider whether, by the establishment of a forest school, or otherwise, the woodlands of England, Wales, Sectland and Ireland could be rendered more remunerative, and the following extracts from the committee's report may prove interesting —

'The committee has received evidence from persons representing various professions, occupations and interests, connected with woodlands and forest management in England, as well as in Seciland and Ireland, and has especially directed its attention to the following points:-

(1.) How far there is need of some means of giving instruction to those engaged in the cultivation and management of woodlands.

(2.) How far the establishment of a school of forestry would meet such need.

(3.) Whether a board of persons representing various interests and associations connected with agriculture, and silviculture, should be formed with the assistance of parliament for the purpose of examination, granting certificates, and generally promoting the improvement of our woodlands.

(4.) Whether by either or both of such means the cultivation of woodlands could be made more remunerative.

⁴The woodlands belonging to the state are comparatively small, though even, as regards them, the difference between skilled and unskilled management would itself more than repay the cost of a forest school. The woodlands in private hands, however, are far more considerable, and the total area of woodlands amounts, according to the agricultural accounts, to 2,758,000 acres; viz:

'England				1,466,000
'Wales				163,000
' Scotland				829,000
'Ireland				330,000

* Moreover, strong evidence has been given before your committee that large tracks of land in the United Kingdom, especially in Scotland and Ireland, might be planted with advantage. The forests in India and the colonies must also be taken into consideration, and on the whole, the forest area in the British Empire is greater than that the taken is the strong strong

belonging to any other country. Your committee are satisfied that so far as Great Britain and Ireland are concerned, the management of our woodlands might be materiaally improved. Moreover, the present depressed values render economical and skilful management even more important than if the range of prices were higher, though it is probable that, with the waste of forcet slewhere, a brighter future is in store for home forestry, and that some considerable proportion of timber now imported, to the value of \$16,000,000, might, under more skilful management, be raised at home.

⁴ Nearly every other civilized state possesses one or more forest schools. In this country, on the contrary, no organized system of forestry instruction is in existence, excepting in connection with the Indian service.

⁴ The witnesses examined before the committee have been generally and strongly of the opinion that the establishment of forest schools, or at any rate of some organized system of forest instruction, would be very desirable; but they have differed considerably as to the best mode in which this might be effected. There is a general agreement that the establishment of a forest board would be a wise step.

⁴ As regards the formation of a forest school, more than one centre of instruction would be desirable; though in the first instance it might be well to establish one school only, in order to secure the most complete equipment, the best teachers and a sufficiency of students. The Indian government is already at some expense on their behalf, and it is probable that the fees from other students might nearly, if not altogether, repay any additional expense which their admission would entail. This school would doubtes be situated are fate only for the other of the optimum that it would probable be desirable to found another in Ireland.

⁴ Sir Alexander Taylor, president of the Royal Engineering College at Cooper's Hill, considers, however, that a separate course would be required if English students are to be admitted, and your committee are not informed whether the Indian government would be prepared to organize such course.

¹ As regarks Great Britain and Ireland, the demand would be principally for instruction adapted to the needs of the land agents, foresters and wood revers; and your committee have it in evidence that they might profitably receive instruction together with those studying the higher branches of forestry for Home, the Indian and colonial service, who would carry their studies further. Even as regards ordinary woodmen, your committee consider that a certain amount of simple and practical instruction would be very useful. It has been stated by your committee that the authorities of other institutions, as, for instance, of the Agricultural College at Circnecster and Downton, would be prepared to organize a system of forest instruction, but the evidence has not been sufficient to enable your committee to decide on the respective advantages which might be offered by these institutions.

⁴ Apart from the question of actual profit derived from tree-planting, its importance as an accessory to agriculture is shown by the effects which wook have in affording abelter and improving the elimate ; and your committee are of the opinion that, whilst on public and national grounds timber cultivation on amore scientific system should be encouraged. Indowners might make their wooks more renumerative were greater attention paid to the selection of trees suitable to different soils and to more skillar management after the trees are planted. Your committee have had evidence that, apart from any immediate pecuniary benefits, there would be considerable social and economics advantages in an extensive system of planting in many parts of the kingdom, especially on the west side of Ireland and in the Highlands of Scotland. This subject is one of great importance and well worthy of early consideration."

In a country so extensively wooded as was Canada at the time of its first occupation, it will be readily understood why such little notice has so far been taken of the forests, except as to clearing the land for settlement. The ruthless destruction of some of the most valuable timber areas, coupled with the increased domand for timber

consequent upon the development of the country makes it quite clear to-day, however, that any measures taken by the government towards the reservation and improvement of our woodlands, which are by far the mest important natural asset of Canada, should commend themselves to all who take any interest in its welfare.

TIMBER RESERVATIONS.

The suggestions of the superintendent with regard to the necessity of maintaining our timber reserves, and of increasing their number where it may be found necessary to do so, are worthy of careful consideration. While it is, no doubt, in the interest of the prairie region, from a climatic and agricultural point of view, that every encouragement should be given to the propagation of trees and tree-planting generally in Manitoba and the North-west Territories, the first dury incumbent upon the government is that effectual measures be adopted and stringently enforced for the preservation and improvement of our forest lands. It is, therefore, proposed to presecute vigorously the policy which has been inaugurated in this relation.

TREE-PLANTING.

From the large number of applications that have been received from settlers who are desirous of taking advantage of the assistance afforded by the government to these who wish to devote a portion of their farms to tree-culture, there would appear to be a growing interest taken throughout the west in forest plantations and shelter belts, and the remarks of the superintendent in this respect will also be read with interest. It is gratifying to note that this branch of the work is looked upon with favour by settlers generally in the west, and that the prospects for the future are meast promising.

THE CANADIAN FORESTRY ASSOCIATION.

The second annual meeting of this association was held at Ottawa on the 7th of March last, and the report upon its operations, which has since appeared in a very atractive pamphlet form, will be found to be a valuable addition to the present limited aupply of literature bearing upon the forest resources of Canada. The contributions, embodied in the report, from leading representatives of the different provinces, upon the woodlands of their respective districts, will not fail to greatly advance the cause of forestry, coming as they do from persons of such high scientific attainments and thoroughly competent to speak authoritatively upon the important matters which they have so ably treated. I desire to place on record the department's appreciation of the valuable assistance thus afforded to the department by the association, and beg to guote in full the conclusion of the report of the board of directors, in which I full concur:—

⁴ The great extension of the pulp industry and the demand created thereby for spruce timber especially render it advisable that a special study of this tree should also be made so that we may know what our resources for this purpose are and when and how steps should be taken to ensure that the returns from this source of wealth should be retained at the highest possible permanent figure.

⁴ Tree planting on farms, and particularly on the great plains of the west, is now receiving more of the attention which it deserves. It is a subject for congratulation that

the Dominion government is giving special consideration to this question, and we hope the deliberations of this association may result in proper support being given to any properly devised plan for advancing this work.

⁴ While all the steps in the development of the forestry policy of Canada may not yet be perfectly clear, the necessity for, and the method of the preservation of the preent timber supply are sufficiently evident to justify your board in urging that the influence of the association should be used to secure that the Forest Fire Acts of all the provinces should be made as effective as possible, both by proper provisions and a widespread advertisement of them. The extension of the fire ranging system should also be urged when the necessities of the case will permit.

⁴ Recognizing the advantage of having a strong public sentiment behind any governmental action, and believing that there is a latent and hithero unexpressed feeling in the country in favour of both the federal and provincial governments giving more attention than heretofore to the forestry problem, your board would suggest the advisability of holding during the current year a number of public meetings in the large centres of population, similar to those recently held in Toronto and Kingston.

⁴ Your board feel that they would fail in their duty if they did not make mention of the kind assistance the association has received from various quarters from the press of the country; from the various kindred societies and departmental officers, both here and in the United States, and especially from the railway companies of the country, which have been exceedingly generous in furthering the interests of the association.²

It will also be interesting to note here the following remarks from Dr. C. A. Schenck, Principal of the School of Forestry, at Biltmore, North Carolina, who is without doubt one of the leading authorities on forestry in America to-day, and who very kindly favoured the association with his presence on the occasion of their last meeting, and afforded them the benefit of his experience in tree euture and afforded ture and afforded them the benefit of his experience in tree euture and afforded them the benefit of his experience in tree euture and afforded ture and afforded them the benefit of his experience in tree eutore and afforded them the benefit of his experience in tree eutore and afforded the methods and the second ture and afforded them the benefit of his experience in tree eutore and afforded them the benefit of his experience in the eutore and the second ture and afforded ture at afforded ture and afforded ture and afforded ture and afforded ture at afforde

⁴ I think in the matter of forest fire's we ought to move. The laws must be enforced. It can be done. It is done abroad. It is done in India. It think it can be done here. Whether at an expense of \$60,000 or \$60,000 you must guard all these miles of forest from fire. Though you cannot adopt European systems without money and plenty of it, fires can be revented. We should impress that on the minds of our people and legislators constantly. It is a sure investment, sure to pay. Trees are one of the best investments that the government of any people can make.

⁴ In Canada, if the population continue to increase, if the facilities of transportation continue to be developed, the price of pine stumpage, 80 years hence, might be \$20 per 1,000 feet B.M.,--the price now prevailing in Germany and France. If such are the prospects, Canada will be the richest country on earth before the dawn of the next century, provided that she continues to conservatively manage the forset resources; again, if such are the possibilities, we should at once proceed to reforest every acre of ground unit for the plough but fit for timber production.

' If such are the chances, every sapling in the forest should be as carefully protected from fire as if it were a paper dollar bill.'

ROCKY MOUNTAINS PARK OF CANADA.

The report of the superintendent of the Rocky Mountains park will be found under Part IV.

The returns for the year are very satisfactory, and show, amongst other things, that the total number of visitors for the twelve months ending June 30 last was 8,156, as compared with 6,533 for the ten months ending September 1, 1900.

The following is a table of the number of persons who visited the park during the past five years :--

1897	5,087
1898	5,537
1899	7,387
1900 (ten months)	6,533
1901	8,156

These figures are certainly indicative of the increasing popularity of the park as a resort for health and pleasure, and I quite agree with the superintemlent's suggestion that everything possible should be done to develop the attractions of the park, as, owing to its splendid situation, its unrivalled scenery and other natural beauties, it has in fact already become one of the most attractive resorts in America.

It may be mentioned in connection with the park revenue and expenditure, that the receipts for the first five years after its establishment in 1857 amounted to \$11,353, while the government expended \$142,000, and the Canadian Pacific Railway Company \$150,000, making a combined expenditure for that period of nearly \$500,000, and the population of the park, consequent upon the construction of the railway, was about 1,000. The revenue during the last five years has been \$14,945, an increase of over \$700 per year as compared with the first period, and the government expenditure but \$45,000. It is estimated that the revenue from the park this years will be about \$3,500, and there is every reason to believe that the revenue from this source will increase from this on.

It is also satisfactory to note that there were no floods or extensive fires within the limits of the park during the past year.

The superintendent's statements with regard to the animal preserve are very encouraging. As the natural surroundings of the park would appear to be quite congenial to almost any species of animals in the country, and the cost of maintenance comparatively trifling, it is the intention to add new specimens, from time to time, to the present collection, which now consists of 30 buffalo, 5 elk, 4 moose, 17 Angora goats, or 56 head m all. These animals prove a source of much interest to tourists and add greatly to the attraction of the park generally. It may be pointed out further that the establishment of an animal preserve of this kind would appear to be advisable from a national point of view, as it may ensure the rescuing of certain valuable species of animals from complete extinction, as is now being done in connection with the buffalo.

It may also be stated that the question of extending the boundaries of the park is now under consideration, as this would bring under government control several small lakes, at the heads of streams failing into Bow river, which are well stocked with fah, and which are surrounded by a country abounding in game of various sorts. The proposed extension will not involve any additional expediture further than laying out the lines and making winding roads so as to take in the watershed of the Bow river.

The department also intends to issue properly illustrated and descriptive publications, with the view of disseminating more widely and accurately a knowledge of the park's beauty.

SCHOOL LANDS.

The report of Mr. Frank S. Checkley, the clerk in charge of the school lands branch, will be found under No. 28 of the Dominion lands division of the general report.

There were no general sales of school lands held during the past year, as it was felt, after the extensive sales in Manitoba and the North-west Territories of the previous year, that the demand for this class of land would not justify the holding of any sales this year, in the interest of the school lands endowment fund.

Statements of the revenue and expenditure in connection with the position of the fund on the 30th of June last will be found annexed to the report.

With regard to charges of irregularities which were made in connection with certain of the auction sales held in Manitoba in June, 1900, reference is called to the clear and concise summary, which appears in Mr. Checkley's report, of the decision arrived at by his honour, James E. P. Prendergast, who conducted the inquiry in this relation.

It is gratifying to observe that every case of default and resule was duly investigated and reported upon, and that while it would appear from the result of the investigation that at several of the sales there were instances of combination and collusion between the bidders at the first sales and re-sales, there was no wrong doing or impropriety for which the officials of the department were responsible.

In all cases where it was shown that there had been any collusion, and the bidder failed to complete the purchase at first sale and the land was again put up, the department declined to carry out the sales, except on the condition that the purchaser should pay the price bid for the land at the first sale.

Out of 1,269 parcels of land disposed of by auction in 1900, only 31 were affected by the result of Judge Prendergast's inquiry.

MANITOBA SWAMP LANDS.

Under the provisions of section 1 of the Act 48-49 Victoria, Chapter 50, swamp lands situated in the province of Manitoba were granted to the province, and by Orders in Council, dated respectively June 19, 1556, and February 27, 1899, provision was made for the selection of these lands.

The total acreage of swamp lands transferred to the province to the 11th of September last, was 1,188,507 acres, and for the past five years, 695,396 acres.

As it was felt that it was in the public interest that the transfer of these lands should be concluded as speedily as possible, and at the suggestion of the government of Manitoba, it was decided to increase to four the number of commissioners who should make the selections, and Mr. J. A. Macdonnell, civil engineer, and Mr. A. F. Martin, Dominion land surreyor, both of the city of Winnipeg. were, therefore, appointed by Order in Council of the 31st of January last, joint commissioners for this purpose.

Messrs. H. Jukes and W. A. Ducker, the commissioners appointed in 1898, in this relation, have since been continuously engaged at the work of examination, and it is hoped now that by the combined efforts of both commissions the whole selection will be completed at an early date.

HALF-BREED COMMISSIONS.

Under Part VI, will be found the reports of the half-breed commissioners, who were appointed by Order in Council of the 2nd of March, 1900, to investigate and adjudicate upon the claims to land or scrip arising out of the extinguishment of the Indian title preferred by or on behalf of half-breeds born between the 15th July, 1870. and the end of the year 1885, in the organized districts of the North-west Territories. Mr. J. A. J. McKenna, of the Department of Indian Affairs, who was a member of the Indian Treaty Commission of 1899, in the district of Athabasca, and Mr. James Walker, of Calgary, who was a member of the half-breed commission for the same district, were appointed joint commissioners for the investigation and settlement of claims preferred by half-breeds resident in the districts of Assiniboia and Alberta. They examined in all 4,397 claims; of these 3,306 were allowed, representing an issue of money scrip to the value of \$315,600, and of land scrip covering 477,840 acres; 235 claims were disallowed and 856 reserved. Mr. N. O. Coté, of the Department of the Interior, who acted as half-breed commissioner jointly with Mr. Roger Goulet, in 1887, for the settlement of pre-transfer claims, and Mr. Samuel McLeod, of Prince Albert, N.W.T., member of the North-west legislative assembly, were appointed joint commissioners for the purpose of settling claims preferred by half-breeds resident in the district of Saskatchewan and within that portion of the territory included in the province of Manitoba, which was not within the said province as constituted by the Manitoba Act, 33 Victoria, Chapter 3.

This commission issued 1,851 certificates calling for money scrip redeemable in the purchase of land, aggregating 8344,2065, and 1926 for land scrip covering an areas of 117,680 acres of land ; 2,146 claims were examined, 1,990 of which were allowed, and the balance either reserved or disallowed. The whole number of claims investigated by both commissioners amounted to 6,543.

The claims in the Saskatchewan district, with a few exceptions in the case of absentees, were all investigated and dealt with, but owing to the delay occasioned by the large number of claimants who appeared at the first sittings of the Assinib'an and Alberta Commission, several of the claimants were unable to await the arrival of the commissioners, and, in order to remove any ground of complaint, special sittings were arranged for this year, and Mr. J. A. J. McKenna, who has since been promoted to the position of Assistant Indian Commissioner at Winnipeg, was appointed sole commissioner by Order in Council of March 16 last, to finally dispose of all remaining unsettled half-breed claims.

It is satisfactory to note that notwithstanding the onerous labours devolving upon the commissioners, who were called upon to travel by trail at remote points, the work was performed enrefully and expeditionsly.

It is hoped that the commission now in the field will be able to complete this year the investigation and settlement of all claims arising out of the extinguishment of the Indian title in Manitoba and the North-west Territories. While the cost to the country to have this brought about may appear large, it should be remembered that the claims in question should have been wiped out sitteen years ago, and that heir settlement, even at this late date, removes all possible grounds for further difficulties in the future.

THE DISTRICT OF KEEWATIN.

The report of His Honour Lieutenant Governor McMillan upon the condition of affairs in the district of Keewatin, during the past year, will be found under Part VII.

It may be observed that there is very little intercourse between the outside world and the groups of population that are scattered throughout this vast territory, which contains an area of 282,000 square miles, and which extends from the northern boundary of the province of Manitoba through the whole frigid zone, including the most northerly aretic regions. Although the native population, in the exercise of its natural avcention of hunters and fishermen, necessarily lead a nomadic life, they each belong to some particular settlement, or post, where they spend most of their lives, and thus come within the influence of the missionaries, the Hudson's Bay Company officers and other white traders who established posts or stations at all important points in the district.

It is unfortunate, as mentioned by the Lieutenant Governor, that he has been unable to make a personal journey into the territory, as it was his intention to do, as the information that he would have been able to gather in that way would not have failed to prove very interesting and useful. However, it is satisfactory to note his statement that, according to the general information which he has been able to obtain, the natives of that part of the district immediately bordering the province of Manitoba who are more particularly engaged in the fishing industry, as well as those living more to the north, have enjoyed a fairly prosprous year, and that the prospects for the future would appear to be even brighter, and that there is, therefore, no occasion for anxiety as to their means of livelihood.

THE DISTRICT OF ATHABASCA.

Two survey parties were sent out during the past season to this district, one under Mr. A. C. Tahlot, who proceeded early in the spring to Lesser Slave lake, with instructions to lay out occupied lands into lots of suitable size, as requested by settlers in that neighbourhood; and the other party under Mr. C. C. Fairchild, D.L.S., who left in May for Peace river, near Durveyan. Mr. Fairchild's mission was for the purpose of surveying township outlines and subdividing the necessary townships in the tract of 'La Société de Colonisation de la Rivière la Paix'.

With the exception of the above there has been no other action taken by the department with regard to this district. I an glad to be in a position to report, however, that the different groups of population living in that territory would appear to have enjoyed continued peace and prosperity since last year.

Reports have recently been received, however, that half-breeds and Indians living in the eastern part of Athabasea, in the vicinity of Ile a la Crosse, north-west of Prince Albert, have suffered considerable damage from the rising of the rivers and lakes during the month of August last, and that there is some likelihood of distress resulting in consequence. The department has taken the necessary steps to have the matter fully inquired into, and its officers will afford such relief as may be necessary.

I have the honour to be, sir,

Your obedient servant,

JAS. A. SMART, Deputy Minister of the Interior. 1-2 EDWARD VII.

SESSIONAL PAPER No. 25

4, 1902

PART I.

DOMINION LANDS

25-i-1

DOMINION LANDS.

No. 1.

REPORT OF THE COMMISSIONER.

DEPARTMENT OF THE INTERIOR,

OTTAWA, September 12, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior,

Ottawa.

Sig.--I have the honour to present a statement showing the principal items of work performed in my office during the departmental year ended June 30 last, and, for the sake of comparison, the statement for the previous year is given alongside.

You will also find herewith the reports, covering the same period, of the Inspector of Dominion Land Agencies, as well as the reports of the several local agents :--

COMMISSIONER'S OFFICE-GENERAL STATEMENT OF WORK PERFORMED.

Files transferred and dealt with	1901. 31,153	1900. 26,527
Letters sentOriginals, 21,620 Triplicates, 16,978	18,4 10,5	
	38,598	- 29,482
Applications for patent—		
Examined	5,456	5,464
New applications	2,202	2,373
Certificates of recommendation issued	2,131	2,895
Official receipts issued	469	649

The reports of the local agents are, on the whole, of an exceedingly gratifying and encouraging character; in some of the older districts; there has been a falling off in the number of entries granted. This must, of course, be anticipated as the available lands become occupied. Additional surveys, increased railway and road facilities will, however, from time to time open up new districts where desirable locations may be secured. Very many incoming settlers have preferred to purchase lands in the morpopulated localities in order to gain the advantages of neighbours, churches, schools, sec. These do not appear in the agents' returns, so that even where there has been a falling off in the number of entries granted, this does not necessarily mean a diminution in the number of nex arrivals.

The agents' reports further indicate that the settlers, generally speaking, are prosperous and well satisfied with their holdings : the effect of which will be increased settlement, as there is no more potent factor in inducing desirable immigration than the favourable testimony of such settlers.

Although Manitoba and the North-west Territories have experienced many good seasons, the crop prospects for this year have never been equalled. The stock and dairying industries are also said to be flourishing.

There has also been very little damage reported by reason of fire or storm, and the general outlook is of the most hopeful character.

I am, sir, your obedient servant,



25-i-11

No. 2.

REPORT OF THE INSPECTOR OF AGENCIES.

Department of the Interior, Office of the Inspector of Agencies, Winnipeg, Manitoba, September 13, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior, Ottawa.

Sug.—I have the honour to transmit herewith for publication my annual report for the year just closed, dealing with the work of my office as Inspector of Dominion Lands and Crown Timber Agencies. There are at the present time under my supervision, sixteen permanently established offices, and twenty-four sub-agencies. All of the permanent offices were visited and thoroughly inspected once in the year, and some of them twice, while as to the sub-agencies, these have been inspected only in cases where the volume of business transacted second to call for such inspection.

My report was duly transmitted to you on completion of each inspection. The matters dealt with in these reports being merely of departmental concern, it is unnecessary to make further allusion to them here. Generally I was able to report an efficient discharge of their duties by the staffs of the several offices. The work of the past year has been extremely heavy at several of the offices, which necessitated additions to the respective staffs. Further changes are desirable in the near future in order to adjust the staff as a whole in strict relation to the volume and character of the business to be transacted in the various agencies. In pursuance of this policy, you may find it advisable to transfer certain officers from agencies in which the transactions may show a decline to those in districts to which settlement is being more largely directed.

There are now employed at the sixteen permanent agencies, forty-eight officers (including the agents), as compared with forty-one officers employed in the preceding year. The expenditure of the permanent agencies was \$47,857.29 for the year, being an increase of only \$2,000.56 over 1859-1900, a small additional cost in view of the large increase in business represented by a revenue of \$42,007.51.5, exclusive of payments made at the head office on account of the respective agencies. For the antecedent year the revenue was \$301,633.59.

Statements are hereto annexed designated 'A.' 'B' and 'C,' exhibiting as far as practicable the transactions of the permanent agencies, of the sub-agencies and of the homestead inspection and forest ranger service.

Statement ' Λ ' offers a comparison of the business transacted during the past two years. It will be observed that under every heading a substantial increase is shown in favour of the year which closed on June 30 last.

It is gratifying to note that the number of homestead entries granted exceeds by nearly 700 these of any previous year, the total number being 3,617. It is unnecessary to enter further into a discussion of the particulars set forth in Schedules 'A,' 'B' and 'C' as they are intended to be self-explanatory.

In addition to the regular inspection duties, you are aware that my office now carefully securitizes the nonthly expenditures of all lands and timber agreements, homestead inspectors and forest rangers, and that I am called upon during the year to um detaths such special work as occasion may demand. In October and November last, I was associated with you in the commission appointed to investigate the management and sale of lots in the town sites of Virden, Qu'Appelle, Regin and Maose Jaw, in

all of which the government owns a half interest. I was also selected to accompany you during the past summer on your visit to the various lands agencies, and during your examination into existing conditions of the ranching industry, stock-watering reservations, and other matters of departmental concern.

Enclosed with this are my reports as agent of Dominion Lands and Crown Timber Agent for the Winnipeg district, addressed to the Commissioner of Dominion Lands, together with the several schedules apportaining to these reports.

Respectfully submitted,

F. F. STEPHENSON, Inspector of Agencies.

901.
19
30
June
ending
year
the
s for
ction
ransa
pal t
princi
gencies,
AgA 1
Land
NOININO
AD

															1-2	EDWARD
Exp'nditure, Salaries	and Contin- gencies.		1,974 26	3,867 14	2,534.98	4,216 00	2.177 31	1,976 30	1,541 85	02 62 F 62	2.152 46	4,374 03	13,084 19 2,937 06	51,056 62	45,706 73	noies.
.He	Xo. of St		01 -	• • • •	+ 01	+-	- 00	01	- 9	101	01	10	2 **	17	7	N, Age
Revenue.	Total Scrip & Cash.	\$ cts.	13,655 99	24,546 52	05,21, 27	29,124 15	55,074 75	11,490 58	1,193 10	17.007 20	17.510 77	51,183 53	90,678 37 14,440 08	422,373 51	301,633 59	E. F. STEPHENSON, Inspector of Agencies.
a	Scrip.	\$ cts.	6,036 81	12,068 90	2,709 36	5,402 88	34,210 21	3,947 54	485 10	3.163 81	7,039 53	31,855 80	54,735 (0) 6,977 20	197,416.44	00,911 68,309 73	E. F. S7
	Sent.		2,894	11,269	3,769	1 200	5,396	3,411	1,666	1.523	3,602	9,106	16,314	7,288	60,911	
LETTERS	Received.		4,441	12 078	5.819	8,002	7,733	5,253	1,765				16,178	96,391	74,273	
.bərssi stir	Hay pern		605	206	22 22 23 23 24	9 K	-42	326		29	40	1,046	510	5,291	4,432	
stimre	Timber I.		311	372	101	161	130	516		343	531	52	12	5,344	5,174	
-uro soja	Land ent celled.		174	121	1 H	2 <u>6</u> 2	120	21	01	18	264	350	318	2,328	2,123	
ons for beviezer.	Applicati		100					173	57	88	88	919	293	2,269	2,234	
LAND SCRP LOCATED.	Acres.		1,680	2,349.50		64,190 05	7,720 75	800		39,639	6,240	614,419		214.571 10		
$_{\rm LA}$	No.		t	93	8	335	8	2		294		590		1,601		
.89	les bued		28	191	12	24 22 24	36	16	9	18	8	306	<u>1</u> 8	924	792	
serrand be	Homeste		166	407	457	1,631	524	22	77	512	846	912	643 443	8,167	7,407	
A generies.			Alameda	Brandon	Dauphin	Kamloons		Minnedosa.	New Westmuster - Land	rt.	Red Deer.	Negrua.	Vorkton.	For year ending June 30, 1891.	For comparison, year ending June 30, 1900	

SESSIONAL PAPER No. 25								
B.—List of Sub-Agents of Dominion Lands and Statement of Work performed by them during the Departmental Year ended June 30, 1301.	Remarks.	Due of apprintment, the dote 17, 1900, Net record. Date of apprintment, Areil 1, 1901, Date of approximation, Areil 1, 1901, Date of approximation, Areil 1, 1901, Apprintment dated May 15, 1901, Apprintment dated May 15, 1901, For a sub- ended June 10, 1901, Stoppent lengt For a sub- ended June 10, 1901, Stoppent lengt For example of May 31, 1901, Stoppent June, Apprintment dated May 1, 1901, Stoppent June, May 2001, edited May 11, 1901.						
rmed by th	Salary.	\$ 64% 118 64 118 65 75 90 75 90 70						
Vork perfo , 1901.	Amount remitted to local land office.	 S cda, S c						
ent of Work J June 30, 1901	Application for bay permits taken.	25 25 26 26 26 26 26 26 26 26 26 26 26 26 26						
Stateme	Application for timber permits taken.	5-1334-1-3-3 2888221 5-334-1-3-3 8888221 288888221 2888882221 2888882221 2888882221 2888882221 28888822222222						
ds and	Application for .	ar 2570-21-0882 20-1-21 20-1-21 20-1-22 20 20-22 20 20-22 20 20-22 20 20-22 20 20-22 20 20 20 20 20 20 20 20 20 20 20 20 2						
Agents of Dominion Land	Application for homestead en- tries taken.	888 **********************************						
	Place.	for cirkippelle Stant Link, ppelle Stant Link, ppelle Stant Link, ppelle Martina Marti						
BList of Sub-	Name.	[6] Xyeuha, M. Hali, M. Hali, M. Hali, M. Hali, M. Hali, M. Hang, M. Manan, M. Mathana, M. Mathana, M. Mathana, M. Mathana, M. M. Mathana, M. M. Lisana, M. Lisana,						

Rest, Navela, R.H. Marthy, S.P. Marthy, and M. Marthy, S. Marthy, M. Marthy, M. Marthy, M. Marthy, M. Name.

7

Inspector of Agencies.

E. F. STEPHENSON,

Remarks.	Berlied June 30, 1901, on account of wickness, Appointed June 30, 1901, on account of wickness, Or days three an onliad during year, no sulary paid. Domised June 30, 100, https://www.ick. Theorem.chiefty descored to induce work. Appointed Mark J. 1903, https://www.ick. Appointed Mark J. 1903, https://www.ick. Applied. Applied. Applied.
Miles Travelled by Rail.	2, 100 2, 2344 1, 342 1, 342 374 374 374 374 374 375 374 377 374 377 377 377 377 377 377 377
Miles Travelled by Wagon.	3,224 4,785 3,234 4,777 4,777 4,777 4,777 4,777 4,777 4,777 4,777 4,716 4,717 4,717 4,717 4,717 4,717 4,717 4,717 4,717 4,716 4,717 4,716 4,716 4,716 4,716 4,716 4,716 4,716 4,716 4,716 4,7174
Number of Applications for patent taken	1997 1997 1997 1997 1997 1997 1997 1997
Number of Land Made.	249 249 1977 1977 1977 1976 1978 1978 1978 1978 1978 1978 1978 1978
Head Quarters.	Edmonton to an interference to an interference to an interference Minimiser
Name of Inspector.	dan Cabana Li, D. Sadara Li, D. Sadara M. P. Capana M. P. Capana M. P. Capana M. P. Capana M. S. Jacken M. M. Capana M. Langara M.

C.—STATEMENT showing the work of the Homestead Inspectors and Forest Rangers for the twelve months ending June 30, 1901.

8

Remarka.	*See under heading Homestead Inspector. Appended December 18, 1990.	
Travelles.	$\begin{array}{c} 4,092\\ 1,725\\ 2,420\\ 2,420\end{array}$	8,237
Seizures Made.	1 10	12
Timber Hay Remain Applications Applications Received.	F.	<i>l</i> ~
Timber Permit Applications Received.	306 34 102 47	161
Head Quarterse.	Raiseevain. Sokark . Treberne Moone Moantain Kandoope	
Name,	Chus, A. Walkindaw Jaseph Cose Win, McMillan Dohn Abercondio, D. J. McDonadi .	

E. F. STEPHENSON, Inspector of Agencies.

No. 3.

REPORT OF THE AGENT AT ALAMEDA.

Department of the Interior, Dominion Lands Office, Alameda, Assiniboia, August 7, 1901.

The Commissioner of Dominion Lands, Ottawa.

SIR,—I have the honour to submit the annual report of the work of this agency for the year ending June 30 last.

A statement of the work done will be found attached, which shows a large increase over any previous year in the number of letters both received and sent, and also in the number of hay and timber permits issued. There has been a falling off in the matter of homestead entries, partially owing to the fact that most of the desirable lands within a radius of ten or twelve miles of the towns have been taken up. There are, however, large tracts of nunccupied lands throughout this district, waiting only for the settler to acquire possession of as free homesteads.

The Canadian Pacific Railway branch was completed last fall as far as Arcola, where a thriving town has sprung up, which already boasts of four hundred inhabitants. This road will be an inestimable boon to the settlers south of Moose Mountain. Large areas of Canadian Pacific Railway lands have been sold to the settlers who are desirous of farming on a large scale.

Oving to the dry season last year it was feared there would be a scarcity of fodder for cattle, but the spring opened up early and stock eame through in good condition. The season so far has been one of, if not the most, favourable on record for crops of all kinds, and judging by present appearances, wheat will average at least twentyfive bushels per acre. There will also be a large crop of oats and roots, and abung dance of hay. Some wheat has already been cut, and harvesting will be general in three or four days.

During the month of June about $6\frac{1}{2}$ inches of rain fell, and farmers have broken large areas of land.

There has been a large influx of settlers from the United States, many of them being returned Canadians. These settlers are all possessed of ample means to enable them to begin work under favourable conditions.

The export of live stock does not begin till next month, and I regret that, owing to the early preparation of this report, I am unable to give any estimate of this trade.

There has been a large increase over previous years in the output of coal from the mines at Roche Percee and Coalfields, and the presence of this coal practically solves the fuel question of the whole of this south-western country.

Appended is a statement of the work performed during the fiscal year ending June 30 last.

Letters received	4,441
Letters written	
Homestend entries	466
Entries eaneelled	
Land sales	
Land serip located	
Applications for patent	
Hay permits issued	
Timber permits issued	
Seed grain collections	20

I am, sir, your obedient servant,

R. CLAUD KISBEY, Agent of Dominion Lands,

No. 4.

REPORT OF THE AGENT AT BATTLEFORD.

Department of the Interior, Dominion Lands Office, Battleford, Saskatchewan, July 22, 1901.

The Commissioner of Dominion Lands, Ottawa.

 $S_{IR,-I}$ have the honour to submit the following report for the year ended the 30th ultimo.

I am glad to be able to report once more that the atmospheric conditions have favoured the agricultural industries of our settlers. The winter was long but not severe, and ranchers had every reason to rojoice. The spring was unusually wet, but has been succeeded by such warm weather that crops of grain, roots and vegetables will suffer little or no disadvantage from early drawbacks.

The yield of grains last year was phenomenal, particularly as to quality. The fact that a carload of oats was exported for soci, involving a haul of 95 miles to Saskatoon for shipment, furnishes effective testimony to the fact that this district deserves a prominent place in the rank of grain-producing portions of the west. This year's grain crop will not mature so early as that of last year, but in quantity and sample it is expected to rival that of last year. Weather conditions during harvest will have grate effect in deciding the quality of the grain ; if, as is sometimes the ease, excessive rainfall occur, the grain will be materially injured, but if August and September be dry as usual, the grain will obubles be soared in excellent condition.

But cultivation of the land is not yet conducted on an extensive scale, though the area under cultivation is now increasing rapidly, as the advent of a line of railway in the near future is assured. Hitherto sufficient grain for local consumption only was grown, and surplus grain was fed to stock in fitting it for market. It now appears that mixed farming is destined to supplant ranching as the chief industry of the settlers, and when a railway is projected through the district ranchers will move further back, leaving the lands over which herds are now grazing for those who will obtain homestead entries and proceed to earn their livelihood by means of farm and dairy products. This district offers exceptional advantages along the line of dairy farming.

The number of earthe and horses has not increased materially during the past year. About 3,000 head of cattle have been exported, chieffy to the Liverpool market. Between 1,000 and 1,200 head have been used for local consumption, and no doubt the natural increase of the cattle in the district one year ago does not far exceed the total number thus disposed of. The chief market for horses has been with the Doukholor immigrants, who have located in the adjoining district, just beyond our eastern boundary. Some dealers have found good markets all along the railway between Saskatoon and Prince Albert. The total number thus exported was between 250 and 300, but the natural increase is estimated at 700 or 750 more than that. Horses have enhanced in value, partly owing to the influence of the demand created by the South African war, but chiefly owing to the needs of the large numbers of immigrants to the Prince Albert district.

It is not yet certain in which particular direction either of the proposed railway lines will pass; consequently many of our settlers who are entitled to homestead

entries defer making application in the hope that they may secure favoured locations when the routes of the railway lines are definitely fixed. Notwithstanding this, howver, the number of entries shows an increase over last year.

The revenue of this office shows a gross increase of nearly 20 per cent over that of last year, though the work of the office has not increased materially. The following is a statement of the work done during the year :--

Letters received	351
Letters sent	214
Homestead entries granted	10
Entries cancelled	2
Hay permits issued	12
Timber permits issued	15
Applications for patent received	2

I am, sir, your obedient servant,

R. F. CHISHOLM, Agent of Dominion Lands.

No. 5.

REPORT OF THE AGENT AT BRANDON.

Department of the Interior, Dominion Lands Office, Brandon, Manitoba, August 8, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sm_{β}—I have the honour to submit the annual report for the year ending June 30, and in doing so I am pleased to be able to state that Manitoba never presented such an excellent appearance as at the present time. The spring opened early and enabled the farmers to sow a large acreage; then, we have had very warm weather, with showers almost daily during the month of June, so that everything goes to show that this year will produce the greatest quantity of wheat and the largest acreage yield in the history of the province.

Land appears to be rising in value, and if the crop comes off successfully, I feel sure there will be a great demand for the purchase of land this fall ; and I think we have reason to anticipate a large immigration of new settlers in the spring.

My report will show a decrease in the number of entries as compared with last year, but this is owing, no doubt, to the land being pretty well taken up in this district, and to the fact that there seems to be a boom in the Arcola and Moose Mountain districts. My report will also show a decrease in the number of cancellations, indicating that the amplicants intend to become owners of the land.

Creameries are flourishing in this district, as the farmers are patronizing them more every year on account of mixed farming becoming more general.

Although we have this summer felt the effects of last year's drought, yet there is an air of prosperity prevalent which should increase the notoriety of Manitoba.

I append herewith a statement of entries, &c. :--

Letters received	
Letters sent	11,189
Homestead entries granted	405
Entries cancelled	152
Hay permits issued	902
Timber permits issued	
Applications for patent received	304

I am, sir, your obedient servant,

L. J. CLEMENT, Agent of Dominion Lands.

No. 6.

REPORT OF THE AGENT AT CALGARY.

Department of the Interior, Dominion Lands Office, Calgary, Alberta, August 14, 1901.

The Commissioner of Dominion Lands, Ottawa.

SIR,---I have the honour to submit my report of the work performed in this office during the year ended June 30, 1901 :---

Letters received.	6,934
Letters sent	4,588
Homestead entries granted	803
Sales entries	
Half-breed land scrips located	96
Entries cancelled	129
Hay permits issued	182
Timber permits issued	164
Applications for patent received	63
Mining fees received	49
Collections on account of grazing rentals	104

The number of homestead entries, 803, exceeds the number granted the previous year by 365.

The revenue from lands amounts to \$53,778.55, exclusive of a considerable amount paid at head office on account of grazing leases, &e., and exceeds the revenue for the preceding twelve months by \$83,064.16.

The crop of 1900 was very good in this district. Notwithstanding the snow storm in harvest time, during the latter part of Angust, little or no damage was done; fine weather came, the snow disappeared, and everything dried out nicely. This year the crops are looking well in this district, the growth being excellent; and, if the weather continues, a splendid harvest will be gathered.

The cattle business, one of the most important industrics of this section of the country, is in a very flourishing condition, the prices being very good.

The lumber trade has also been very brisk.

Immigration into the whole of Alberta has been very large this year, and this district has received a very fair share. The number of people accommodated at the immigration hall during the year ended June 30 last amounted to 2,675 persons, being an increase over the number accommodated the previous year of 916; but this, as has been stated in previous reports, does not alford an adequate means of estimating the total number of settlers, as very many put up at hotels, or proceed to their destination without stopping over. From an estimate made by Mr, James Winn, the caretake-of the immigration hall at this point, 13,425 immigrants landed in Calgary during the year just ended.

The settlers, generally, seem to be doing well, and appear to be happy and contented.

The city of Calgary is going ahead steadily.

I am, sir, your obedient servant, J. R. SUTHERLAND, Agent of Dominion Lands,

No. 7.

REPORT OF THE AGENT AT DAUPHIN.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, DAUPHIN, MANITOBA, July 3, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sm,—In reporting on the district for the year ending the 30th ultimo, I have the honour to inform you that there has been a falling off in the number of homestead entries from last year; still, it is thought that there may have been almost as many new people arrive, as numbers have bought, others squatted on lands not as yet on the market, while some who came to friends have not as yet selected locations.

Considerable activity has prevailed in sale transactions, the railway and Hudson's Bay companies, as well as owners of patented homesteads, having disposed of large areas, these generally through the district, though the bulk of the operations has been confined to the older settled parts, where in many instances high prices have been obtained.

The large proportion of good land that is on the market, and open for entry, is now taken up, and to provide for any heavy influx of new settlers, further surveys are required, these at as early a date as possible.

A large tract on the east side of the district is said to contain some desirable land. Some few townships near Lake Dauphin are already surveyed, and contain some settlers, though owing to difficulties in reaching the locality, efforts have not been very successful in directing immigration there. Still, it is thought that if larger blocks were opened, this trouble would in a great measure be overcome, as a greater selection of land would enable more people to locate, and the increased numbers would enable the people to improve the trails.

The crops last year were not as good as in some former years, heavy rains during harrest having depreciated the sample of wheat to a considerable extent, and in consequence prices ranged low; still, increased advantages in marketing holped the producers in a great measure. The Gilbert Plains branch of the Canadian Northern Railway being in operation in time to move the crop of that section, was of great assistance, as in former years long hauls were necessary to reach markets. Oats were a good crop, and brought good prices, the demand being greater than the supply, quantities being wanted for use on railway construction and numbering work; considerable quantities were imported. Barley is not grown to any great extent, but was a good crop. Roots and vegetables were as good, if not better than usual; specimens shown at the fairs were very fine. Some potatoes were shipped out to other markets and commanded good prices.

The markets for cattle and hogs still keep up, the demand being greater than the supply, and there does not appear to be that attention paid to these lines that the business warrants, the butchers finding it difficult to secure good beef, while pork is imported in large quantities.

Poultry is still in great demand, and more and closer attention would give a good return on investments in this line.

There are good prospects for a crop this season, though in certain of the low parts, heavy rains have to some extent damaged grain ; still, dry weather after this should bring all up to a fair average.

The selection of large blocks by the Swamp Landa Commissioners has cartailed in a considerable measure, the lands available for settlement, and the Galician and other foreign immigrants would have located on numbers of the quarters so selected had they been available.

Some damage was done by fires in the timbered portions, but not to such an extent as in some other years, and the damp state of the ground will preclude further destruction this fall, it is hoped.

The majority of new settlers have been Galicians, who have seattered over the district ; wherever lands could be found, new settlements are springing up constantly.

The operations in timber under free permits have been exceptionally heavy, and in many instances it is forred that advantage is taken of the liberal allowance granted homesteaders and other settlers. There is no doubt that due eare is not excrensed in taking out timber, great waste prevailing, especially where logs for awar lumber are wanted, as the whole of the tree is not taken. This is being elosely looked into by the rangers and departmental officers, and is likely to be reduced in the future.

There is evidence of steady improvement all through the district, but very few cases of distriction lawing mone up, and these among the recently arrived Galiciana; farmers are improving their surroundings, new houses and barns are to be met with in all parts, some of quite pretentious appearance. Work is being done on the reads as fast as possible, new bridges are being built, and grades put up. The question of drainage is going to be of great importance in the lower parts of the country. Some regular system will have to be inaugurated, and this would result in large areas of land now of no value being opened for settlement.

School districts are being formed from time to time, as requirements call for them, and churches are being built in all the centres.

The following is a statement of some of the work done during the year in the office :---

Homestcad entries	457
Inspections	7
Cancellations	87
Land sales (cash)	12
Land sales (serip)	12
Timber permits issued	768
Hay permits issued	467
	4
	6,019
Letters sent out	3,769
Applications for patent taken	263
Cancellations put through	
Number of staff	2

I am, sir, your obedient servant,

F. K. HERCHMER, Agent of Dominion Lands.

No. 8.

REPORT OF THE AGENT AT EDMONTON.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, EDMONTON, ALBERTA, September 6, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sin,-I have the honour to submit the annual report of this office for the year ending June 30 last.

It is pleasing to be able to report a large increase in the number of entries granted, as also in the revenue collected.

The fortile lands and attractive appearance of the country, combined with the contentment and evident prosperity to be observed throughout the district, have so impressed delegates and land hunters, that a result of their inspection has been their coming and settling. A steady stream of settlers has been flocking in all this senson, acquiring land and adding to the development observable on every side.

1899-1900.		1900-1901.		
Entries.	Revenue.	Entries.	Revenue.	
1,033	\$24,017.59	1,633	\$29,704.55	

Settlement has extended on both sides of the Calgary and Edmonton Railway, but in a greater degree to the east than to the west of it. Latterly the trend has been more ensterly, through the tract where it is supposed the Canadian Northern Railway will run, where settlers may secure first-class farming lands in close proximity to what will be a second transcontinental line, and in every way a most desirable locality. Settlers have now to go between thirty and forty miles to secure good free-grant lands, and the opening up by the Canadian Northern Railway of the country through which it will run, whill be a boot to thousands of intending settlers, placing them, as it will, within easy distance of transportation facilities and running through an equally good tract of country to this.

The crop outlook is splendid, and harvesting throughout the district is general. During the months of June and July rains were heavy and continuous all over the district, retarding the ripening of grains long past the usual time of maturity. However, the weather since then has been almost continuously fine, without any frost, and farmers and odl residents aver this will be the largest and most bountiful larvest aver reaped here. It is estimated there will be between four and five million bushels of outs for export in that part of the country to the north of Red Deer river. The yields for the different grains are estimated at 30 to 40 bushels to the are for wheat, 60 to 80 for outs and 35 for barley. I regret being unable to furnish an estimate of the

yield of wheat and barley for the district, there being no figures compiled from which a calculation could be based to arrive at such information.

I find from careful inquiry that the profitable working of the gold dredging areas on the North Saskatchewan river has been almost demonstrated by the results so far achieved. I hope to obtain information within a couple of weeks to enable me to give you definite assurance with regard to the success of this important enterprise.

The condition of the district as a whole is very satisfactory. The settlers are prosperous and contented, and merchants and business men are well satisfied with their prospects for the future.

Appended is a statement of work performed :--

Letters received	8,002
Letters sent	6,487
Applications for patent received	278
Homestead entries eancelled	412
Hay permits issued	46
Timber permits issued	
Homestead entries granted	
Half-breed serip locations	acres.

I am, sir, your obedient servant,

A. NORQUAY, Acting Agent of Dominion Lands.

No. 9.

REPORT OF THE AGENT AT KAMLOOPS.

Department of the Interior, Dominion Lands Office, Kamloops, B.C., September 13, 1901.

The Commissioner of Dominion Lands, Ottawa.

SIR,-In accordance with instructions, I beg to submit the following report for the year ended June 30 last:---

Letters received	1,626
Letters written	1,302
Homestead entries granted	62
Applications for homestead patent	- 89
Entries cancelled.	20
Hay permits	

The spring crops are about au average, while the fall crops will, I believe, be considerably above it. Hay is a heavy crop, and has been well saved. This, in a cattle country, is a matter of great importance.

Each year is proving the value of this district as a fruit producing one. Mr. Fortune, of Tranquille, seven miles from here, and Mr. Cooney, of the same locality, have quantities of magnificent peaches (one I saw weighed went 13¹/₂ ounces) and all grown in the open. Salmon Arm is also coming much to the front in fruit.

In a previous report I referred to the work being done on the North Thompson Dredger. I am now able to report this dredger an accomplished fact, and I am informed that the results are of a very encouraging nature.

Although the decision of the department to grant grazing leases is of recent date, it has already brought forth a number of applicants, anxious to take advantage of it, and, in my opinion, the effect will be that the ranges will gradually improve, as in self defence the lessees will have to fence, and so prevent the bunch grass from being tranned out.

I am, sir, your obedient servant,

E. A. NASH, Agent of Dominion Lands.

No. 10.

REPORT OF THE AGENT AT LETHBRIDGE.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, LETHBRIDGE, ALBERTA, July 11, 1901.

The Commissioner of Dominion Lands,

Sig.-I have the honour to submit my annual report for the year ending June 30, 1901.

The steady increase in immigration to this district this season, and the general development consequent thereon, are the most noteworthy and promising features I

The homestcad cutries for the year were 524, as compared with 293 for the previous one, while the receipts, exclusive of over \$40,000 paid in to head office to the credit of this agency, amounted to \$55,074.75, as against \$17,412.44 last year. Apart from the above, the Alberta Railway & Coal Company and the Calgary & Edmouton Railway Company have also disposed of large areas of their lands.

The work of the office has very largely increased, as the above figures will show. The following comparison of the letters received and sent, with those of the previous year, might also prove interesting as indicating the volume of work now being performed at this office :--

1899-1900.		1900-1901.	
Received.	Sent.	Received.	Sent.
2,925	2,106	7,727	5,423

A very considerable portion of the work was occasioned by the administration of the coal lands along the Crow's Nest branch of the Canadian Pacific Railway near Blairmore, where a large amount of money has been expended in prospecting, purchase and development of these lands.

Inquiries among farmers elicit the information that crops of all kinds are doing remarkably well, and although the spring was backward, present indications point to a very favourable harvest. In the Cardston, Mountain View, Leavitt and Actna districts the area under cultivation this year is double what it was last, and it is confidently predicted, by parties in a position to know, that the acreage under cultivation next year, which will mean over 20,000 acres, will be double what it is at the present time. After a fair test, fall wheat has been proved a success, the time for seeding being the months of July and August.

The construction of a comprehensive irrigation system has been largely instrumental in attracting the attention of a class of people who, knowing the benefits accruing from an artificial supply of water, that may be utilized whenever circumstances demand it, are taking advantage of the reasonable terms upon which irrigated lands may be secured from the company controlling them. The beneficial conditions due to and existing in those states where irrigation is in vogue are also to be obtained here. while the difference in the price of land is so greatly in favour of this district that this eircumstance will be a most potent factor in the inducement of immigration to this part.

Although the discovery of a first-class coking coal along the line of the Crow's Nest Railway is not new, still, nothing had been done towards its development till

1-2 EDWARD VII., A. 1902

this senson, when the possibilities of profitable investment appear to have drawn the attention of capitalists to that part. The value of this product, particularly to that section where it can be utilized so largely in the reduction of orcs, &c., can hardly be estimated, while the coal measures are of such great extent that their working insures to investors a permanent and profitable return. Mr. H. L. Frank and associates at Blairmore are expending a very large amount of money in the opening up of their properties there.

Southern Alberta, through its climatic advantages and the nutritive quality of its grasses, is becoming widely known as one of the finest ranching localities on this continent. There has been a great influx of ranchers from other parts of the Dominion and the United States this spring, prospecting the country with a view to securing locations. These parties have in nearly all cases applied for leases. The following figures show the value of stock imported from the United States during the last twelve months :--

Cattle	 	 	\$72,252
Horses	 	 	90,891
Sheep	 	 	8,588

Besides these, there have been shipped from Manitoba and Ontario to Medicine Hat and Lethbridge, 16,263 cattle and 720 horses, while the exports from these points are as follows:—

It is encouraging to note that the visit of Colonel Dent, in connection with the purchase of remounts for the Imperial army, has had a beneficial effect on the ranchers, who now better understand the kind of horese required.

The last winter proved a trying one on stock, owing to the scarcity of snow, but this season has been very favourable, and all kinds of stock are now in fine condition. A feature of the cattle business this year has been the large importation of 'dogies'cattle from Manitoba and Ontario. These cattle are doing splendidly on our western ranges.

With regard to sheep, there are at present about 42,300 head on lands leased especially for sheep-graving purposes. The revenue from the wool alone will amount to about 828,600. This is an industry that is as yet only in its infancy here. The conditions for sheep-raising are extremely favourable. There appears to be a consensus of opinion among sheep men that a sheep-graving district should be established here, within which other stock should not be allowed to graze. They also claim it would be very advantageous to have some broken and timbered land set apart for them to be used during the months of July and August, where the sheep could obtain shelter from the sun during the heat of the day.

Appended is a statement of the work performed during the year :--

Letters received	7,727
Letters sent	
Homestead entries granted	
Homestead entries cancelled	
General sales	
Hay permits issued	
Timber permits issued	
Applications for patent received	83

I am, sir, your obedient servant,

A. J. FRASER, Agent of Dominion Lands.

No. 11.

REPORT OF THE AGENT AT MINNEDOSA.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE,

MINNEDOSA, MANITOBA, July 27, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sum,—I have the honour to inclose you a statement of the work performed in this office during the year ending the 30th ultimo, which shows that the number of homestead entries granted is largely in excess of the number granted in any recent year, and that there has been a large increase in the correspondence as also in the number of hay and timber pormits issued.

You will probably observe that the number of entries cancelled is smaller than those cancelled in previous years, and I regard this as very satisfactory, indicating as it does that settlers value more highly their homestead drights and are giving more careful attention to the performance of their homestead duties.

At present the crops are in a most promising condition, seeding was completed in good time, there has been an abundant rainfall, and with good weather for the harvest and plenty of help to secure the grain the result will be the largest and most profitable crop ever gathered in this district.

Then, too, the grazing has been and is exceptionally good, cattle are in fine condition, cows are giving an unusual flow of milk, and this increases the business of the creamerics, all of which are doing well.

The following is a statement of the work performed in the office during the year ending June 30, 1901 :

Letters received	5,113
Letters sent	
Homestead entries granted	
Homestead entries cancelled	20
Hay permits issued	326
Timber permits issued	
Applications for patent received	173

I am, sir, your obedient servant,

JOHN FLESHER

Agent of Dominion Lands.

No. 12.

REPORT OF THE AGENT AT NEW WESTMINSTER.

Department of the Interior, Dominion Lands Office, New Westminster, B.C., July 10, 1901.

The Commissioner of Dominion Lands, Ottawa.

SIR,—I beg to submit my annual report covering the period from June 30, 1900, to June 30, 1901.

I mentioned in my previous report that the details asked for in the monthly statements of work comprise but a small part of the everyday duty of this agency, but that these monthly statements show a gradual expansion in the volume of correspondence. I have now to emphasize that remark, because a great deal of my time is taken up in furnishing information, making sketches, and other matters of the utmost importance to the development of this district.

Although the number of homesteads granted during the past year does not exceed the number of period year. I find that a very large number of people have come into the district to purchase from private parties lands which have been homesteaded and patented in past years. The majority of these arrivals seek partly improved lands, and they are wise in so doing, because the available vacant Dominion lands lie in somewhat inaccessible localities and not quite satisfactorily reached in the surveys. Hence you will observe that the names in the homestead entry returns are those of settlers who have been on their lands for a number of years waiting for the necessary lines to be run.

Many of the general sales at \$5 per acre made in the years 1\$\$9, 1\$90, 1\$91 and 1\$92, are not yet completed, and my remarks on this point in my last year's report apply for this year also.

So far as I can observe in travelling through the district there is a gradual improvement in the cultivation of the farms, the building of houses and the making of public roads, and the settlers appear to be growing in the spirit of content amidst the clearing of some very difficult places.

The summary of my 12 months' statement of work shows :---

Letters received	1,765
Letters sent	1,666
Homestead entries granted	
Homestead entries cancelled	
Applications for patent approved	
Timber permits issued	83

I am, sir, your obedient servant,

JOHN MCKENZIE, Agent of Dominion Land

No. 13.

REPORT OF THE AGENT AT PRINCE ALBERT.

Department of the Interior, Dominion Lands Office, Prince Albert, Saskatchewan, July 22, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sm.—In submitting my report of the work done at this office during the year ending June 30 hast, I beg to say that the period covered by this report has been the most prosperous one in the history of this office. The excellent harvest of 1900 and the still more promising one of the eurrout year are having their natural effect in increased immigration and in general prosperity and contentment.

The number of entries recorded was in excess of that of any previous year. These, in addition to the half-breed scrip locations, amount to the not inconsiderable number of 805. A fair idea of what this number means may be entertained when it is considered that it is equal to all the available lands for homesteading in twelve townships.

The receipts of the office on account of Dominion lands, notwithstanding the abolition of cancellation fees, have more than doubled those of the previous year.

The work performed is as follows :-

Letters received	2,274
Letters sent	1,523
Homestead entries granted	511
Half-breed serips located	294
Homestead entries eancelled	54
Hay permits issued	65
Timber permits issued	343
Applications for homestead patent	99

I am, sir, your obedient servant,

JNO. McTAGGART, Agent of Dominion Lands.

No. 14.

REPORT OF THE AGENT AT RED DEER.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Red Deer, Alberta, August 6, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sig,—I beg to submit herewith a report of work performed in this office during the fiscal year ended June 30, 1901.

As predicted in my last report, the homestead entries for the last twelve months are largely in access of the number granted during the previous year; this, I think, is partly the result of the good work done by the immigration agents in the United States and elsewhere, but were the country not all that they represent it to be, their work would be unaveiling, as the reports of these whom they have induced to settle in the country have more effect in promoting or retarding settlement than any argument that could be used by an agent. In the east and south it is generally believed that the either that the set of the winters in northern Alberta are long, and extremely cold ; this, I believe, has been the chief factor in retarding immigration, but those who have spent a winter here make the work of the immigration gent comparatively easy, as they relate their experience, and write to their friends and relatives, telling them of our fine elimate, and mild winters. Owing to the large number of homesteads entered for during the past two years it is difficult to find a quarter section of land available for entry within less than twenty miles from a town, or railway, but any one willing to go that distance can still obtain 100 acces of as good land as could be desired.

The paramount need of this district is good roads ; by reason of the comparative newness of the country very little has been done in the way of ditching or grading, and owing to the heavy rains of the past two seasons, the trails have been almost impassible, which fact has retarded settlement to a greater or less extent. The settlers, however, are fully alive to the urgent necessity of good roads, and a good start has been made in that direction this summer.

The town of Red Deer has shared in the general prosperity of the district, and has more than doubled in size within the past twelve months. A fine creamery, with all modern improvements, has been added to the business interests of the town, and is now in full operation.

The lands in Sharphead Indian reserve have nearly all been disposed of, about three sections only being left for sale at the present time. The action of the department in refusing to sell to speculators any land available for homesteading meets with universal approval, except, perhaps, in the case of the speculators, many of whom have visited the district during the past year, and have materially assisted in enhancing the value of the lands.

About 30 per cent more land has been sown to crop this year than last, and if the favourable weather which we now have continues for three weeks or a month longer, the largest crop ever gathered in this district will be one of the results.

Last winter being open and mild cattle came through in good shape, and the calf crop this spring was above the average. The settlers in this district are, on the whole, prosperous, contented and happy, and their prospects for the future are exceedingly bright.

SUMMARY OF WORK,

Letters received		5.172	
Letters written			
Applications for patent		88	
Entries cancelled		254	
Free grants			acres.
Homestead entries	846	\$8,370 00	
Inspections	2	20 00	
Cancellations	146	730 00	
Improvements	44	559 18	
Sales	46	7,179 93	
Sundries		50 00	
Timber permits	531	289 61	
Timber seizures	1	15 00	
Hay permits	45	88 70	
Grazing rents	4	33 70	
Coal land fees	1	5 00	
Seed grain collections		169 64	
Sales of lands in Indian Reserve No. 141		8,117 36	

\$25,628 12

I am, sir, your obedient servant,

W. H. COTTINGHAM, Agent of Dominion Lands.

1-2 EDWARD VII., A. 1902

No. 15.

REPORT OF THE AGENT AT REGINA.

Department of the Interior, Dominion Lands Office, Regina, Assinibola, July 27, 1901.

The Commissioner of Dominion Lands, Ottawa.

SIR,-I have the honour to submit herewith my report for the year ended June 30, 1901.

The statement of work performed is as follows :--

Letters received	
Letters written	9,106
Homestead entries granted	
Homestead entries cancelled	350
Hay permits issued	1,046
Timber permits issued	
Applications for patent received	416

The revenue of this office for the year just closed was \$51,183.58, as compared with \$29,096.65 in 1900 and \$20,770.99 in 1899, or more than that of the two previous years combined.

The demand for land is steadily increasing, not only by the new settlers, but also by those who are in a position to second homestead or purchase.

The policy of the department in limiting the acreage sold to one individual, and selling only to bona fide settlers, is a move in the right direction, and in the interests of the communities affected.

The crops in this district at the present time are in a very promising condition, and should the weather continue favourable, the returns will exceed that of any former year, averaging in the neighbourhood of forty bushels per acre.

The benefits to be derived from tree planting and tree culture were ably set forth in this agency by Mr. Stewart, Superintendent of Forestry, on his visits in the west, and the encouragement and stimulus given to this industry will prove of inestimable value to the country generally.

We are now occupying our new land office, and the excellent furniture and fittings supplied greatly facilitate the work of the staff.

I am, sir, your obedient servant,

D. S. McCANNEL, Agent of Dominion Lands.

No. 16.

REPORT OF THE AGENT AT WINNIPEG.

Department of the Interior. Dominion Lands Office, Winnipeg, Manitoba, September 12, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sig.-I beg to submit my report of the Winnipeg Dominion Lands agency for the year ended June 30 last.

The statement of work which is incorporated in the annual report of the Inspector of Agencies exhibits the transactions of the office so far as they are capable of tabulation. Au increase over the record of the preceding year will be observed under nearly all of the headings, while the revenue shows also a satisfactory augmentation.

The number of homestend entries granted (6*8) affords but a meagre indication of the progress of settlement during the period under review. To arrive at even a fair approximation of the number of new settlers who have entered into personal occupation of farming lands within the district is difficult, if not impossible. It might be feasible to ascertain how many quarter sections have beeu disposed of by the larger landed corporations but there are a gract many individuals who have effected asles of agricultural lands, and it is unlikely that either corporate or individual vendors are in a position to show how much of the land sold has fallen into the possession of new settlers, and how much has been purchased for the purpose of enlarging the farms of persons who have been in the district for some years.

The activity in the exchange of agricultural lands is, however, general over the whole district, and offers undoubtedly the best and most reliable and significant evideuce of the prosperous condition of the agricultural industry. That this condition prevails throughout the province is fully attested by the reports of the harrest recently to hand, and that this the most important of all industries is now stabilished upon a sound and permanent basis is a matter of common acknowledgment and general satisfaction. Failures and partial failures in cereal production are incident to the prosecution of agriculture in every country; in this respect, Manitoka compares favourably with the best known regions. Farmers throughout the province do not depend soldly (and perhaps not mainly) on the production of cereals. Cattle, hogs and poultry are everywhere among the most conspicuous and most profitable revonue-producers of the farm, and milway facilities are within convenient reach in nearly every part of the district. So soon as the extension of the Schlirk branch of the Canadian Pacific Railway shall have been completed to Leelandie river, transportation will be within reach of all.

As an indication of the present condition of my district I may be permitted to submit the following information extracted from a bulletin issued by the Provincial Municipal Commissioner:-

1-2 EDWARD VII., A. 1902

'Statistical information compiled to December 31, 1900, relating to rural and urban municipalities within the Winnipeg district.

Rural population	61,617
Resident farmers	13,874
No. of acres in organized municipalities	
No. of acres under cultivation	884,176
No. of acres wooded	226,988
No. of horses	44,003
No. of cattle	102,474
No. of sheep	17,172
No. of pigs	30,833
Assessment, realty and personalty	
Urban population	57,553
Assessment, realty and personalty of urban	
municipalities	

You will notice that the rural and urban populations of the district do not exhibit the usual proportionate relation, due to the fact that Winnipeg has become a trading and jobbing centre for the whole of the prairie region of the vest. Handling and storage facilities provided by Winnipeg and the towns and willages of the district are generous in number and capacity. Coreals, beef and all meat products now fall into recognized channels and are marketed with the least possible inconvenience, and with the turnost profit to the producer. As the output of creameries, cheese factories and meat packers increases, export business must reach that point at which the sufficiency of supply insures the highest market price, not always to be obtained in cases where the product is limited in quantity and incapable of supplying the full demand.

LABOUR.

It is probable that the question of labour supply throughout the western country will receive due consideration by the officers of the department, who have no doubt directed their attention to this subject in its widest application. I desire to merely remark that if provision can be made for an addition of several thousands of heads of families of Austrians, from Galicia, to the settlements of these people which have been established upon so thriving and progressive a footing east of Emerson and in the vicinity of Pleasant Home, the labour supply would be increased and the money earned would be applied to the improvements of our own lands. These people are frugal. hardy and extremely industrious, and the progress already made by those of them who have settled in localities in which the natural difficulties of the situation are somewhat excessive, is ample evidence of their value as wealth producers. After seeding in the spring the male head of the family is ready to go out to work at wages for several months, and these families already supply female domestics for service in the urban municipalities. The demand for these domestic servants always exceeds the supply, so that there is not the slightest danger to the cause of labour in general in largely augmenting the number of Austrian settlers from Galicia who have already made their homes here.

DRAINAGE.

Much has been done by the provincial government as well as by the various municipalities in the prosecution of drainage works, and more remains to be done. It is reckoned that the government has expended directly and in association with municipalities, not less than one million dollars, and that the exclusively municipal expenditure on kindred works probably exceeds that aum.

SWAMP LANDS.

The awamp lands already handed over to remunerate the province, to some extent at least, for the expenditure incurred in drainage works is bolleved to have aggregated on June 30 last, about one and a quarter million of acres. These lands are hield for sale by the province at a minimum price of 82 per acre, 10 per cent being payable at the inception of the purchase, and the balance in eight equal successive annual instalments bearing interest at 6 per cent.

HAY LANDS.

As it is quite impracticable for the department to create and maintain reservations of lands which might be roliced upon to supply the hay to even a small proportion of the settlers, I am of opinion that the interests of settlement generally will be advanced by allowing lands which yield more or less hay to fall under the operation of the homestead provisions of the 'Dominion Lands Act.' These lands are not, in the true meaning of the words, valuable for this hay. Their value in that capacity depends upon varying metcorological conditions. There may be an abundant yield of hay in one year and little or none in the next year. The extension of drainage works is rapidly bringing all lands in the district under more or less efficient control, and the time is rapidly approaching when the native hay product must give way to cultivated grasses and folder crops.

WATER POWERS.

A large number of applications for the purchase of land fronting on the Winnipeg river valuable in connection with water povers, have recently been made to this office. The development of these and the eventual application of the same to manufacturing industries, and to public services in Winnipeg and at other points in the province may be looked for a no very distant date. There can be no question as to the value of the results to accrue from such development and application of these powers, whose capacity is practically illimitable.

LAKE MANITOBA DRAINAGE.

The overflow channel under construction at Fairford about completed, is said to answer admirably the purpose of its designers. There is, however, a general misconception of that purpose. It is not the intention to greatly reduce the level of the water, but merely to provide this additional facility to keep the water of the lake at what may be called its normal stage. The lands contiguous to the lake or covered by water under mormal conditions will not be affected as a result of the construction of the Fairford works. Contiguous lands will benefit only by the avoidance of submersion when conditions are favourable to an ahonranal rise in the lake level.

ST. ANDREW'S RAPIDS WORKS.

The benefit to accrue to Winnipeg and to the province at large as far south as Emerson, from the completion of the works now in progress at the St. Andrew's rapids on the Red river is difficult of estimation. It is reakoned that easy communication being thus established between Lake Winnipeg and this eity, the price now paid for cord wood may be reduced by from 50 cents to 81 per cord. As the annual consumption is at present 125,000 cords, and increasing, its results, in the effect upon this one item alone, will assuredly justify the expenditure which is being incurred on a work of such

1-2 EDWARD VII., A. 1902

great public utility. The improvements to navigation will also bring the stone quarries and fisheries of the lake within easy reach of the railways which radiate from the city of Winnipeg, and give a minimum cost for transport. Chasp communication and transport being established between this city and the country contiguous to the lake, will not only affect the development of the cord-wood and, to some extent, the lumber industries, but must calarge and cheapen quarry products and reader a thorough test of the minerals which may be found accessible from Lake Winnipeg much more easy than at present, and if the prospects warrant, their cheap development.

THE PEMBINA VALLEY CEMENT AND LAKE MANITOBA GYPSUM DEPOSITS.

In my last year's report, allusion was made to the project of developing these valuable native deposits. I have now to inform you that on the lands occupied by the Manitoba Union Mining Company (Ltd.) (the N.E. 16-5-7 west lat moridian), works have been crected at a cest of \$80,000, and the company has shipped and marketd 55 carloads of cement. The price per barrel, *f.o.b.*, on cars at Arnold, on the Morris-Brandon branch of the Canadian Northern Railway is \$2, a highly remunerative price to the company so soon as the output lecomes large. At this price the consumer can save probably one-third of the cost of the imported cement. This, considering the diminishing supply and increasing cost of native hupber, is a highly important matter to the farmers of Manitoba, who are thus assured, at moderate cost, of an abundant supply of the set material for the construint on fulldings.

GYPSUM.

The Manitoba Union Mining Company (Ltd.) is also developing its gypsum deposit on a chim of 2,000 acres situate in proximity to the north-east arm of Lake Manitoba, township 31, range 10 used 1st meridian, unsurveyed territory. A mill has been erceted there at a cost of \$15,000, and a steamboat, costing \$5,000, transports the mill products to Westbourne and Dolta, the terminus of the Canadian Northern Railway branch line at the southern end of Lake Manitoba. The plaster produced at the mill is soid to be fully equal to the imported article. Already about \$600 tons have been produced, and 650 tons sold in the Winnipeg market, the price in Winnipeg being \$13 as compared with \$18 for imported plaster of Paris.

I am, sir, your obedient servant,

E. F. STEPHENSON, Agent of Dominion Lands.

No. 17.

REPORT OF THE AGENT AT YORKTON.

Department of the Interior, Dominion Lands Office, Yorkton, Assinibola, July 19, 1901.

The Commissioner of Dominion Lands, Ottawa,

SIR,-I have the honour to submit my report for the year ending June 30, 1901.

The settlement of this district is proceeding with very much the same satisfactory results as last year. Although the number of entries made does not appear so large, it is more indicative of the real settlement, as many of the entrants last year had been in the country and located on lands for two years past, not having made entries on account of want of funds, being mostly Galietians. These people have now come to the front and made entries ; any that remain will, I think, complete entry this fall, when they return from work. Their process on their farms has been very satisfactory, and they are now becoming favourite helpers in farm work. They are well satisfied with the country and seem harow and contented.

The prospect for grain crops all over this district is very bright, and if all goes well, the largest erop ever eut will be the result. The hay erop is very good, while the heavy fall of rain has filled up the sloughs, and the upland will this year yield a far superior quality of hay.

All the foreign settlements surrounding Yorkton are doing extremely well, and have good sebools and elurroles as well as post offices, and form a contented and happy people. The flour mill built last year has been found a great convenience to the distriet, and the ereamery is doing so well that it will double the output of last year. Owing to the light erops, both of hay and grain, last year, the shipment of eattle was not as large as at first estimated, only 5,400 being reported as shipped from this point.

The work of the office has increased over 50 per cent in all but the actual entries, as the following list will show :---

Letters received	4,104
Letters sent	
Homestead entries granted	
Homestead entries eancelled	
Hay permits issued	
Timber permits issued	
Applications for patents received	146

The money received has also increased in the same ratio.

Immigration from the northern United States has been large this year, and there seems to be a promise of still larger immigration next year, as those who return for their families will give a good report of the country.

I am, sir, your obedient servant.

W. C. DE BALINHARD, Agent of Dominion Lands.

25-i-3

No. 18.

REPORT OF CHIEF INSPECTOR OF SURVEYS.

DEPARTMENT OF THE INTERIOR, CALGARY, ALBERTA, June 30, 1901.

J. G. TURRIFF, Esq.,

Commissioner of Dominion Lands, Ottawa.

SR,--I have the honour to report, through you, for the information of the Minister, on the work performed by me, and other matters, during the past departmental year.

Excepting during a portion of last autumn, when I came west with a view to accompanying Mr. George G. Anderson, C.E., over what was known as the Bow River irrigation scheme, until March 23 last, my time was occupied wholly at Otawa in connection with the railway land grants. The reports on that were from time to time submitted to the department. Owing to contingencies which could not be foreseen at the time the arrangement was entered into, Mr. Anderson was unable to make the inspection last fall, but he commenced on same on April 10 f this year; concluded the field work on June 8; prepared his report in Calgary, and left for home on the 18th ultimo. I accompanied him throughout the entire inspection, and expect within a few days to make a special report concerning such inspection. Since then and up to this date I have been looking into an irrigation proposition south of the Bow. The plans mecessary for a report of the same will at once be prepared and forwarded with such report.

I have, therefore, very little to embody in my annual report, beyond stating that the winter was a very favourable one, and it was fortunate for the stock interests that it was so, as, owing to the very wet autumn of last year, the grass did not ripen ; the result was the pasturage was wretched. This condition, however, was not universal, but it covered territory which carries probably S0 per cent of the range stock of the In Western Assiniboia, however, the grass in nearly every locality Territories. matured fairly well. The result was that stock there came through in good condition, whereas along the Foot hills, and to some considerable distance cast of them in the district of Alberta, the stock came through very poor, which, coupled with a cold, backward spring, caused a very considerable loss-in some cases, a high one. Much of this loss, however, could have been avoided by herding the cattle, as nearly the whole of it was caused by cattle in a weak state miring in soft places, some of which were alkaline bogs or swamps ; the grass showing more growth there than on the ridges. the cattle naturally took to them. The prairie fires played a considerable part also in the loss of stock, in this way, that the grass came up earlier on the burnt places, or rather, owing to the burnt condition the cattle could nibble at it when it was so immature that little or no nourishment existed in it. The result was that cattle would take to it and get weaker day by day, whereas if they could have been kept on the old grass the results would have been much more beneficial.

SHEEP.

It is difficult to understand why the price of mutton remains so high in this country. Mutton has been selling, choice cuts, as high as twenty cents per pound, and as

high as eight cents by the carcass, not high grade at that. It would appear that there were favourable prospects for a very considerable development in sheep in this district.

There are a number of other matters on which it might be desirable to comment, and on which it has been usual for me in my annual reports to do; but the season is no sufficiently advanced to discuss the same with any approach to accuracy, and in others, no doubt other officials will report sufficiently thereon, and with more information generally than is available to me at present.

Respectfully submitted,

WM. PEARCE,

Inspector.

No. 19.

REPORT ON TIMBER, MINERAL, GRAZING AND IRRIGATION.

DEPARTMENT OF THE INTERIOR, OTTAWA, September 4, 1901.

JAMES A. SMART, Esq.,

Deputy Minister of the Interior.

SIR,—I have the honour to submit the twenty-first annual report of the Timber and Mines Branch of the Department of the Interior.

The annexed statements, lettered ' Δ ' and ' B_2 ' show that the revenue derived from timber, grazing, hay and mineral lands from July 1, 1000, to July 1, 1901, exclusive of sales of mineral lands, amounted to 81,341,263.08. The above amount includes the dues received for timber and hay cut on school lands, and rent of those lands for grazing purpose.

Reports received from the Crown Timber Agents at Winnipeg, Calgary and Edmonton, Prince Albert, and New Westminster, showing the revenue collected by them and other information are appended hereto.

For the sake of reference and comparison, statement lettered 'C,' showing by ficeal years the revenue derived from timber, mineral, grazing and hay lands from the year 1872 up to July 1, 1901, not including sales of mineral lands, has been prepared, and will be found at the end of this report.

The statement referred to in the previous paragraph does not include the revenue from school lands, but statement lettered 'B' appended hereto, shows the revenue from this source for the fiscal year 1900-1, and the statement lettered 'D' shows the total revenue up to June 30, 1901.

The total revenue of the Winnipeg Agency for the fiscal year 1900-1 was \$59,155.02.

The price of lumber within the Winnipeg agency was from \$12 to \$17.50 per thousand feet B.M. There are 35 mills in operation within the agency, cutting timber under government licentse.

The revenue received from the British Columbia agency during the fiscal year 1900-1 was \$23,134.70.

Lumber sold at the average price of \$10 per thousand feet B.M.

There are twenty-four mills within the agency operating under license from the Dominion government.

The total amount of dues collected within the Calgary agency during the fiscal year 1900-1 amounted to \$8,570.03.

The price of lumber at Calgary was \$8 to \$17, and at Macleod, \$7 to \$16.

Seven saw-mills were operating within the agency last year under government license.

The total amount of dues collected within the Edmonton agency during the fiscal year amounted to \$10,262,01.

The price of lumber during the year was \$10 to \$12 per thousand feet B.M.

There are five saw-mills in operation within this agency.

The total amount of dues collected within the Prince Albert agency during the year amounted to \$35,759.62.

Lumber sold at Prince Albert at \$15 per thousand feet B.M. There are three saw-mills in this agency cutting timber under license.

Saw-mills returns received at this department give the following quantities of building material as having been manufactured and sold during the year within the six agencies:—

	Manufactured.	Sold.
Sawn lumber	78,773,422 ft. B.M.	67,745,989 ft. B.M.
Shingles	1,355,550	1,382,550
Shingle bolts	5,2333 cords	3,7151 cords
Laths	631,600	929,400

Three hundred and seventy-one licenses to cut timber over a total area of 4,479 200 square miles were prepared. The areas licensed in the province of Manitoba, the four provisional territorial districts, on Dominion lands in the province of British Columbia, and in the Yukon Territory, are as follows:-

	oquare acres
Manitoba	
Alberta	
Assiniboia	
Saskatchewan	
Keewatin	
British Columbia	
Yukon Territory	. 225 ·11

The number of applications received during the year to cut timber was 253; the number of berths granted was 118.

Within the past year forty-three berths were cancelled or relinquished by the owners thereof.

The number of berths under license or authorized to be licensed, in the province of Manitoba and the Territories is 209, and on Dominion lands in the province of British Columbia, 177. In the Yukon Territory, 97 berths have been granted, covering a total area of 225 11 square miles.

The number of berths covered by permits on August 2, 1901, was 129.

Square Miles.

1-2 EDWARD VII., A. 1902

The following statements show the timber limits either licensed or authorized to be licensed within the several Crown timber agencies :---

	License.	Name.	Locality.	Area.
				Sq. Miles.
1	Lease 10	D. E. Sprague Merchants Bank of Canada	Rosseau and Pine rivers	515
2	10	Monohents Bank of Canada	Shell River	413 50
15a	91		Near Whitemouth River.	11 5
15 16	91	D Poss	Noar Whitemonth River	38.1
23	92	J. Hanbury.	Shell River.	50
25a 25	233		Near Whitemonth River	25 25
26a	122	H. B. Mitchell		5
26b 26	122			3
27a	133	J. Hanbury		11.
276	140	J. F. Worley	· · · · · · · · · · · · · · · · · · ·	3.
,48 92	112	V. B. Wadsworth	Little Boggy creek	50
544	113	Wm. Robinson	Bad Throat river	5.
546 551 D	331	Imperial Bank of Canada	To 93 B 19 W 1st M	49. 18
554	124	D. E. Sprague	Tp. 23, R. 19, W. 1st M. Two islands in Whitemouth lake.	2
67, No. 1 67 . 3	196 196	P. McArthur	Two islunds in Whitemouth lake Fairford river	2.
67 n 4	196			13.
67 1 5	196			16-17
67 6 568	196 393	D. E Sprague	Tp. 18, R. 7, E. P. M.	16
571	330	Jas. Shaw.	Tps. 25-26, R. 25, W. P. M.	34
575 578	220 265	D H Harrison	Tps. 22-23, R. 20, W. P. M Tp 23 R 18 W. P. M.	18
581	178	Middleton & Aske	Black Bear island.	16
592 603	174 201	Thomas & Co	Tp. 18, R. 3, E. P. M	4
615	217	F. A. Fairchild	Tp. 18, R. 3, E. P. M. Tps. 18-19, R. 19, Tp. 19, R. 20, W. P. M. Tps. 21-22, R. 21, W. P. M.	
	283	Manage & Alter	W. P. M	6
618 621	270	Wm, Robinson	W. F. M. Tps. 21-22, R. 21, W. P. M. Bad Throat river Between Lake of the Woods and	16
24, No. 1	237	D. E. Sprague	Between Lake of the Woods and Whitemouth river	5
24 " 2	237		wintemouth rive	22
i24 3	237			1 3
i24 4 i24 5	237 237	· · · · · · · · · · · · · · · · · · ·	Tp. 21, R. 21, W. P. M. Tp. 19, R. 18, W. P. M. Lake Winninge. Black River. Stolal river. Swan lake.	3
662	284	Middleton & Aske .	Tp. 21, R. 21, W. P. M	2
670 676	285 263	J. A. Christie	To 19 B 18 W P M	1 2
702	201	J. D. McArthur	Lake Winnipeg	30
716 733	287 338	Wm. Robinson	Black River	11
734	338	r. McArthur	Show river	10
735	338	9		9
736 737	338	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	10
742	248	J. Hanbury	Tp. 30, R. 30, W. P. M.	6 8
745 751	252 290	J. Hanbury	Tp. 30, R. 30, W. P. M	6
752	256	Wm. Peden.	Tp. 20, R. 22, W. P. M	6
754 759	249 286	J. Hanbury. Wm. Robinson. J. Hanbury. Wm. Pelen. S. T. Thomas. J. D. McArthur. Lac du. Bonnet Mining, Dr. veloument & Manufact 'r GC	Tp. 18, R. 3, E. P. M	1 2
761	438	Lac du Bonnet Mining, De		
786	326	velopment & Manufact r'g Co	Tp. 14, R. 11, E. P. M Tps. 21-22, R. 21, W. 1st M	5
795	326 292	J. Hanbury.	1 pe. 21-22. 11. 21, 17. 101 M	3
814	281	T. A. Burrows.	Tps. 31-32-33, R. 22, W. P. M. On east side Lake Winnipeg.	. 15
815 823	294 337	McKenzie, Maun & Co	on east side Lake winnipeg.	+ 50 15

WINNIPEG AGENCY.

WINNIPEG AGENCY Concluded.

Limit.	License.	Name.	Locality.	Area.
255 255 255 255 255 255 255 255 255 255	274 322 334 333 333 332 335 337 335 337 337 347 405 416 429 430 430 430 449 430 440 440 440 440 440	Wue, Federa,, Y. Ma, Arbun,, Lae, du, Bonnet Minnig, De- veloning & Manufacturing C. T., Fulten,, Y., Fulten,, Y., Bullan, M., Manufacturing C. J. B. McArthur,, J. H. McArthur,, J. H. McArthur,, J. H. McArthur,, Y. McArthur,, Y. McArthur,, The Jacob Bonney Minnig, De The Jacob Bonney Minnig, De The Jacob Bonney Minnig, De	$\begin{array}{c} T_{\rm P} 1.6, 8, 11, 8, 12, 8, 2, 9, \\ T_{\rm end}(W_{\rm end}(w_{\rm R}, q_{\rm end}(w_{\rm en$	5 50 1150
			iotal area	1,333.32

EDMONTON AGENCY.

9 Block 5 9 6 4966 7888 7898 7899 863 849 863 844 844 844 844 844 844 845 906 911 928 949 949 955 955 955 955 955 955 955 955	$\begin{array}{c} 15\\ 83\\ 87\\ 296\\ 358\\ 362\\ 358\\ 362\\ 358\\ 362\\ 362\\ 413\\ 443\\ 443\\ 441\\ 447\\ 451\\ 452\\ 452\\ 457\end{array}$	D. R. Fraser Walter & Humberstone U. W. McKenzie U. A. Lose. Bourchier, Gourn & Co. L. Petryson. S. J. Ecoles C. H. Swannon & L. Peterson. W. S. Dernas H. Bowriell. W. S. Dwinnell. H. Bowriell. W. S. Dwinnell.	Welf river.	$\begin{array}{c} 17 50\\ 3.75\\ 50 00\\ 4 00\\ 2 80\\ 3 00\\ 18 00\\ 1 70\\ 2 200\\ 4 00\\ 2 200\\ 4 00\\ 2 00\\ 4 00\\ 2 00\\ 1 00\\ 3 00\\ 1 00\\ 5 33\\ 8 00\\ 1 00\\ $
			Wolf river.	
971	4/565		Saskatchewan river	1 00
972	° 455		Near Pigeon Lake.	9.00
			Total area	102 04

1-2 EDWARD VII., A. 1902

CALGARY AGENCY.

Limit.	License.	Name.	Locality.	Area,
				Sq. m.
	30	7 NY 11		4.00
34 36 No. 1	30	Jas. Walker	Bow river. S. Fork of Old Man river	3.00
	99	Feter McLaren	S. FORK OF Old Man river	5.25
36 n 2 36 n 3	99	H	и и н. н. и и н.	
36	10	· · · · · · · · · · · · · · · · · · ·	H H	3.75
36 . 5	99		н н н н) н н н н	10.00
36 . 6	99			2.80
36 . 7	99			7:40
36 . 8	99			1.20
36 9	99		Middle Fords of Old Mars shows	1 44 5 67
36 10	99			
36 . 11	99		0 0 0 0	3:90
36a 1	117		Middle Fork of Old Man river	28.13
36a 2	117			8.25
36a 3	117			8.75
36a 4	117			2.73
36a 5	117			2.25
80	45	North-west Coal and Naviga		
		tion Co.	Near South Fork Old Man river.	50.00
105	39	Alberta Lumber Co		47:00
106	36			47.75
179	86	Peter McLaren .	Middle Fork of Old Man river	50.00
185	37	Alberta Lumber Co.		48.75
186	38			47.70
199	46		S. S. Clearwater lake	51.24
200	46		and the second s	50.21
203	46			50.40
204	46		0 0 11 11 11 11 11 11 11 11 11 11 11 11	49.91
242	-46		Red Deer river	50.04
252	115	Peter McLaren	Red Deer river	17.70
253	114	Chas. Beck		11.76
292	183	Chas. Beck.	North Fork High river.	47.08
318e	88	Eau Claire and Bow River	n	
	88	Lumber Co	Bow river	16:50 16:00
318F				
3181	88	0 0 0 0		6:00
3131	88			5.63
318J	88 88		0	5°63 7°50
417 g 425	50	Alberta Lumber Co	S S Cleanuater John	35-25
420 455	176	Poter McLaren	S. S. Clearwater lake Red Deer river .	48 93
468	110	Jas, Quinn	Little Red river	50.00
552	319	La Corporation Episcopale Ca		-00 00
005	010	tholique Romaine de St Al		
		hert and Mgr Goupart	Cascade river	5:00
559	128		Near S. F. of Sheep river.	3:41
569	170	J. Lineham	S Fork Sheep river	21.33
573	Not issued.	Dent of Indian Affairs	Tn 9 R 3 W 4th M	11:35
579	213			33.33
582	Not issued.	Dept. of Indian Affairs	Belly river Tp. 1, Rgs. 27, 28, W. 4th M S. Fork, Sheep river N. Fork, Old Man river	6:50
583	145	R. G. Belvidere.	Tp. 1, Rgs. 27, 28, W. 4th M.	4.00
594	190	John Lineham	S. Fork, Sheep river.	6.13
606	206	A. W. Gillingham	N. Fork, Old Man river	3.00
784	250			1.00
884	363	Indian Dept	Tps, 9 & 10, Rgs, 29 & 30, W. 4th M.	2.00
885	373	Lynn & Stewart	Tps. 9 & 10, Rgs. 29 & 30, W. 4th M. Tp. 35, Rge. 4, W. 5th M. Tp. 10, Rge. 30, W. 4th M.	1.00
886	364	Indian Dept	Tp. 10, Rgc. 30, W. 4th M.	2.00
984	479	R. L. Findlay.	Tp. 14, Rge. 1, W. 5th M	0.20
			Total area	1,014.00

ŧ

PRINCE ALBERT AGENCY

Limit.	License.	Name.	Locality.	Area.
9 Block 1 9 9 Constant 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 13 36 30 30 30 30 30 2255 2255 2255 2255 2255	Pas Fand of Indiana Jas Sanderson Geo, Burn Jas Sanderson Geo, Burn Jas Sanderson W. Cowan J. W. Shomoo & Co W. Cowan & Co J. H. Sanderson Morre & Sanderson Morre & Sanderson Morre & Sanderson J. H. Sanderson Morre & Sanderson J. H. Sanderson K. J. H. Sanderson K. J. H. Sanderson K. H. Moore Moore & Sanderson	Red river Xear Junction Rabitat creek Little Hel river Start Little The Start West red Naith Channel, Shory Jako. The Start Start Start Shory Jako. The Start Start Start Shory Jako. The Start Start Shory Jako. The Start Star	$^{\circ}$ 0.00 $^{\circ}$ 2.10 $^{\circ}$ 2.11 $^{\circ}$ 2.12 $^{\circ}$ 2.10 $^{\circ}$ 2.10 $^{\circ$
			Total area	727 035

A	140	17 1 1 1 1 1 1 1 1 1 1 1	
Aa, Bb	119	Yorkshire Guarantee & Securi-	
		ties Corporation (Ltd). South of Cheam Indian Reserve	680 acres
В	102	British Columbia Mills, Timber	
		& Trading Co	3,480
H	108	British Columbia Mills, Timber	
		& Trading Co Tp. 2, lot 33, Bk 5, R. 2, W, 6th M.	960
K	107	Grant & Kerr	360
L	109	British Columbia Mills, Timber	
		and Trading Co. Tp. 7, New West	640
M	159	Grant & Kerr Stave River	-41
0		British Columbia Mills, Timber	
		& Trading Co Tp. 39 North. Dist. New West	960 -
0	141	Grant & Kerr, Tp. 1, Dist. New West	180
QR	120	The British Columbia Tunber &	
	1000	Electric Co. Tp. 2, rgs. 1, 2, Dist. New West	2.720
т	191	The British Columbia Mills,	611.00
	1-1	Timber & Trading Co.	160
W			
	138	Dobbie, Davidson & Strathy Tps. 4, 2, 12, Dist. New Vest	10,704
X	197	Thomas L. Briggs Tp. 15, East of Coast M	4,800

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

NEW WESTMINSTER AGENCY .- Continued.

Limit.	License.	Name.	Locality.	Area.
Y No. 1	182	Mossom Boyd Co	Upper and Lower Lillooet lakes .	3:20sq.m
Y No. 2	182			2.50
Z No. 1	154	Davidson, Henderson & Strathy	Tp. 15, East of Coast M.	7:22
Y No. 2 Z No. 1 Z No. 2	154	10 II II	Tp. 15, East of Coast M. Kicking Horse river. Kicking Horse river and Beaver	5175
3	103	W. C. Wells	Kicking Horse river.	2 00 .
5	134	J. R. & T. S. Reilly	Kicking Horse river and Beaver	
14	204	Columbia River Lumber Co	Columbia river	49 23
15	204	10 U U U		42.30
16	200			15.55
17	241	0 0		16°50 n
19	370	THE A T T	The second secon	25 00
20	142	T. & J. Long.	Blue water river	34 00 "
27 29	130	Columbia River Lumber Co.	Columbia river.	1.00 "
29	202 257	W. C. Wells.	Tp 20, K. 19, W. 5th Mt.	13.16
30 32	204	Commbia River Lumber Co	Columbia river	4.40 0
33 No. 1	391	E H Heave & Co	Stave River and Stave lake	1 094
29 Y., 9	146	Promotto Saw Will Co	Tr 25, R. 19, W. 5th M. Columbia river Illocillewact river. Stave River and Stave lake	2 \$02.20
33 No. 2 33 No. 3 33 No. 4	146	E H Heave & Co		349
33 No. 4	1.02	1. 11. Heaps to CO	20 B	155
36	199	Thomas W. Patterson.	Tp. 39. G. I. Dist. New West	1.371-20
38	169	Wm, Caldwell	Th. 26 G. L. Diet, New West, Couldmann of Gold ereck. Story eresk. Tay, 4, 5, R. 28, W. 601 M. Biks, 12, 3, 4, Province Pirtlah G. Lilloot river. Backwate creek. Near James Lake.	14'50 sq. m
40 No. 1	371	Columbia River Lumber Co.	Stony creek	6.25
40 No. 2	371			4.00 "
43	162	E. A. Wilmott & Co.	Tps. 4, 5, R. 28, W. 6th M	1.685 acres
44 No. 1	167	Brunette Saw Mill Co.	Bks. 12, 3, 4, Province British C.	396 70
44 No. 2	167	0 0		570
44 No. 3	167		10 H -	500 m
44 No. 4	167			659 81
44 No. 5	221		Lillooet river	160
45	389	Columbia River Lumber Co		24 50 sq. m
47	205	0 0 10	Blackwater creek.	22.66
48 No. 1	345	J. E. Murphy	Near James Lake.	
48 No. 2 48 No. 3 48 No. 4 48 No. 4 48 No. 5	345	10 A A A A A A A A A A A A A A A A A A A	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
48 No. 3	34 .			3,537.88
48 No. 4	345	All and a second second	10 A	
48 No. 5	345		and the second s	
49	133	Stein & Robinson	Tp. 23, R. 2, W. 6th M	360 H
50c	155	McLaren & Ross	Chilliwack river	10°50 sq. m
51 52	325	Grant & Kerr.	Tp. 2, G. 2, N. West dist.	120 acres
02 35	107	Hastings Shingle Manufact. Co.	Tp. 33, New West dist.	810.30
	322 150	Huntingdon Lamber Co	Tp. 23, R. 2, W. 6th M. Chilliwack river. Tp. 2, G. 2, N. West dist. Tp. 39, New West dist. Tps. 19, 22, 25, East Coast M. Tp. 15, District N. West.	15,900
57 50	130	Thos, W. Patterson.	Tp. 16, District N. West. Tp. 39, Dist. N. West.	480
	157	Yorkshire Guarantee & Securi-	The ord Type: ". Mest	460 0
10	105	ties Corporation (Ltd)	Tps 2 3 E 29 W 6th M	130 33
63 No. 1	194	Harrison River Mills Co.	Tps. 2, 3, R. 29, W. 6th M. Harrison lake Ulecillewate river. Wait-a-bit creek Sec. 21, Tp. 20, R. 10, W. 6th M. Hospital creek. Tp. 38, W. Coast M. Columbia river Tps. 22, rgs. 10, 11, W. 6th M. Salnon Arm of Shuswap lake Columbia river.	960 64
64	187	Shuswan Milling Co.	Illecillewaet river	947 20 .
65	305	Columbia River Lumber Co	Wait-a-bit creek	27 so. m
66	180		Sec. 24, Tp. 20, R. 10, W. 6th M.,	542 acres
67	320	Chas. J. Carrière	Hospital creek.	960
69	149	G. W. Phipps	Tp. 39, W. Coast M	354
70	321	Columbia River Lumber Co	Columbia river	.50 sq. m
71	163		Tps. 22, rgs. 10, 11, W. 6th M	2,560 acres
72	186		Salmon Arm of Shuswap lake Columbia river	4 79 sq. m
73	306		Columbia river	$\frac{18}{27}$
74	307	T. J. Hammill	and the second second second	27 .
77	148	T. J. Hammill	Tp. 39, Dist. New West	384 acres
78	165	Columbia River Lumber Co	1 p. 21, R. 10, W. 6th M	978
79	198	T. L. Briggs.	Tps. 3, 4, rgs. 3, 4, W. 7th M.	2,240 .
80	172	T. J. Hammill	Tp. 4, K. 4, W. 6th M.	149
81	342	Huntingdon Lumber Co.	P. 10, New West.	960 0
83a	356	McLaren Koss Lumber Co	Ranway Belt, B.C	362
837 86	110	British Columbia Mills & Tra-	Columbia river Tp. 39, Dist. New West Tp. 21, R. 10, W. 6th M. Tps. 3, 4, rgs. 3, 4, W. 7th M. Tp. 4, R. 4, W. 6th M. Tp. 16, New West Railway Belt, B.C.	080
86	410	ding Communa Mills & Tra-	New West district	420
	262	ding Co. British Columbia Mills & Tra-	new mest district	420 -
	202	ding Co	Tp. 2, 38, R. 1, W	640 -
		amp corr	The stand are study of the stand	010 1

NEW WESTMINSTER AGENCY Continued.

Limit.	License.	Name.	Locality.	Area
88	185	Genette Bros	Columbia river Tributary Harrison I. Tp. 39, W. Coast M Stave river	4 22aq. m
91	191	Martin Bros	Tributary Harrison I.	I
94	210	Thos. W. Patterson.	Tp. 39, W. Coast M	480 acres
96 98	188	E. H. Heaps & Co	Stave river	640 -
98	411	british Columna Mins & Ira-	ST 01 . T 1	400
99	419	British Columbia Mills & Tra-	and other since	
		ding Co	Tp. 41, New West, dist	1.25 sq. m
101	198	T. L. Briggs	Tps. 3, 4, W. 7th M	160 acres
103	189	Grant & Kerr.	Stave river	163
105 106	308	Columbia River Lumber Co	Columbia river	1 950 a gross
106	392	H. R. Stephen	To 20 Dist New West	4, our lieres
111	911	Thus, w. Tatterson	The partition rice were record	640
112	335	The Fred Robinson Lumber Co.	Columbia river	3sp. m
113	334			S
114	297	Genelle Bros		9
116	329	Daniel Robinson	Beaver river	1
117	328		Columbia siver	4 0
118	919	Columbia River Lumber Co	Salmon arm of Shuswan lake	393 acres
123	268	The Fred Rohinson Lumber Co.	Tp. 23, R. 2, W. 6th M	240 .
125	323	Brunette Saw Mill Co.	Nur 30499 Lake	530
127	278	Genelle Bros	Columbia river	1,920
128	318	n	m on D to 12 Oct 11	0.100
129 134	2/9	Peter Genelle & Co.	T ₁ , 22, K. 10, W. 0th M	176
134	317	I W McRau	Tp. 22, R. 10, W. 6th M Tp. 22, R. 10, W. 6th M Tp. 18, E. of Coast M . Tp. 24, R. 8, W. 5th M	985
140		Joseph Genetle	Tp. 24, R. 8, W. 5th M	960 0
144	314	Harrison River Mills Timber &		
		Trading Co	Harrison lake	216
145 148	315	115 - Han Han - H	Passes Jake	210
148	203	I P Wron	Stave lake	320
150	200	The Fred Robinson Lumber Co	Fish river and Covd creek	1.920
153	299			320
154	300			\$20
155	301		Chillion and since	640 .
1.59	309	Albert McLaren	Childweyuk river .	600
160	310			720
161	312			560
162	313			410
163	314	a. "	m on 11 10 11 11 11	320
171 173	260	Shuswap Milling Co.	The Serie Series of Markowski Markow	90 acres
176	250	British Columbia Mills Timbe	$\label{eq:response} \begin{split} T_{T}^{*} & 2, R, \mathcal{B}, W, \mbox{ out } M, \\ Could hall rive \\ Could hall rive \\ W, \mbox{ out } M, \mbox{ out } M, \mbox{ out } M, \\ Columbia rive \\ W, \mbox{ out } M, \mbox{ out } M, \mbox{ out } M, \\ Columbia rive \\ W, \mbox{ out } M, \mbox{ out } M, \mbox{ out } M, \\ Columbia rive \\ W, \mbox{ out } M, \mbox{ out } M, \mbox{ out } M, \\ Columbia rive \\ W, \mbox{ out } M, \mbox{ out } M, \mbox{ out } M, \mbox{ out } M, \\ T, \mbox{ out } M, ou$	
110	201	and Trading Co	Tp. 1, W. of the coast M.	480
177	327	Pacific Coast Lumber Co .	Coquhalla river	1,038
185	276	E. H. Heaps & Co	Tp. 4, ranges 2 & 3, W. 7th M	582
186 205	27.5	Peter Genelle & Co	Columola river	1.457
206	146	Wm McKauzie		6 50 so m
207	339	F. Robinson		4 25
209	357	G. W. Phipps.	. In Tp. 39, W. C. W	307 acres.
213	348	D. J. Campbell	. On North Arm Burrard Inlet.	950
216	351	Grant & Kerr	On Stave River	- 1294 B
217 223	303	S. Edge	In 10. 12, 15, C. M	640
205	300	P Ryan	In To. 25, R. 28, W. 5th M.	3 \$75 sq 10
227	368	Harrison River Mills Timber	1	
		Trading Co	In Tp. 3 R. 30, W. 6th M	SD acres.
228	374	Grant & Kerr V	Near North Arm Burrard Iulet	731
231	375	Columbia River Lumber Co.	In Tp. 23, R. 18, W. 5th M.	1 map m
232 233	376	D. Dura	In Tp. 20, K. 20, W. oth M	23 040 acres
233	319	F. Ryan	In To 1 W C. M.	140
235	469	P. Ryan	In To. 25, R. 28 W. 5th M.,	6 75 -9 11
236	403	T. Allen	¹ In Tp. 3 R. 30, W. 6th M. Near North Arm Burrard Inlet In Tp. 23, R. 18, W. 5th M. In Tp. 25, R. 29, W. 5th M. (D) west side of Adams Laske In Tp. 1, W. C. M. In Tp. 25, R. 28 W. 5th M. On east side of Pitt Laske	160 acres.

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

NEW WESTMINSTER AGENCY-Concluded.

		Name.	Locality.	Area.
237	394	P. Ryan	Near S. boundary of R'y belt.	35.00 sq.;
238	395			15.00 .
239	396	Columbia River Lumber Co	Shuswap Lake	35:00
240	397	P. Ryan.		20:00
241	398	Columbia River Lumber Co	Seymour Arm. Shuswan Lake	15:00
242	399		Tp. 21, R. 11, W. 6th M.	9.87
243	-400	P. Ryan	Tp. 24, R. 4, W. 6th M Tp. 24, R. 5, W. 6th M	20.22
244	401	Columbia River Lumber Co	Tp. 24, R. 5, W. 6th M	25.00 "
245	402		Tp. 23, R. 6, W. 5th M. Burrard Iulet	21.13 "
246	404	K. Mikuni	Burrard Iulet	473.25 aer
248	406	The Harrison River Mills Trad-		
249	100	ing & Lumber Co	Tp. 3, R. 30, W. 6th M.	123.00 "
249 250	408	The Fred Robinson Lumber Co.	Columbia River	10.00 "
250	414 429	Yorkshire Guarantee & Secur-	Tp. 21, R, 10, W. 6th M.	1.13 sq.
201	420		Harrison Lake	3,520 acr
253	423	P Ryan	To 95 D 98 W 5th M	22 44 sq
254	424	Harrison River Mille Timber &	Tp. 25, R. 28, W. 5th M.	pe rist
201	424	Trading Co	Chehalis Creek	640 act
255	425	Columbia River Lumber Co	Tp. 25, R. 21, W. 6th M .	0.87 sq.
256	426	Columbia Hitter Dunioer Co	Tp. 23, R. 18, W. 5th M .	1.25 .
257	427			0.75
258	428			1.75
259	431		Tp. 16, E. C. M.	0.50
260	436		Tp. 23, R. 18, W. 5th M.	0.75
261	437		Tp. 16, E. C. M Tp. 23, R. 18, W. 5th M	0.30 "
262	435			0.22
263	433			
			Adams Lake	18.00 "
264	443	Harrison River Mills Timber &		
		Trading Co	Chehalis Creek	427 act
265	-475	E. O. Patterson	Pitt Lake	420
266	474	and the second concerns	Stave Lake	320 "
268	460	E. H. Heaps & Co	Stave Lake	960
269	-466	Jas. C. Shields	Lillooet Lake	120 "
270 271	473	G. W. Phipps & G. E. Farrer.	Burrard Inlet	320 "
271 272	470 471	Harrison River Mills Timber &	Tp. 25, R. 27, W. 5th M	7:38 sq.1
212	471	Teading Co.	Chehalis Creek.	1.109 act
273	477	C F Farmer	Burrard Inlet	1,105 aer 160
273	481	I Duncen	Burrard Inlet Tp. 3, R. 29, W. 6th M.	95

YUKON TERRITORY.

T. B. No.	Name.	Locality.	Area,
			Sq. m.
1	D. K. Campbell.	At the junction of the Lewes river with the Teslin	
2		At the junction of McClintock creek with Lake	5.00
9		Marsh At the junction of the Pelly and Yukon rivers	5:00
3 4		At the junction of the Lewes river with the Teslin	
6		river. On west side of Lewes river, at its junction with	5.00
		Lake Labarge.	5.00
7	· · · · · · · · · · · · · · · · · · ·	On east side of Lewes river, at its junction with Lake Labarge.	5:00
8 9		Windy arm, Tagish lake.	5:00
10	A. S. Kerry, A. W. Stevenson & Geo. A. Drum-	· · · · · · · · · · · · · · · · · · ·	0.00
11	mond.	On a creek tributary of Lake Labarge Klondike river	5:00

1

YUKON TERRITORY Continued.

T. B. No.	Name.	Locality.	Ares
			Sq. 1
	The Canadian Yukon Lumber Co	Tomas along	
14a	The Canadian Tinkon Lamber Co .	On Lowes river	5 00 2 00 3 00
146		On Stewart river	3 14
15		Stewart river.	5 (8
16		Lake creek	5100
17		Stewart river.	5.00
18 19		Rosebud creek	
20		Independence criek Stewart river	5 QC 5 QC
20		Stewart river. On wet side of Takn arm, Tagish lake bewes river Glandike river. On left lank of the Ytkon river. On Leves river, near Yive Finger rapids.	5 00
	A. E. Philp.	On west side of Taku arm, Tagish lake	5.00
23	The Canadian Yukon Lumber Co	Lewes river	3.50
24	The Kerry Canadian Mill Co	On east side of Tagish lake	2 50
25	J. W. Boyle	Klondike river.	5.00
		and the second	5.08
27 28	Richard Davenport.	On left bank of the Yukon river	1.00
	Bonin et al. F. Swanson	Sixty Mile sizes	1 04
	F. Swanson The Yukon Saw Mill Co	On left hank of the Yukon river. On Lewise river, may Five Finger rapids. Nisty Mile river. Yukon river Yukon river On a creck tributary of West arm of Lake Benner Stewart river.	1 0
32			1.0
33	J. J. Heney & Wm. Stewart.	Yukon river and Indian river	6.0
34	D. H. Partridge	On a creek tributary of West arm of Lake Bennet:	. 1.0
		Stewart river On south side of Stewart river	4.04
37		Stewart river. On a outh side of Stewart river. On a creek tributary of Lake Bennett On north side of the Stewart river, On a creek tributary of Lake Bennett. Stewart river. Yukon river.	4 00
38		On a creek tributary of Lake Bennett	5.00
19	F M Dettenhuw	On a small tributary of Lake Reanott	5.00
42	A MaRao	Stowart siver	1.0
71	Dawson Electric Light & Power Co	Vukon river	1.0
46 .	Jas. A. Ritchie.		1.0
		Lewes river	1:04
50	C. A. Macomber. Harper & Ladue	Lewes river On Yukon river. Yukon river. Lake Tagish	1 00
51	Harper & Ladue	Yukou river	5 06
52 53	The Kerry Canadian Mill Co	Lake Tagish.	1 00
54	J. D. Marsh	Lake Tagish	1.50
55	D. A. Mattleson	Yukon river	1 00
56	J. B. Marsh D. A. Matheson. F. C. Wolfe The Joseph Ladne Gold Mining &	Lewes river.	1 18
37	The Joseph Ladne Gold Mining &		
		Stewart river.	1 00 1 00 2 50 1 00
58		And Market and Andreas and A	1 04
59	The Canadian Yukon Lumber Co Thompson McNeil	Yukon river.	2.50
60 61	Thompson-McNeil The Joseph Ladue Gold Mining &		1 00
DI	The Joseph Ladue Gold Mining &		1.54
62	Maitland Karay	Laway river	1.0
63		Lewes river	1.00
64	Development Co. of Yukon		
6.0	Klondike Mills Co	Yukon river	1 00
66	Yukon Saw Mills Co		5 614
67	McNabb & Hatheway Ruth Howard, Yukon Saw Mill Company,	a the second sec	1.00
68 69	Ruth Howard,	Crooked creek Moosehide creek	1 00
	Yukon Saw Mill Company. C. Henry	Lewes river	1 0
71	Yukon Saw Mill Company	Pelly river.	1 (8
71 72 73	a a a	Lewesriver	1 0
73			1 1 0
74	A. Larose,	A tributary of the Lewes river	1 0
75	Ruth Howard	Stewart river.	1 1 0
	S. B. Reynolds	Yukon river	1.00
77	No. and the state of the second second second		1.08
78	North American Transportation &	Carhsle creek.	2.00
79	Trading Co Delia M. Coolidge.	Yukon river	2 14
80	M. King.	Lake Bennett	1 18
81	The Upper Yukon Consolidated Co-	Taku arm, Lake Tagisl	1.00
83	R. Palmer.	Lake Bennett	1 00
	Yukon Saw Mill Co.	Tributary Lewes river	3.00

1-2 EDWARD VII., A. 1902

YUKON TERRITORY-Concluded.

T. B. No.	Name.	Locality.	Area.
			Sq. m.
85	The Joseph Ladue Gold Mining & Development Co	Value since	1.00
86		Yukon river	1.00
	The Joseph Ladue Gold Mining &		1 00
	Development Co	At junction of Yukon and White rivers	1.00
88	C. E. Miller.	Lewes river	1.00
89	The Joseph Ladue Gold Mining & Development Co	Yukon river	1:00
90	The Joseph Ladue Gold Mining &	I ukon fivet	1 60
	Development Co	Stewart river	1.00
91	The Joseph Ladue Gold Mining &		
0.2	Development Co	Pelly river Tributary of the Lewes river.	1:00
92	The Joseph Ladue Gold Mining &	Thoutary of the Lewes river.	2.00
00		Yukon river	1:00
94	Yukon Saw Mill Co	Pelly river	1.00
95	and a start a start and a start and	We have a second second provide the second sec	1.00
96	The Joseph Ladue Gold Mining & Development Co.	Yukon river.	1.00
97	The Joseph Ladue Gold Mining &		1 00
	Development Co	Stewart river	1.00
98	The Joseph Ladue Gold Mining &		
99	Development Co The Joseph Ladue Gold Mining &	Ballarat creek	1.00
99	The Joseph Ladue Gold Mining & Development Co	Vukon river	1:00
100	Klondike Mills Co		1.00
101	0 0 0 0.000	On a tributary of the Yukon river	1.00
102	The Canadian Yukon Lumber Co	Yukon river	1.00
103	Klondike Mill Co North American Transportation &	Selwyn river	1.00
104	Trading Co.	Cliff creek	3.11
	D. H. Hume	Lake Labarge	1.00
106	Alexander Wilson	Ou a tributary of the Yukon rive	1.00
		Total area	005:11
		Total area	225.11

1

TIMBER ON DOMINION LANDS IN MANITOBA, THE NORTH-WEST TERRITORIES, AND WITHIN THE RAILWAY BELT IN THE PROVINCE OF BRITISH COLUMBIA.

Licenses.

A license to cut timber can be acquired only at public competition. A rental of \$\$ per square mile is charged for all timber berths excepting those situated west of Yale, in the province of British Columbia, for which the rental is at the rate of 5 cents per acre per square.

In addition to the rental, dues at the following rates are charged :---

Sawn lumber, 50 cents per thousand feet B.M.

Railway ties, six and eight feet long, 11 and 13 cents each.

Shingle bolts, 25 cents a cord.

All other products, 5 per cent on the sales.

A license is issued as soon as a berth is granted, but in unsurveyed territory no timber can be cut on the berth until the licensee has made a survey thereof.

Permits.

Permits to cut timber are also granted at public compctition, except in the case of actual settlers, who require the timber for their own usc.

Settlers and others may also obtain permits to cut up to 100 cords of wood for sale without competition.

The dues payable under a permit are from \$1.50 to \$3 per thousand feet B.M., for square timber ; from $\frac{1}{2}$ to $1\frac{1}{2}$ cents per lineal foot for building logs ; from $12\frac{1}{2}$ to 25cents per cord for wood ; 1 cent for fence posts ; 3 cents for railway ties, and 20 cents per thousand for shingles.

Homesteaders having no timber of their own are entitled to a permit free of dues to cut the following quantities :--

3,000 lineal feet of building logs, not to exceed 12 inches at butt end. If the timber is cut from dry trees 3,000 lineal feet of any diameter may be taken.

400 roof poles.

500 fence posts.

2,000 fence rails.

Homestcaders and all bona fide settlers whose farms may not have thereon a supply of timber, or who are not in possession of wood lots or other timbered lands, will be granted a free permit to take and cut dry timber for their own use on their farms for fuel and feneing.

A permit fee of 25 cents in each case is charged.

YUKON TERRITORY.

Licenses.

A license to cut timber on an area not exceeding five square miles in the above territory may be granted to the first applicant therefor upon payment of a bonus of not less than \$250 per square mile, but not more than five such berths will be granted to one individual or company, nuless it can be shown to the satisfaction of the Commissioner of the Yukon Territory that an applicant requires additional timber for manufacturing purposes at the mill or mills which he has creted.

The licenses shall cause a survey to be made of the borth, when called upon by the Minister of the Interior to do so, and shall creet a sawnill in connection therewith within a certain period to be fixed by the Minister of the Interior, and shall pay a stumpage of 22 per thousand feet B.M. on the sales of the lumber manufactured from the timber cut, also dues at the rate of 50 cents per cord for convexod, six cents each for ties, and ten per cent of all sales of all other products of the berth.

1-2 EDWARD VIT., A. 1902

Permits.

Permits to cut cordwood and ties in the Yukon Territory may be obtained from the Crown timber agent upon payment of a fee of \$5, and dues at the rate of \$0 cents a cord for the former and 6 cents each for the latter.

MINING LANDS OTHER THAN COAL.

During the past fiscal year forty-six entries were granted by the agent of Dominion lands in Manitoba and the North-west Territories.

In the Yukon Territory 24,524 placer claims, 2,793 quartz claims, 16,573 renewals and relocations, and 25,020 assignments of claims were recorded up to July 1, 1901.

The returns for the fiscal year ending June 30, 1901, show that 4,424 entries for placer claims, 1,156 entries for quartz claims, 0,291 renewals and relocations, and 5,569 assignments were recorded during the year. The revenue collected form this source and for fees collected for registering other documents in connection with mining operations, was 8434,653.00

Up to July 1, 1901, 59,449 free miner's certificates were issued, producing a revenue of \$506,168.82. During the fiscal year, 12,511 free miner's certificates were issued, and the revenue derived therefrom was \$125.861.

Agents of Dominion Lands-

Calgary, N.W.T	21
Edmonton, N.W.T.	17
Kamloops, B.C	1
Lethbridge, N.W.T.	3
Winnipeg, Man	18

Agencies within the Yukon Territory-

Dawson	1,517
Dalton Trail	3
Dominion Creek	711
Fort Cudahy	14
Grand Forks 2	3,043
Gold Run	433
Hunker	512
Hootalinqua	93
Selkirk	40
Sulphur Creek	194
Stewart River	198
Tagish	258
Forty-mile	59
Upper Stewart River	13
rs of Customs—	

Atlin	
Montreal	
Vancouver*	24
Victoria	33
Ottawa, Ont., Department of the Interior	198
Rat Portage, Ont., P. H. Austin	29
London, Eng., the High Commissioner's Office	10
	-

Total 12,511

DREDGING.

Leases now in force to dredge for minerals other than coal in the submerged beds of rivers in the Yukon Territory, over 270'00 miles, and for the same purpose in the North-west Territories cover 911'75 miles.

SCHEDULE of Individuals and Companies who have secured dredging leases on certain streams in the Yukon District,

Lease			Number
	Name of Lessee.	Stream.	of
No.			Miles.
23	Michael Guerin	Klondike River	
24	James I Questa	Kiondike Diver	5
25	James J. Guerin	Kiondike River.	5
25	J. M. Guerin. F. E. Devlin.	Kiondike River	5
		Klondike River	5
27	Edmund Guerin	Klondike River	5
40	James J. Guerin	Stewart River	5
41	Mary E. Guerin	Stewart River	5
42	James J. Guerin	Stewart River	Б
48	F. J. White, assignee of F. J. Monroe F. J. White, assignee of F. J. Monroe	Stewart River	5
49	F. J. White, assignee of F. J. Monroe	Stewart River	5
50	F. J. White, assignee of F. J. Monroe	Stewart River	5
51	F. J. White, assignee of F. J. Monroe	Stewart River	5
52	F. J. White, assignee of F. J. Monroe	Stewart River	5
53	F. J. White, assignee of F. J. Monroe	Stewart River	5
	Golden Crown Mining Company-		
140	Assignces of Elizabeth Rogers	Stewart River	5
141	Assignees of Elizabeth Rogers	Stewart River	5
142	Assignees of Elizabeth Rogers	Stewnrt River	5
143	Assignees of Elizabeth Rogers	Stewnrt River	5
144	Assignees of Elizabeth Rogers	Stewart River	5
145	Assignces of Elizabeth Rogers	Stewart River	5
146	Assignees of Jennie E. Smillie	Stewart River	5
147	Assignees of Jennie E. Smillie	Stewart River	5
148	Assignees of Jennie E. Smillie	Stewart River	5
149	Assignees of Jennie E. Smillie	Stewart River	5
150	Assignees of Jennie E. Smillie	Stewart River	5
151	Assignees of Jennie E. Smillie	Stewart River	5
152	Assignees of Lynn T. Leet	Stewart River	5
153	Assignees of Lynn T. Leet	Stewart River	5
154	Assignees of Lynn T. Leet	Stewart River	5
155	Assignees of Lynn T. Leet	Stewart River	5
156	Assignees of Lynn T. Leet	Stewart River	5
157 158	Assignees of Lyan T. Leet	Stewnrt River.	5
158	Assignees of N. C. Smillic	Stewart River	5
160	Assignees of N. C. Smillie	Stewart River	5
160		Stewart River	5
170	Assignces of N. C. Smillie	Stewnrt River Hootalingua River	5
171	F. B. Vrooman, assignee of G. H. Rogers	Hootalingua River	5
171 172	F. B. Vrooman, assignce of G. H. Rogers F. B. Vrooman, assignce of G. H. Rogers	Hootalinqua River	5
173	F. B. Vrooman, assignee of G. H. Rogers F. B. Vrooman, assignee of G. H. Rogers	Hootalingua River.	5
174	F. B. Vrooman, assignee of G. H. Rogers	Hootalingua River	5
175	F. B. Vrooman, assignee of G. H. Rogers F. B. Vrooman, assignee of G. H. Rogers		
110	Lewes River Mining and Dredging Co	Hootniinqua River	5
200	Assignees of J. A. McPherson	Lewes River	5
201	Assignees of J. A. McPherson	Lewes River	5
202	Assignees of J. A. McPherson		5
203	Assignees of J. A. McPherson	Lewes River.	5
204	Assignees of J. A. McPherson	Lewes River.	5
205	Assignees of J. A. McPherson	Lewes River.	5
233	Geo. E. Keith	Stewart River	5
234	Geo. E. Keith	Stewart River	5
235	Geo E Keith	Stewart River	5
236	Goo E Koith	Stewart River	5
273	F Y Holder	Stewart River	5
274	Geo. E. Keith Geo. E. Keith F. X. Halder F. X. Halder	Stewart River	0
		Stewart River	
		Totni number of miles	2.0
		form number of miles	2.0
-			

1

SCHEDULE of Leases to dredge for gold in Rivers, &c., in the North-west Territories.

ease No.	· Name of Lessee.	Stream.	Numb of Miles
		North Saskatchewan River.	30 5
1	G. A. Drolet H. D. Smith	Peace River	5
2		Peace River	0
3 4	Wm. H. Roughsedge. W. P. Scarfe and C. D. Brindly, assig-	Peace River	5
4	nees of Chas. H. Brindty	Peace River	5
5		Ronge River	5
6	Wm. McLaren	Peace River	5
7			5
8		Peace River	
9		Peace River	5
0		Pasce River	5
10		Peace River	5
11	Thomas Black		5 5
12	Thomas Black. G. Ford. Jas. A. Green.		1 5
13		Peace River Peace River	
14		Peace River	
15 16		Bonco River	
17			
20	Geo. Black Isaac Cowie R. H. Lany, assignee of F. W. Klippel		
21	R. H. Lany, assignee of r. W. Rapperter		
22	R. H. Lany, assignee of 1	North Saskatchewan River	
23	 Geo. E. Kelth G. A. Drolet, assignee of N. C. Smillie 	Peace River	
24 25	G. A. Drolet, assignee of N. C. Smillie	Peace River	11
25 26	G. A. Drolet, assignee of N. C. Smillie.	Peace River.	
27	G. A. Drolet, assignee of N. C. Smille. G. A. Drolet, assignee of N. C. Smillie.	Peace River.	
28	G. A. Drolet, assignee of N. C. Smillie G. A. Drolet, assignee of N. C. Smillie	Peace River.	
29	G. A. Drolet, acoigace of an C. Smillie		
30	G. A. Drolet, assignee of N. C. Smillie. G. A. Drolet, assignee of N. C. Smillie.		
31	 G. A. Drolet, assignee of N. C. Smillie. 	Peace River	
32	G. A. Drolet, assignee of N. C. Smillie	Deace River	
33 34	G. A. Drolet, assignee of N. C. Smillie G. A. Drolet, assignee of N. C. Smillie	Peace River	
0.1		North Saskatchewan River	
35	Assignees of Jas. Gibbens		
36	Assignees of Jas. M. Doughassier	North Saskatchewan River	
37	Assignees of Jas. M. Dougnass. Assignees of F. A. Osborne. Assignees of J. A. McDougall. Assignees of R. Secord. Assignees of W. J. Walker.	North Saskatchewan River	
38 39	Assignees of R. Secord	North Saskatchewan River North Saskatchewan River	
40	Assignees of W. J. Walker	North Saskatchewan River	
41	J. H. Gritton		
42			
43			••
-44		North Saskatchewan River	
45		North Saskatchewan River	
41			
48	G. A. Drolet G. A. Drolet	Marth Cockatchewan River	
- 49	G. A. Drolet G. A. Drolet	Month Contratchewan River	
54	G. A. Drolet	Month Sockotchewan River	
5	G. A. Drolet	North Saskatchewan River	
53			1
5			
5		Month Sockatchewan River.	
5		Muddy Creek	
7.	2 J. J. Codville		
7	Chas. R. Tryon 0 I. B. Forbes, assignee of Wm. P. Scarf		
8		. Smoky River	
8	Will, H. Rouguscugette	Smoky River	
	1 Wm. H. Roughsedge	Smoky River Smoky River	
5			
8	6 F. E. Gauthier	Smoky River.	
	W. E. Phin Hume Blake	Little Smoky River	

SCHEDULE of Leases to dredge for gold in Rivers, &c .- Continued.

Lease	Name of Lessee.	Streau.	Number
No.	Name of Lessee.	Streau.	of
			Miles.
		Linkle Courses Discourses	
91 92	A. J. Oliver	Little Smoky River	5
92	W. L. Robertson	Mountain River	5
93	John J. Codviiie	Mountain River	5
94	John Love	Mountain River	5
95	E. M. Roughsedge H. N. Ruttan	Muddy Creek	5
97	Fred. Murray O'Meara	Boundary Creek	5
91	F. C. Robinson	Boundary Creek Boundary Creek	5
99	Wm. Hume Biake	Rat Creek	5.
100	Chas. R. Tryon	Rat Creek	5
101	Wm. L. Robertson	Rat Creek	5
102	Wm. H. Roughsedge	Peace River	5
103	Wm. H. Roughsedge	Peace River	5
104	Wm. H. Roughsedge	Peace River	5
105	Wm. H. Roughsedge	Peace River	5
106	Wm. H. Roughsedge	Peace River	5
107	N. D. Beck	North Saskatchewan River	5
108	The Victoria-Alberta Gold Dredging Syn		5
200	dicate, assignees of Isaac Cowie	North Saskatchewan River	5
109	J. A. Mercier	North Saskatchewan River	5
110	J. A. Mercier	North Saskatchewan River	5
111	J. A. Mercier	North Saskatchewan River	5
112	J. A. Mercier	North Saskatchewan River	5
113	J. A. Mercier	North Saskatchewan River	5
114	E. C. Emery	North Saskatchewan River	5
115	Chas. B. Beck	North Saskatchewan River	5
119	The Victoria-Alberta Gold Dredging Syn-		
	dicate, assignees of I. Cowie	North Saskatchewan River	5
120	Assignees of I. Cowie	North Saskatchewan River	5
121	Assignees of I. Cowie	North Saskatchewan River	5
122	Assignees of I. Cowie	North Saskatchewan River	5
123	The Victoria-Aiberta Gold Dredging		
	Syndicate, assignees of J. C. P. Brown.	North Saskatchewan River	Б
124	Discoverers Finance Corporation (Ltd.).	North Saskatchewan River	5.75
125	N. D. Beck	Peace River	5
126	N. D. Beck	Peace River	5
127	N. D. Beck	Peace River	5
128	N. D. Beck	Peace River	5
129	N. D. Beck	Peace River	5
130	N. D. Beck	Peace River	5
143	Chas. H. Bower	Peace River	5
144	Chas. H. Bower	Peace River	5
145	Chas. H. Bower	Peace River	5
146	Chas. H. Bower	Peace River	5
147	Chas. H. Bower	Peace River	5
166 176	John D. Black E. A. Braithwaite	Peace River North Saksatchewan River	5
177	Ches D Brindly	North Saksatchewan River	5
183	Chas. D. Brindly G. A. Glines	Clear Creek	
184	Albert MacLaren	Peace River	
185	Henry MacLaren	Peace River	5
186	Henry MacLaren		5
187	Henry MacLaren Daniel MacLaren	Peace River	5
188	Daniei MacLaren	Peace River	
189	John A. MacLaren	Battle River	
190	John A. MacLaren	Battle River	
191	Jos. Kavanagh, A. Charette, and D. B.		
	and H. Rochester	Cedar Lake	
192	A. Woods, Jr	North Saskatchewan River	ā
193	A. Woods, Jr	North Saskatchewan River.	
194	Geo. E. Casey	North Saskat hewan River	
195	Geo. E. Casey	North Saskatchewan River	
		North Saskatchewan River	
197	C. F. Hibbert J. G. Tipton J. G. Tipton	North Saskatchewan River	
198	J. G. Tipton	North Saskatchewan River	
199	J. G. Tipton	North Saskatchewan River	
		North Saskatchewan River	
201 202		North Saskatchewan River	
	M. E. Weever	North Saskatchewan River	
2	5-i-41		

SCHEDULE of Leases to dredge for gold in Rivers, &c .- Concluded.

Lease No.	Name of Lessee.	Stream.	Number of Miles.
203	M. E. Weever	North Saskatchewan River	5
203	G. P. Spittal.	North Saskatchewan River	5
205	G. P. Spittal.	North Saskatchewan River	5
206	J. O. Hibbard	North Saskatchewan River	5
207	J. O. Hibbard	North Saskatchewan River	5
208	C. M. Farley	North Saskatchewan River	5
209 210	C. M. Farley M. Johnston	North Saskatchewan River North Saskatchewan River	5
211	M. Johnston	North Saskatchewan River	5
212	E. S. Leetham.	North Saskatchewan River	5
213	Thos. Dunderdale	North Saskatchewan River	5
214	E. A. Walberg	North Saskatchewan River	5
215	E. A. Walberg	North Saskatchewan River	5
216 217	F. H. Markey F. H. Markey	North Saskatchewan River	5
217	Fred. Cook	North Saskatchewan River	5
219	Fred. Cook	North Saskatchewan River	5
220	Thos, Patterson	North Saskatchewan River	5
221	Thos. Patterson	North Saskatchewan River	5
222	R. M. MacLeod	North Saskatchewan River	5
223	R. M. McaLeod	North Saskatchewan River	5
224 225	A. E. Fairbairn	North Saskatchewan River	5
225	H. Hopp.	North Saskatchewan River	5
227	Н. Норр	North Saskatchewan River	5
228	H. Webb	North Saskatchewan River	5
229	H. Webb	North Saskatchewan River	5
230	W. D. Morris	North Saskatchewan River	5
231 232	W. D. Morris W. F. Powell	North Saskatchewan River	5
232	W. F. Powell	North Saskatchewan River	5
234	W. H. McAuliffe	North Saskatchewan River	5
235	W. H. McAuliffe	North Saskatchewan River	5
236	G. H. Rogers	North Saskatchewan River	5
237	G. H. Rogers	North Saskatchewan River	5
238 239	F. Taylor F. Taylor	North Saskatchewan River	5
239	W. H. Hurdman	North Saskatchewan River	5
241	W. H. Hurdman	North Saskatchewan River	5
242	J. H. Higginson	North Saskatchewan River	5
243	J. H. Higginson	North Saskatchewan River	5
244	H. H. Cameron	North Saskatchewan River	5
245	H. H. Cameron	North Saskatchewan River	5
246 247	C. G. Hurdman	North Saskatchewan River	5
248	R A. McCormick	North Saskatchewan River	5
249	R. A. McCormick	North Saskatchewan River	5
250	C. D. Spittal	North Saskatchewan River	5
251	C. D. Spittal	North Saskatchewan River	5
		Total number of miles	911.75
		rotar number of miles	041.10

SCHEDULE of Individuals or Companies to whom Hydraulic Mining Leases have been issued.

Lease No.	Names of Lessees.	Number of miles.	Locality.
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\13\\14\\16\\17\\18\\20\end{array}$	The Klendyler towerment Concession (Ltd.) R. Dengre (R. Anderson, R. Malder, asseption of E. Griffinh, et al. F. M. Halder, K. Malder, asseption of E. Griffinh, et al. F. M. Halder, asseption of the Concession of Mesore, R. N. Mason, E. Bennett, A. The Foune (Yukon K. M. Mason, E. Bennett, A. Dengre (M. W. Kayler, M. M. Mason, E. Bennett, A. Dengre (M. W. Kayler, M. M. Mason, E. Bennett, A. Dengre (M. W. Kayler, M. M. Mason, M. M. Mason, M. M. Mason, M. W. Mason, M. M. Mason, M. M. Mason, M. M. M. M. M. Mason, M. W. Mason, M. M. Mason, M. M. Mason, M.	$2 \cdot 50$ $0 \cdot 68$ $5 \cdot 00$ $2 \cdot 50$ $2 \cdot 50$ $0 \cdot 68$ $1 \cdot 50$ $3 \cdot 33$ $2 \cdot 50$ $3 \cdot 33$ $2 \cdot 50$ $2 \cdot 50$ $5 \cdot 00$ $5 \cdot $	Hunker creek, Bonnan creek, Johann iver, Ancient led of the Stewart river. Domana creek, Bonanaz creek, """" Qarts creek, Runker creek, Soroggie creek, Consiar creek, Khadita twere, Khadita twere, Barteka creek.

The total revenue received for dredging leases in the Yukon Territory up to July 1, 1901, was \$139,655.50, and for the fiscal year, \$2,650. The total revenue received for the rent of the leaseholds in the North-west Territories up to July 1, 1901, was \$20,-202.71, and for the past fiscal year, \$3,000.

The total sum collected up to July 1, 1901, for royalty on the gross output of placer claims in the Yukon Territory, after deducting the exemption allowed by the regulations was 82,192,645.41. Of this amount the sum of \$596,368.03 was collected during the last fiscal year.

The royalty was collected at the following places :-

Office.	Collecting officers.	Amount of	royalty.
Dawson—			
	T. A. Wroughton		58
	P. C. H. Primrose	2,620	54
	W. H. Routledge	1,233	99
	A. E. C. McDonell	33,786	68
Grand Fork.	s—		
	S. Marshall	78,170	56
	J. C. D. Lorimier	48,440	01
	F. L. de Chaumont	28,378	02
	Stanley Hildyard	69,706	78
	C. C. Raven		93
	A. E. C. McDonell		93
	J. R. Patterson	63	63
Gold Run-			
	T. Candle.	10,156	46
	Frank Smith		
	W. S. Jealous		
Hunker—			
	Stanley Hildyard	20.386	47
	P. J. Ryan		2 04
	G. H. Goodall		
Dominion-			
	T. Candle	17,659	79
	C. C. Raven		
	Stanley Hildyard		
Sulphur-			
Suprear—	H. A. Sparrow	11,445	90
	Georges de Beaupin.		
	G. H. Goodall.		
	A. E. C. McDonell		50
	Cortland Starnes		62
	T. Candle		
Hootalingue			
Hootangua	P. C. H. Primrose	0.01	
	r. c. n. rrimrose	80.	L 85
Eureka—	0.1.0		
	С. A. Corneil	4	1 59
	Total	\$592 660	98
	Collected on gold taken from Crown claims		
	and a good tanda arour catoon claims		
	Grand total		8 03

The gold was taken from the following creeks, gulches and hills :-

American Guleh, Adams' Hill, Bonanza Creek, Bear Creek, Big Salmon, Cheechaga Hill, Dominion Creek, Eldorado Creek, Fox Guleh, French Hill, Freuch Ureek, Gold Run Creek, Gold Bottom Creek, Gall Hill, Hunker Creek, Little Skoekann, Last Chance, Monte Christo, Magnet Guleh, Skookann Creek, Sulphur Creek, Trail Creek, Vietoria Creek, Eareka, Livingstone.

MINERALS-BRITISH COLUMBIA.

The previous metals within the railway belt in the province of British Columbia are the property of the province, and the base metals are owned by the government of Canada. All the minerals, however, are administered by the provincial government under the mining laws of that province. This is in accordance with an arrangement between the government of Canada and the provincial government of British Columbia, and ratified by orders of His Excellency the Governor General in Council, dated the Uth and 28th of February, 1800. This agreement may be terminated at any time by either government. Under this agreement 2,443-21 aeres have been transferred to the provincial government, and the total annount received therefor was 87,459-37.

PETROLEUM.

Under authority of an order in council dated August 6, 1898, the Minister of the Interior was authorized to reserve for an applicant 640 acres of land situated south of the Canadian Pacific Railway in the district of Alberta, to prospect thereon for petroleum, and if oil were found in paying quantities, to sell the land to the applicant at the rate of one dollar per acre, with a provision that a royalty of two and one-half per cent upon the šales of the petroleum be paid to the Crown. This order was resended by an order in council dated May 31, 1901, and provision was made that on and after July 1, 1901, all unappropriated Dominion lands in Manitoba, the North-west Territories, and the Yukon Territory, shall be open to prospecting for petroleum by any individual or company desiring to do so ; that should oil in paying quantities be discovered, and should such discovery be established to the satisfaction of the Minister of the Interior, an area not exceeding 640 acres, including and surrounding the land upon which the discovery has been made, will be sold to the person or company making the same, at the rate of \$1 per acres, subject to such royalty as may from time to time be offsecribed by order in council.

QUARTZ REGULATIONS.

The following is a synopsis of the regulations now in force for the disposal of quartz mining elaims on Dominion lands in Manitoba, the North-west Territories and in the Yukon Territory :--

Every person 18 years of age and over, but not under, and every joint stock company holding a free miner's certificate, may obtain an entry for a mining location.

A free mine's certificate is granted for one or more years, not exceeding five, and is not transforable. The fee for a free mine's certificate for an individual is \$10; and for a free miner's certificate to a joint stock company, from \$50 to \$100, according to the nominal capital of the company.

The holder of a free miner's certificate who has discovered mineral in place, may locate a claim not exceeding 1,500 feet long by 1,500 feet long wide, by marking it with two legal posts, one at each end, on the line of the lode, or vein, and marking out the line between them. Upon each post shall be marked the name of the claim, the name of the person locating and the date, and the number of feet lying to the right and left of the line.

The claim shall be recorded with the mining recorder of the district within which it is sinuted within fitteen days after the location thereof, if located within the miles of the office of the recorder ; one additional day shall be allowed for such record for every additional ten miles or fraction thereof. In the event of a claim being more than 100 miles from a recorder's office, and situated where other claims are being located, the free miners, not less than five in number, may appoint a free miner's recorder ; but if the latter fails within three months to notify the nearest government mining recorder of his appointment, the claims which he may have recorded will be cancelled. The for for recording a claim is 85.

An expenditure of not less than \$100 per year must be made on the claim, or a like amount paid to the mining recorder in lieu thereof. When \$500 has been expended, or paid, in connection with the location, the locator may, upon having a survey thereof made and upon complying with certain other requirements, purchase the land at the rate of \$1\$ per acre cash.

A location for the mining of iron and mice not exceeding 160 acres in area may be granted, provided that should any free miner obtain a location which subsequently is found to centain a valuable mineral deposit other than iron or mice, his right in such deposit shall be restricted to the area prescribed for other minerals, and the remainder of the location shall revert to the Creme.

The patent for a mining location shall reserve to the Grown forever whatever royalty may hereafter be imposed on the sales of the products of all mines therein, and the same royalty shall be collected on the sales which may be made prior to the issue of the patent, such royalty, however, not to exceed 5 per cent.

The Minister of the Interior may grant locations for the mining of copper in the Yukon Territory, each location to consist of an area not exceeding 160 acres in a square block. The boundary lines of each location shall be due north and south and due cast and west, and not more than one area shall be granted to any one person within a district of ten miles. The grant of such location for the mining of copper shall not give to the grantee any rights to any other minerals, steep minerals that are combined or mixed with copper or copper ore, but in no case to include free milling gold or silver.

There shall be paid to the government on the gross output of copper from any such location a royalty to be fixed by the Minister of the Interior, not exceeding five per cent on such gross output.

The Minister of the Interior may make such rules and regulations and impose such conditions for ensuring the development of any such area, and securing the payment of the royalty as he may consider necessary in that behalf.

The fee to be paid to the gold commissioner or a mining recorder for an entry for a copper mining location of 160 acres shall be \$20, and the same fee shall be charged for each renewal of an entry.

PLACER MINING IN THE YUKON TERRITORY.

Claims are creek, guldh, river and hill claims, the length on the base line or general direction of creek or river not to exceed 250 feet, the width being from 1,000 to 2,000 feet. Bench claims are 250 feet square.

Claims are marked by two legal posts, one at each end, bearing notices. Entry nust be obtained within ten days if the claim is within ten miles of the recorder's office. One extra day allowed for each additional ten miles or fraction.

The person or company staking a claim, and each person in his or its employment, except house servants, must hold a free miner's certificate.

The discoverer of a new mine is entitled to a claim 1,000 feet in length, and if the party consists of two, 1,500 feet altogether, on the output of which no royalty shall be charged; the rest of the party ordinary claims only.

Entry fce \$15. Royalty at the rate of five per cent charged on the gross output of the claim, with the exception of an annual exemption of \$5,000.

No free miner shall receive a grant of more than one mining chaim on each separate river, creek or gulch, but the same miner may hold any number of claims by purchase, and free miners, not exceeding ten in number, may work their claims in partnership, by filing notice and paying a fee of §2. A claim may be abandoned and another obtained in the same creek, gulch or river by giving notice and paying a fee.

Work must be done on a claim each year to the value of at least \$200, or in lieu of work payment may be made to the Mining Recorder each year for the first three years of \$200, and after that \$400 for each year.

A certificate that work has been done or fee paid, must be obtained each year; if not, the claim shall be deemed to be abandoned, and open to occupation and entry by a free mine.

The boundaries of a claim may be defined absolutely by having a survey made, and publishing notice in the Yukon Official Gazette.

REGULATIONS RE DREDGING, YUKON TERRITORY.

Regulations governing the issue of leases to dredge for minerals in the beds of rivers in the Yukon territory were approved by Order in Council of January 18, 1898. The following is a summary thereof :--

A free miner may obtain a lease of an unbroken extent of five miles of a river, but not more than six such leases will be issued in favour of an individual or company.

The lease shall be for a term of 20 years, renewable from time to time thereafter in the discretion of the Minister of the Interior. The lesses's right of mining and dredging shall be confined to the submerged bed or bars in the river below low water mark, that boundary to be fixed by its position on the 1st day of August, in the year of the date of the lease.

The lease shall be subject to the rights of all persons who have received or who may receive entries for claims under the placer mining regulations.

The lesses shall, within two years from the date of the lesse, have at least one dredge in operation upon the portion of the river lessed to him, not exceeding 30 miles, and shall, within six years from the date of such lesse have one dredge in operation upon each five miles of the river under lesse to him.

The rental is \$100 for the first year for each mile of river leased, and \$10 per mile for each subsequent year.

The lessee shall pay to the Crown a royalty of 10 per cent on the output in excess of \$15,000 for each five miles of river leased; but the lessee under one lease shall not be entitled to the exemption as to royalty where the dredge or dredges used by him have been used in dredging by another lessee, or in any case in respect of more than 30 miles.

The lesses is permitted to cut free of all dues on any land belonging to the Crown such timber as may be necessary for the purposes of his lease, but such permission shall not extend to timber which has been or may be granted to other persons or corporations.

The regulations also provide that the lessee shall not interfere with free navigation of the river nor with the construction of roads, ways, bridges, drains or other public works. It is also provided that the lessee shall not transfer a lease without the consent in writing of the Minister of the Interior.

REGULATIONS RE DREDGING, MANITOBA AND N. W. TERRITORIES.

The regulations now in force provide that a free miner can obtain two leases of five miles each. The lease is for a term of twenty years, renewable from time to time thereafter in the discretion of the Minister of the Interior.

1

The lessee's right is confined to the submerged bed or bars of the river below low water mark, and is also subject to the rights of all persons who have received or who may receive entries for bar diggings or bench claims, except on the Saskatchewan river, where the lessee may dredge to hich water mark on each alternate leasehold.

The holder of more than one dredging lease on the Saskatehewan river, however, has the right to dredge during the period of his leases, between high and low vater mark, on both sides of the river within each alternate five miles of his leaseholds. Such privilege to be subject to the rights of persons operating ber diggings under the provisions of Section 1 of the Regulations governing Placer Mining along the North Saskatchewan river in the North-west Territories, also subject to any entries granted for bench claims under the provisions of the Regulations prior to the date upon which the leaseholds are situated, with a description of the particular alternate five miles upon which he derises to operate between high and low water mark.

The lesses shall have a dredge in operation within one year from the date of the lease for each five miles leased to him. If, however, a company or individual has obtained more than one lease, one dredge for each fifteen miles or portion thereof, will be accepted. The rental is \$10 per annum for each mile leased. The lessee shall pay to the Crown a royalty of 24 per cent on the output after it exceeds \$10,000.

The lease provides that the lessec shall not interfore in any way with the navigation of the river or with any roads, ways, bridges, drains and other public works and improvements now existing or which may be made in the future.

The lease shall provide that any one who has or who may receive entry under the mining regulations, shall be entitled to run tailings into the river at any point thereon, also to mine two feet below the surface of the water at low water mark by putting in wine dams.

Provided that it shall not be lawful for such person to construct a wing dam within one thousand feet from the place where any dredge is being operated nor to obstruct or interfere in any way with the operation of any dredge. This provision shall also apply to lease issued anterior to January 13, 1890.

HYDRAULIC MINING-YUKON TERRITORY.

The following is a synopsis of the regulations in force on January 1, 1900 :---

Locations may have a frontage of from one to five miles, as may be decided by the Minister of the Interior, and a depth of one mile, but where such location is situated in a valley, its depths may extend to the limits of the valley, if so ordered by the Minister of the Interior.

To the person who files in the Department of the Interior at Ottawa an application for a location previously prospected by him, or his authorized agent at the time the location was prospected, a lease will be issued, provided he is the first qualified applicant therefor.

No application for a lease for hydraulic mining purposes shall be entertained for any tract which includes within its boundaries any placer, quartz, or other mining chain under the Regulations in that behalf, or in the immediate vicinity of which placer, quartz or other mining claims have been discovered, or which are being proflubly operated.

It is necessary, however, for the applicant to furnish the department with a report from the Gold Commissioner to the effect that there are no placer, quarts or other mining claims within the location applied for ; that it has been proved to his satisfaction, that the applicant himself, or a person acting for him, was upon and actually prospected prior to the date of the application, the ground included in the location ; and that the ground included in the location is not being worked and is not suitable to be worked under the Regulations governing placer mining.

In addition to the above it will be necessary for an applicant for a lense for hydraulic mining purposes, to file in the Department of the Interior a declaration much by a mining engineer, or other competent person, to the satisfaction of the Minister of the Interior, that the location applied for is suitable for hydraulic mining purposes ; that there is a sufficient quantity of water available with which to successfully operate the location ; and that there is a sufficient dumping ground upon which to deposit the tailings produced from his operations.

Before a lease is issued it is necessary for the applicant to obtain a free miner's certificate and file in the Deviation of the Interior at Ottawa a Dominion land surveyor's plan of the location. The term of the lease is twenty years, and the rental \$150 for each mile of frontage.

The same royalty shall be paid upon the output of gold as is provided or may hereafter be provided in the case of placer claims, except that there shall be excempted from such royalty 825,000 of the annual output, the royalty to be paid in the manner provided in the regulations governing placer mining.

The lessee is required to expend in operating his location not less than \$5,000 during each year from the date of his lease.

The lessee may cut, free of dness, such of the timber on a location as may be necessary for working the same in connection with his mining operations, but not for sail or traffic, and provision is made that the Commissioner of the Yukon Territory may grant a permit to any person to cut and remove from a location cordiwood for his own use when such cordwood cannot otherwise be had within reasonable distance, but no such permit shall concy the right to cut or remove wood required by the lessee for his mining operations.

COAL MINING LANDS.

The number of applications received during the year was 860. The revenue for the year derived from the sale of coal lands was \$101,772. The total area of coal lands sold up to July I, 1901, was 4,049 25 acres, and the total amount received therefor was \$2655,843.

The regulations for the disposal of Dominion lands containing coal issued under the authority of an order in econical of September 17, 1889, as anneaded by subsequent orders, provide that locations of an area not exceeding 320 acres may be reserved for an applicant for a period of sixty days to prospect for coal thereon, upon payment of a fee of \$10, provided an expenditure is made of \$2 per day, and a location of the same or a less area may be sold at the rate of \$10 per acre, cash, unless the coal is antimactive, in which case the price is \$30 per acre, cash.

In order that settlers and others who were living some distance from coal mines which were being worked by persons who purchased the same, either from the Crown or from some other source, might obtain their coal supply, the Governor in Council on November 11, 1896, authorized the issue of permits to mine coal for domestic purposes upon payment of a royalty of tweuty cents per ton for anthrancie coal, fifteen cents per ton for bituminous coal, and ten cents per ton for figurite coal.

Regulations for the issue of the permits were issued under the authority of an order in eouncil dated February 9, 1897.

The regulations provide that the location shall be marked on the ground ; that the frontage thereof shall not exceed three chains, and the length thereof shall not exceed ten chains, nor shall it be less than five chains except where the ground is covered by a prior location; that the applicant shall within thirty days after marking the location file his application with the agent, who shall issue a permit upon receipt of an annual rental of five dollars for a area less than one acre, and for an area of one acre or over at the rate of five dollars an acre; and that returns shall be made monthly to the agent and the royalty paid upon the quantity of coal mined.

In the Yukon Territory all applications for coal lands are to be made to the Crown timber and land agent, who is empowered to sell such lands subject to the approval of the commissioner, at \$20 per acre, eash, if the coal is anthracite, and \$10 per acre, eash, for any other class of coal. A royalty at such rate per ton as may from time to time be specified by the Governor General in Council will be levied and collected on the gross output of the mine. The sale of such land to be subject to the other comditions imposed in the sale of other public lands in the said territory with reference to their maintenance for town site purposes.

IRRIGATION.

During the year sixteen applications for authority to divert water for irrigation and other purposes were received at the department, and fourteen applicants received permission to construct works in accordance with the provisions of the North-west Irrigation Act. Eightr-fwe licenses have been issued up to date to divert water.

The North-west Irrigation Act, under which the applications referred to in the preceding paragraph were made, was assented to by Parliament on June 13, 1898. The provisions of the Act and the regulations made thereunder may be briefly outlined as follows :-

An applicant for permission to construct works to divert a quantity of water execding ten cubic feet per second, shall file with the commissioner of public works at Regina, a memorial setting forth the particulars with respect to the application, and a plan of the proposed work. He shall also give notice of such filing in some newspaper published in the neighbourhood, to be named by the commissioner, not less than once a week for a period of thirty days.

So soon as these conditions have been complied with, the Minister of the Interior authorizes the construction of the works within a certain period. Upon the completion of the works an inspection thereof is made by the chief engineer and surveyor of the Department of Public Works of the Northwest Territories, and upon receipt of a certificate from him that they have been built in accordance with the plans and specifications submitted by the applicant, a license is issued in his favour by the Minister of the Interior upon payment of a fee of \$10. It is, however, necessary that the applicant shall furnish proof that he is the owner of the land to be irrigated, or that he has arranged with the owners thereof to furnish them with water, before a license is issued in his favour.

The applicant for a less quantity of water than ten cubic feet per second is not required to file such full information in relation to his application as the Act prescribes in the case of an applicant who desires a larger quantity of water.

GRAZING.

Leases for grazing purposes are issued for a term of twenty-one years, and the rental is at the rate of two cents an acre per annum, payable half-yearly in advance.

Lands included in a grazing lease may be withdrawn for homestead entry, sale or railway purposes, but no rental is charged on such lands from the date upon which they are withdrawn from the lease.

Grazing leases of school lands in the province of Manitoba may be issued for a term of five years, at an annual rental of six cents an acre, payable in advance, but the department may terminate the lease at any time by giving the lessee three months' notice.

Grazing leases of school lands in the North-west Territories are for a term of five years, and the rental is at the rate of four cents an acre per annum, payable in advance. The department may terminate the lease at any time by giving the lessee three months' notice.

Lessees of school lands are not allowed to break up or cultivate any portion of the lands leased.

A lessee of grazing lands is not entitled to the hay thereon, but he may, upon application to the agent of Dominion Lands, obtain each year the first permit to cut on his leagehold whatever quantity of hay he may require for his own use, free of dues, the department reserving the right to issue permits to other applicants to cut hay thereon.

HAY.

A settler in the vicinity of unoccupied Dominion lands may obtain a lease to cut hay on an area thereof not exceeding forty acres. The term of the lease is five years and the rental twenty-live cents an acre per annum, payable in advance.

Leases for hay purposes of not more than 640 acres and not less than 160 acres of school lands in the North-west Territories may be issued upon payment in advance of the rental at the rate of twenty-five cents per acre per annum.

No one is prevented by the department from eutting hay without a permit, but any one desiring to have a certain area of land containing hay reserved for him may take out a permit covering the same.

Applications for permits to cut hay are made after January 1 in each year to the agent of Dominion lands in whose agency the land containing the hay is situated, and permits are issued on and after April 1 following, upon payment of a fee of fifty cents and the dues hereinafter prescribed.

If before April 1 more than one application is received for a permit covering the same tract of land, the agent, if he cannot arrange a division of the land to suit the applicants may post a notice in his office calling for tenders for the purchase of the bay, and the permit is awarded to the person offering the highest eash bonus.

No hay shall be cut prior to a date to be fixed each year by the Minister of the Interior.

The dues chargeable for permits to actual settlers who require the hay for their own use are ten cents an acre or ten cents per ton, and to all other persons the rates are fifty cents an acre or fifty cents per ton, payable in advance.

GRAZING LANDS.

Total number of leases of Dominion lands, other than school lands, in force on the 22nd day of August, 1901, was 715, covering an area of 605,794 '75 acres.

The following schedule shows the names and addresses of the lessees, the numbers of their ranches, and the area coverd by each lease :--

No.			
	Name.	Address.	Area in
che	Name.	Address.	Acres.
Ranche			
E.			
377	John Cheeseman	Maple Creek, Assa	320.00
378	John R. Craig	Fort Macleod, Alta	2,560.00
380	R. G. Rohinson	Calgary, Alta	800.00
292	Jos. Dugan	Castleavery, Man	347.75
398	John Harvey	Maple Creek, Assa	597.50
401	J. P. Tully	Strathclair, Man.	320.00
402	Chas. E. Stevens	C. of W. B. Williams, Winnipeg, Man.	160.00
405	G. W. Quick	Maple Creek, Assa	2.560.00
408 414	J. S. Rose A. T. Wallace	Battleford, Sask	640.00
419	A. T. Wallace	Maple Creek, Assa	1.260.00
424	John Cumherland	Stella, Pro. Ont.	960.00
426	F. W. Fisher	Lundyville, Man	289.00
427	H. A. Sibbald.	Morley, Alta	320.00
431	H. Couture	Battleford, Sask	1,920.00
432	Henry Hamilton	Walsh Station, Assa	2,240.00
433	Ed. Heffer	Maple Creek, Assa	480.00
439	Wm. R. Ahhott	Maple Creek, Assa	640.00
448	W. B. Elliott	Cochrane, Alta	445.00
451 452	Thos. Monkman	Lethhridge, Alta.	2.400.00
454	Chas. W. May	Saskatoen, Assa	160.00
457	Wm. Turner.	Fletwode, Assa	2,082.00
459	F. J. O'Hara Armstrong	Whitewood, Assa	1,742.00
460	L. Q. Coleman	Morley, Alta	1,286.00
463	Wm. Collie	Erinview, Man	128.00
465	John G. Collins	Jumping Pond, Alta	1,280.00
468	J. W. & F. W. Ings	High River, Alta	720.00
472	R. G. Robinson	Calgary, Alta Maple Creek, Assa	5,742.00
474 479	Edward Fearon	Maple Creek, Assa	160.00
485	John Harvey	Maple Creek, Assa	320.00
486	John Lawrence, sr	Maple Creek, Assa	1,440.00
490	B. Cheeseman	Maple Creek, Assa	640.00
492	Emiel Griesback	Gleichen, Alta	77.00
494	Jas. Martin	Maple Creek, Assa	640.00
500	Thos. Hourd	Fletwode, Assa	1,313.00 1,280.00
503	Donald Gunn	Whitesand, Assa	640.00
505 506	Philip Williams	Maple Creek, Assa	480.00
510	Cornelius Peters.	Chortitz, Man.	160.00
511	Cheeseman Bros	Maple Creek, Assa	640.00
514	Edward Henry.	Fletwode, Assa	1,280.00
516	Wm. Stothers	Maple Creek, Assa	960.096
520	F. J. O'Hara Armstrong	Whitewood, Assa	960-00
521	Jonathan Gillis	Whitewood, Assa	1,853.00
524	Wm. Sinclair	Yorkton, Assa	320-00 640-00
525	Patrick Burns.	Calgary, Alta	619:00
527 528	H. M. Morris-Reade	Carlyle, Assa.	160.00
528 529	John Himsworth.	Whitewood, Assa	610.00
	F. Shackleton.	High View, Assa	647.00
539	C. Kettles	Pincher Creek, Alta	320.00
540	L. C. Brown	London, S.W., 40 Cadogan Place	480.00
543	D. McIntosh	Whitewood, Assa	288.00
546	C. Duck	Chortitz, Man	166.00
547	R. E. Bonar.	High View, Assa	640.00
549	P. Lechat.	Battleford, Sask	640.00 720.00
	G. & J. Blackwood	Whitewood, Assa Battleford, Sask	480.00
	A. E. E. D'UU	Dattielord, Bask	400 00

LESSEES of Grazing Lands-Continued.

Ranche No.			
4			Area in
2	Name.	Address, '	Acres,
-D			ACTON.
- E			
-			
554	H. Munro	Parkin P.O., Wapella, Assn	610.00
555	T. J. Armstrong	High Vlew, Assa	320.00
556	S. Jonsson	High View, Assa.	160.00
557	E. Greer	Innisfail, Alta	640.00
558	E. Greer	Fletwode, Assa	730.00
562	J. G. Farr	Maple Creek, Assa	320.00
566	T. Minaugh	Whitewood, Assa	1,063.00
570	David A. Best	High View, Assa	640.00
671	R. J. Christie		160.00
572	Robert Page	Innisfail, Altn	610.00
575	D. Matheson	High View, Assa High View, Assa	640.00
583	Wm. McMillan	High View, Assa	648.00
584	Frank H. Hourd	Montgomery, Assa	809.00
585	Thos. Kerr	Montgomery, Assa High View, Assa Orange Ridge, Man	640.00
586	David Wilson.	Whitewood Asso	640.00
590	David Wilson D. A. Coleman E. H. Botterell		828.00
592	James Quigley.	229 St. James St., Montreal, Que.,	160·00 639·00
595	James Quigiey	Cochrane, Alta	
600 · 601	William Archibaid	liigh View, Assa	640.00 1.653.00
604	The Boyd Ranching Co	Carherry, Man	4,880.00
606	Robert B. Warner	Fletwode, Assn	975.00
608	H. M. Morris-Reade.	Whitewood Station, Assa	640.00
610	John McDonell.	Lake Dauphin, Man	3,040.00
615	B. Long	Ciare, Assa	160.00
616	Mrs. A. A. Doig	Kennell, Assn	160.00
619	Chas. Blair	Maple Creek, Assa	2,196.00
620	W. R. Jefferson	Carlyle, Assa	480.00
622	G. L. Weatherald	Gien Adelaide, Assa	320.00
628	Donald Murray.	High Vlew Asca	326.00
632	Donald Murray	High Vlew, Assa	320-00
640	Wm Boyd	Fairmede, Assa. High View, Assa. Scandinavla, Man. Fitz Maurlee, Assa. Maple Crock Assa.	320.00
643	Thos. Kerr	High View Assa	160.00
647	G. F. Hirst.	Scandinayla, Man.	320.00
649	Wm. McCaw	Fitz Maurice, Assa.	640.00
652	A. Cumherland	Maple Creek, Assn	320.00
658	Geo. Grassick	Weyhurn, Assa	, 640.00
660	John Dovell	Whitewood, Assa	1,280.00
665	Ricardo & Bevan	Calgary, Alta	303.00
667	Wm. McKinnon	Neepawa, Man	320.00
674	Chas. Lees		320.00
680			800.00
681	J. T. Thompson. H. Bowen.		640.00
682	H. Bowen	Steep Creek, Assa. Maple Creek, Assa. Whitewood, Assa. Maple Creek, Assa. Poplar Grove, Wapeila, Assa.	251.00
686	Samuel Whiting Donald McKenzie Wm. Moore	Maple Creek, Assa	160.00
689	Donald McKenzle	Whitewood, Assa	320.00
690	Wm. Moore	Maple Creck, Assa	640.00
694	Hugh Munro	Poplar Grove, Wapeila, Assa High View, Assa Carlyle, Assa	640.00
695 699	Wm. Brownlee		800.00 320.00
699 700	J. H. McNeil Wm. Turner	Carlyle, Assa	320 00
700	B Decity	Fletwode, Assn Milford, Sask. Big Hill C'k, Cochrnne, Alta	160.00
703	R. Beatty	Dig Will C'k Coobunno Alta	1,120 00
705	R. W. Cowan	Dig min C K, Cochrune, Alta .	640 00
708	Ios Burgess	Plotwodo Assa	480.00
709	Jos. Burgess	Percy, Assa	960 00
713	I T Krohn	Hochstadt Man	160.00
714	I A W Fraser	Jumping Pond, Calgary, Alta	480.00
715	Jos. Burgess. Thos. Harkness. J. T. Krahn. J. A. W. Fraser. Gordon & Ironsides.		1,6 0 00
716	Dan, Whinns	Colley, Assa	1.120 00
718	Dan. Whipps John McEachen	Colley, Assa Clarc, Assa Peguis, Man	6 0 01
720		Peguia, Man	119 00
722	M. T. Bambridge. Alex. Middleton Jas. McDougall.	Moose Jaw_ Assa	610 00
724	Alex, Middleton,	Moose Jaw Assa. Dunmore, Assa. Turnbull, Man Sbelimouth, Man	320.00
725	Jas. McDougall.	Turnbull, Man	295 01
726	Jas. Glichrist.	Sbelimouth, Man	1.7 00
733	Jas. E. Wilson	Riding Mountain, Maa	. 10 00
740	J. B. Paré	Battleford, Sask	0.01

Lessees of Grazing Lands-Continued.

, c'			
ž			
Ranche	Name.	1.1.1	Area in
-8	.vame.	Address,	Acres.
ĕ			
2			
22			
741	E. Loder	Kananaskis, Alta	640.00
744	Rev. J. McDougall.	Morley Alta	640.00
745	R. S. E. Harrison	Morley, Alta Lake Dauphin, Man	862.00
746	P. Harder	Kleefeld, Man.	80.00
748	J. Lawrence, ir.	Alceleiu, Juan.	
		Maple Creek, Assa	1,440.00
749	J. D. Norrish	Nanton, Alta Maple Creek, Assa	480.00
753	John Harvey	Manle Creek, Assa	640.00
759	Jas. Jackson	Maple Creek, Assa	707.00
762	E. Clayton		610.00
764	John Kidd, sr	Maple Creek, Assa Fairmede, Assa	610.00
	John Kiuu, sr	Fairmede, Assa	320.03
765	D. C. Morrison	Cochrane, Alta	160 00
771	Gordon & Ironsides	Winnipeg, Man	320.00
773	Alex. Turnbull	Gleichen, Alta	378.00
774	Joseph Burgess	Fletwode, Assa	240.00
777	Raikes & Lawford	Pine Lake, Alta	160.00
785	T. H. Garry.	Vanistan Ann	
794		Yorkton, Assa	800.00
794	D. M. T. Powell.	Moosomin, Assa	160-00
	W. C. Wells	Palliser, B.C	2,400.00
798	C. F. Pretty	New Westminster Dist., B.C	263.00
799	Rev. J. McDougall	Morley, Alta	1,280.00
801	F. Ricks	Morley, Alta	320.00
804	Donald McIver.	storiey, Alta	
809		Fairmede, Assa	320.00
805		Glenmorris, Assa	160.00
813	M. A. Murray	Jumping Pond, Alta	640.00
817	W. E. Schraeder	Red Deer, Alta	320 00
822	B. P. Alford	Pine Lake P.O., Alta	320.00
823		Minford Alte	320.00
825	M. J. Herbert. E. Beliveau R. E. Fisk & W. A. Thompson	Mitford, Alta Pine Lake P.O., Alta	
831	E. Beliveau.	Pine Lake P.O., Alta.	640.00
	D. Deliveau.	Battleford, Sask	610.00
837	R. E. Fisk & W. A. Thompson	Red Deer, Alta	640.00
840	Lusk Bros	Canmore, Alta	640.00
841	Wm. Edge	Mitford, Alta	640.00
843	Thomas Kerr	Higb View, Assa	160.00
845	C. E. Weatherald		100 00
846	E. A. Wyndham	Glen Adelaide, Assa	320.00
849		Pine Lake P.O., Alta	320.00
	P. B. Alford	Pine Lake P.O., Alta.	320 00
852	W. T. Clements	Fairmede, Assa	640 00
854	Levi Havens	Wawota, Assa	640.00
855	John McEachen	Clare, Assa	320.00
856	L. McKinnon		6.00
860	R. & E. Gray	Dunbow, Alta.	
862		Red Deer, Alta	1,280.00
	J. J. Bruce	Radnor via Cochrane, Alta	307.00
863	F. H. Towers	Mitford, Alta	1,920.00
864	R. E. Bonar	High View, Assa	640.00
868	G. W. Quick	Maple Creek, Assa	960.00
869	D. White	Maple Creek, Assa	320.00
871	F. A. Jackson	Calgary Alta	160 00
872	A Othbald		480.00
	A. Sibbald	P.O. Box 266, Calgary, Alta	
873	H. E. Sibbald	Jumping Pond, Alta	320.00
874	W. Bell-Irving	Mitford, Alta	2,080.00
877	W. D. Kirfoot	Mitford, Alta	3,040.00
878	James Jackson	Maple Creek, Assa	320.00
879	D. Finlayson	Battleford, Sask.	672 00
880	I M Wilson	Dattieroru, Baonin	1.920.00
	J. M. Wilson	Maple Creek, Assa	
881	V. F. Neis. H. F. Maunsell	Lamerton, Alta	85-00
882	H. F. Maunsell	Macleod, Alta	1,120.00
883	Joseph Fisher	Millarville, Alta	320-00
886	Joseph Fisher E. A. Healy	Yorkton, Assa	160.00
887	R. Campbell	Maple Creek Assa	1,280.00
	We Migel	Maple Creek, Assa	640.00
888	Wm. Nicol.	Maple Creek, Assa	
890	Thos. M. Weatherald	Glen Adelaide Assa	640.00
891	H. F. Lawrence	Pine Lake, Alta	1,280.00
895	W. F. H. Collie	Moner, Man.,	320.00
899	A. B. McRae	Cannington Manor, Assa	91.00
901	J. McGarry	Maple Creek, Assa	1,920.00
901		Maple Creek, Assa	640.00
	J. A. Fleming	Maple Creek, Acoa	320.00
903	R. Ronsay	Yorkton, Assa	320.00

LESSEES of Grazing Lands-Continued.

ž			
	Name.	Address.	Area in
10	Manie.	.vuuress.	Acros.
Ranche			
~			
			-
904	G. Tranter	Mapie Creek, Assa	640.00
906	John Marrot	Canmore, Alta.	316.00
909	A. Middieton	Duamore, Assa	160.00
910	J. L. Thompson	Arcola, Assa	640 00
911	James Waish	Cochrae, Alta. Fletwodc, Assa. Riga, Moosomin, Assa.	320.00
915 916	Joseph Burgess.	Pier Magazia	320.00
916	II. K. A. Payne	Springhaak Aita	160.00 640.00
919	IC Plair	Springbaak, Aita Mapie Creek, Assa	691.00
922	G. Tranter.	Calgary, Alta.	640.00
923	W. J. Turton	Caigary, Aita	1.440.00
925	R. P. Alford	Pine Lake, Alta	320.00
926	P. Jousson	Gcyser, Maa	40.00
	Isaac Fiemiag C. E. Weatherald	Maple Creek, Assa	320.00
933	C. E. Weatherald.	Glen Adeiaide, Assa	640.00
935 939	J. C. Warren E. Codc	Red Deer, Alta	320.00
939	A. Tavior	Bresaylor, Sask	480.00
943	James Quinton.		640.00
946	James Quinton. W. D. Cavan	Dummore, Assa. Dummore, Assa. Arcola, Assa. Fairmede, Assa. Jumping Pond, Alta	160.00
947		Dunmore, Assa	160.00
952	Hugh Kippen	Arcola, Assa	320-00
953	F. A. Clements	Fairmede, Assa.	640.00
966 968	Hugh Kippen F. A. Clements J. & R. Copitiorne. L. Havens.	Wawota, Assa	640.00 320.00
965	W T Killett	Maple Creek, Assa.	640.00
978	W. J. Killett	Maple Creek, Assa	320.00
979	C. P. Healey	Jumplag Pond, Alta	480.00
980	J. A. W. Fraser	Jumping Pond. Alta	2,560.00
986	C. Sanders	Maple Creek, Assa	1,280.00
988 991	A. E. Cameron J. S. Blake	High View, Assa Livingstone, Alta	320.00
991	G. H. Love.	Red Deer Alta	640.00
994	D. P. McDonald.	Livingscole, Atta. Cochrane, Alta. Cochrane, Alta. Calgary, Atta. Jumping Pond, Alta. Mitford, Atta.	320.00
998	D. Oshorae. H. Hickling. Patrick Drummond. Jos. Clemens.	Fiemiag, Assa	160.00
1001	H. Hickling	Calgary, Alta	480.00
1017 1021	Patrick Drummond.	Jumping Pond, Alta	160 00 640.00
1021	Jos. Clemens	Calgary, Alta	320.00
1029	Ebenezer Healy	Lethbridge Alte	368-00
1030		Maple Creek, Assa.	1,280.00
1037	J. A. W. Fraser G. A. Love C. H. Clemeats	Jumping Pond, Aita	640.00
103S	G. A. Love	Red Deer, Alta	640.00
1041	C. H. Clements	Fairmede, Assa	320-00
1042	C H Saymour	Priddis, Alta.	160·00 320 00
1047	C. H. Seymour.	Red Deer, Alta Sarnla, Ont Canmore, Alta Whitewood, Assa Jumping Poad, Alta	15,520.00
1013	H. Fraser.	Canmore, Alta.	242.00
1053	G.& I. Blackwood & Co	Whitewood, Assa	161.00
1054	Bateman & Wood	Jumping Pond, Alta	320.00
1055	Annia Ranche Co	High Vlew, Assa. Yorkton, Assa. Mitford, Aita.	160.00
1057 1058		YOFKLOD, ASSa	320.00 \$20.00
1058	A. J. Shaw E. Harmaa	Fletwode, Assa.	480.00
1061	Peter Ronsay	Vorkton Asso	640 00
1064	P. Doyle.	Yorkton, Assa	640.00
1065	P. Doyle Leeson & Scott	Calgary, Alta Fietwode, Assa Many Berries Ck., Coutts, Alta	320.00
1066	R. Cummlags	Fletwode, Assa	800.00
1068	W. Huckvale	Many Berries Ck., Coutts, Alta	4,800.00
1069 1070	R. Cummlags. W. Huckvale W. W. Wilson C. David.	Graburn, Assa	320.00
	Huil Bros	Calgary Alta	1.920.00
1073	A. Day.	Graburn, Assa Duhamel, Alta Calgary, Alta Battleford, Sask	2,560 00
1074	F. Janet.	Fietwode, Assa.	1,280.00
1075	C. Biair.	Maple Creek, As a	960.00
1076	A. Day. F. Janet. C. Blair. J. & R. Copi horne J. Meeban.	Maple Creek, As a Jumping Pond, Aisa Rosebud, Alta	1,920.00
1079	J. Meenan	Rosebud, Alta	160.00
25	—i—5		

LESSEES of Grazing Lands-Continued.

6			
ž		Address.	Area in
ž	Name.	Address.	Acres.
Ranche			
Ra			
		Millarville, Alta	640.00
1080	A. P. Welsh	Fletwode, Assa. Sheppard, Calgary, Alta.	1,920.00
1082 1086		Sheppard, Calgary, Alta	639.00
1088	W I Lee	Turnbull P.O., Shellmouth, Man Whitewood, Assa	160.00
1093	Chas. Davis	Josephburg, Assa	320.00
1095 1099	I A Turner	Millarville, Alta	270.00 480.00
1101	P B Warner.	Fletwode, Assa	960.096
1107	John Lawrence E. W. Rackstraw		2,080.00
1109 1112	McLeay & Brown	Trvino Assa	960.00
1113	Ovide Blouin	Duhamel, Alta	1.280.00
1114	J. D. Norrish.	Livingstone, Assa	160.00
1116 1117	F. S. Blake	Iosephburg, Assa	480.00
1118	Chas Lees	Maple Creek, Assa	160.03
1119	W I Latimer.		960.00
1120 1121	I I antier	Floturode Asso.	1,280.00
1122	I B. Scott.,	Wetaskiwin, Alta	320.00
1123	W. J. Wilson	Fletwode, Assa.	640.00
1125 1126	Johann Oswald.	Steinbach, Man.	160.0J 320.00
1120	G. F. Pownall.	Davisburg, Alta Poplar Grove, Assa	160 00
1128	J. G. Beedie.	Jumping Pond, Alta	640.00
1129 1132	C. G. Healey	Whitewood, Assa	160.00 640.00
1135		Calgary, Alta Calgary, Alta	640.00
1136	Murton & Ingham.		1,280.00
1137 1138	T. H. Tinney R. Turner	Calgary, Alta	160.00
1138			640.00
1140	McLoughlin Bros.	Cochrane, Alta.	2,018.00
1141 1142	J. Cockbaine	Poplar Grove, Assa	450.00
1142	D. A. McCallum	Nanton, Alta	320.00
1144	I. Colard.,	New Oxley, Alta.	1,280.00
1146 1147	J. E. M. Leeds	New Oxley, Alta.	114.00 640.00
1147	A. J. Prongua	Battleford, Sask	320.00
1154	J. H. Metcalfe		160.00
1156 1158	L. Perry	Maple Creek, Assa	640°00 160°00
1158	Mrs Jane Abbott.	. Graburn, Assa Alta	
1160		Whitewood Assa.	320.00
1161 1162	T. Stewart.	Whitewood, Assa	320.00
1162 1170	W Moodie		320.00
1171	McLachlan Bros.	Coleary, Alla.	
1172	G. B. Cook.	Broadview, Assa	. 160.00 640.00
1173 1174	Gordon Heally	Calgary, Alta	640.00
1177		Manle Creek, Assa.	. 640.00
1178	J. Lambie.	Maple Creek, Assa. Edwill, Alta	. 320.00
1180	Wm. Gier.	Okotoks, Alta	160.00
118	F. W. Butler	Regina, Assa.	100 01
118 118	I D Cheesbrough.		
118	D E Fiske.	Red Deer, Alta	1.120.0
118	P St. Dennis.	Seehurn Man.	1,280.0
118		Millarville, Alta.	
119 119	E. J. Botterell.	Montreal, Prov. Que	160.0
119	F. A. Massack		
119 119	4 T. H. Tinney	Colleston, Sask.	160.0
119	A. Loddon		

LESSEES of Grazing Lands-Continued.

Ž.			
Ranche No.	Name.	Address.	Area m
cl			Acres.
at			
×			
	1		
1196	R. F. Starke	Medicine Hat, Assa	1.440.00
1198	A. H. Eckford	High River, Alta.	610.00
1199	T. Harkness	Fletwode, Assa	1,120.00
1200	J. B. Scott	Wetaskiwin, Alta	17:00
1201	Jas. Martin	Maple Creek, Assa Walsh, Assa	1,280.00
1202 1203	J. C. Hargrave	Walsh, Assa	3,035.44 313.00
1205	F. S. Biake	Daleshoro Assa	640.00
1209	L. Simonin	Livingstone, Alta Daleshoro, Assa Lake Chapleau, Assa	640.00
1210	H. Erlekson		160.00
1213	F. W. Chamherlain		610.00
1214	H. Hone	Priddis, Aita Fish Creek, Alta Red Dear, Alta	320.00
1217	D. Carter	Flsh Creek, Alta	160.00
1218	S. Grimson		160.00
1120	Messrs. Spencer et al	Sunnyside, Montana, U.S.A	69,120.00
1221	Messrs. Farley & Wright	Red Deer, Alta.	320.00
1222	J. Drader.	Innisfail, Alta	320.00
1225	J. Lawrence.	Maple Creek, Assa.	640.00
1226		Fietwode, Assa	610.00
1227	W. A. Douglas. S. Brown. M. Dowker.		640.00
1228	S. Brown	Okotoks, Alta	160.00
1229	M. Dowker	Calgary, Alta	320.00
1233	Blache Bros. P. C. Barnard-Hervey	Springhank, Alta	640.00
1237 1238	P. C. Barnard-Hervey	Springhank, Alta Calgary, Alta Calgary, Alta Maple Creck, Assa	320.00
1238	J. McG. Young.	Calgary, Alta.	610.00 160.00
1241	J. T. McKnlght	Calgary, Alta.	57.00
1243	A. Wilton.	Whitewood, Assa	640.00
1244	W. C. Skrine	High River, Alta	640.00
1245	W. G. Adams. J. Fisher. N. Williams. Samson & MacNaughton.	Coulee, Maple C'k, Assa	1,280.00
1246	J. Fisher	Millarville, Alta.,	160.00
1249	N. Williams.		480.00
1252	Samson & MacNaughton	Calgary, Alta. Calgary, Alta. Moffat, Assa. Brandon, Man. Calgary, Alta.	640.00
1257 1258	A. Young.	Calgary, Alta	320.00
1258	T. W. Johnston W. F. Wilson.	Monat, Assa	610.00 5,000.00
1262	N. Harper.	Calgary Alta	450.00
1263	J. Rehoul	Fletwode, Assa	320.00
1266	J. W. Isaac	Kleefeld, Man.	160.00
1267		Kleefeld, Man	1,280.00
1268	0. Nicoll	Solsgirth, Man. Prince Albert, Sask. Dried Meat Lake, Duhamei, Alia	1.280.00
1269	E. H. Moore	Prince Albert, Sask	1,100.00
1271	J. B. Scott	Dried Meat Lake, Duhamei, Alta	118 00
1272 1273	A. white. O. Nicoll E. H. Moore. J. B. Scott J. Martin. W. M. Garment. W. B. Young W. H. Nevers		640.00 157.00
1273	W B Young	Maple Creek Aven	960-00
1276	W. H. Meyers.	Prince Albert Soak	480.00
1277	W. Braikenridge.	Crowstand, Assa	2,240.00
1278	W. Braikenridge	Marguerite, Assa	610.00
1279	A Gauzee. F Burton. Jean Martin. P. Currie. D. Kearns. L. Perry. W. Harkness. C. M. Wallace. S. Carson. R. H. Yoe.	Marguerite, Assa Lyndon, Alta	320.00
1280	Jean Martin	Fletwode, Assa	960.006
1281 1282	P. Currie.	Maple Creek, Assa Montmartre, Man	960.00
1282 1283	D. Kearns	Maple Creek, Assa	1,280.00
1283	W Harkness	Montmartre, Man Fletwode, Assa Forest Farm, Assa	160.00
1289	C. M. Wallace.	Forest Farm Assa	160 00
1290	S. Carson	Forest Farm, Assa,	320.00
1293	R. H. Yoe	Forest Farm, Assa	160.00
1296	R. H. Yoe	Millarville, Alta	320.00
1299		Whitewood, Assa	640.00
1300		Lacombe, Alta	480.00
1304 1310	D. HURLIN Dass	Calgary, Alta.	320.00
1310	A P Welch	Millonville, Alta.	640.00 160.00
1313	W H Thompson	Granfall Agen	160.00
1315	K. Healy. Hunter Bros. A. P. Welsh W. H. Thompson. W. R. Moseley.	Millarville, Alta Lacombe, Alta Cochrane, Alta Millarville, Alta Grenfell, Assa Priddis, Alta	320-00
	-i-53		00000
	-		

T.

Lessees of Grazing Lands-Continued.

ž			
2	Name.	Address.	Area in
ach			Acres.
Ranche			
1316	A. Agrew	Red Deer, Alta	315.00
1317	F. King.	Cochrane, Alta.	640.00
1318	C. Chouinard	Cochrane, Alta	1,280.00
1319	J. Cooper	Cochrane, Alta	160.00
1321 1324	G. W. Quick.	Rat Portage, Ont	640:00
1329	Smith & Lee.	High River, Alta	640.00
1330	W. J. Birney-Brown	Cochrane, Alta.	640.00
1335	G. A. Trent.	Walsh, Assa	1,120.00
1336 1337	L. C. Brown	Josephhurg, Assa	640.00
1338	W. Toppings.	Fitzmaurice, Assa	800.00
1339	E. J. Kieran	Calgary, Alta	320.00
1340	C. Gorrell	Carherry, Man	320.00
1341 1342	J. Loptron	Medicine Hat, Assa	300.00
1344	J. Harvey	Maple Creek, Assa	960.00
1345	J. H. McEwen	Nanton, Alta	320.00
1349	D. Carter	Fish Creek, Alta	320.00
1350 1353	A. B. Carl	Red Deer, Alta	640.00
1356	E. Waines	Springhank, Alta	320.00
1357	J. Arnell	Calgary, Alta	640.00
1358	J. Hockin.	Lacomhe, Alta	640°00 320°00
1359 1360	J. Lynch	Maple Creek, Assa	320.00
1361	S. H. Mayhood.	Calgary, Alta	160.00
1362	D. Thorhurn	Davishurg, Alta	411.00
1363 1366	W. Carson	Whitewood, Assa	320.00 400.00
1365	Dr. F. W. Shaw.	Carberry, Man.	160.00
1370	C. Cumming	Fletwode, Assa	1,280.00
1371	J. Reboul	Fletwode, Assa	320.00 160.00
1372 1373	T. Huckerby	Fletwode, Assa	640.00
1374	H. C. Neis	Lamerton, Alta	97.00
1375	L. Raincock	Westhourne, Man	320.00
1379 1382	W. E. Smith	Wild Cat, Livingstone, Alta Okotoks, Alta	320.00
1382	Jos. Edwards	Tumhell, Man.	640-00
1384	A. B. Hassett.	Maple Creek, Assa	160.00
1386	W. L. Christie	High River, Alta.	480.00
1387 1388	R. Mitchell.	Medicine Hat, Assa	600.00 1.120.00
1390	C. D. Strong	Walsh, Assa	160.00
1391	D. McEachen	Grand Valley, Cochrane, Alta	320.00
1392	G. A. Reid.	Cochrane, Alta	1,325.00
1393 1394	F. W. Peacock Messrs. Adams & King	Maple Creek, Assa	175.05
1395	A. Wallis	Calgary, Alta	129.00
1396	M. Lantier. H. Fraser	Fletwode, Assa	640.00
1398 1399		Canmore, Alta	. 640.00 320.00
1399	A. Herr	Brice, Alta	640.00
1401	J. Dixon	Maple Creek, Assa	960.00
1403	C. Cullen	Calgary, Alta	160.00
1404 1406	B. S. Lloyd	Calgary, Alta	320.00 640.00
1411	W. Wood	Broadview, Assa	160.00
1412	J. F. Clements	Brookside, Assa	160.00
1414	R. H. Yeo	Brookside, Assa	320.00
$1416 \\ 1417$	T. E. Jackson	Calgary, Alta	320.00
1421	A. Shaw,,	Medicine Hat, Assa.	640.00
1422	W. Hill.	Medicine Hat, Assa	160.00
1423 1426	P. B. Cleland.	Midnapore, Alta.	160.00
1420	in a component a component a	Jumping Pond, Alta	100.00

LESSEES of Grazing Lands-Continued.

Yane Addres Arsis 1000 0.0000 0.0000 0.0000 0.0000 1000 0.0000 0.0000 0.0000 0.0000 0.0000 1000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1000 0.00000 0.0				
1127 C. M. Thrower 02000; Assa. 22000; Cohen, Perry. 22	-			
1127 C. M. Thrower 02000; Assa. 22000; Cohen, Perry. 22	ž			
1127 C. M. Thrower 02000; Assa. 22000; Cohen, Perry. 22		21	Addamar	Area in
1127 C. M. Thrower 02000; Assa. 22000; Cohen, Perry. 22	-	Same.	Audress	Acres.
1127 C. M. Thrower 02000; Assa. 22000; Cohen, Perry. 22	1			
135 Chehm Perg. Cochrane, Alta	ž			
135 Chehm Perg. Cochrane, Alta				
135 Chehm Perg. Cochrane, Alta	1.07	O M Thueses	Oxhow Assa	220+00
1410 D. Stephens		Chas Power	Cochrane Alta	
1410 D. Stephens		los Divon	Manie Creek Assa	
1410 D. Stephens	1131	I B Lindsay	Medicine Hat, Assa.	610.00
145 W. S. A. Reid, R. E. Tuer, C. Typer, Plens C. Y. Fenska, Ala		J. Stephens.	Calgary, Alta	
145 W. S. A. Reid, R. E. Tuer, C. Typer, Plens C. Y. Fenska, Ala	1440	Jas. Anderson	Castleavery, Man	320.00
145 W. S. A. Reid, R. E. Tuer, C. Typer, Plens C. Y. Fenska, Ala		R. E. Starke	Medicine Hat, Assa	1,760.00
146 V. T. T. B. C	1445	W. & A. Reid, R. E. Tyner, C. Tyncr,		
1466 Jehn Colard. Pletwoke, Ama. 220-00 147 Jehn Colard. Wachool, Alla. 220-00 146 J. F. Winslah. Wachool, Alla. 220-00 146 Chas. A. Wood. Plex Lake, Alla. 120-00 146 Chas. A. Wood. Plex Lake, Alla. 120-00 146 Chas. A. Wood. Plex Lake, Alla. 120-00 146 C. W. Wood. Plex Lake, Alla. 120-00 146 C. W. Wood. Plex Lake, Alla. 120-00 147 J. B. Geetz. Perbrood, Aama. 120-00 148 J. A. W. Fraser. Calary, Alla. 60-00 149 J. A. W. Fraser. Calary, Alla. 60-00 1400 J. A. W. Fraser. Pletwoke, Aama. 60-00 1401 J. A. W. Fraser. Calary, Alla. 60-00		J. Tyner.,	Pigeon C'k, Ponoka, Alta	
115 1.1. Matcalfe. Westbeurne, Man. 370-00 115 1.4. Natcalfe. Matcloof, Alla. 120-00 1167 1.4. Natcalfe. Matcloof, Alla. 120-00 1167 The Lichbridge Sheep Co. Lichbridge, Alla. 120-00 1167 The Sheep Creek Ranching Co. Calabridge, Alla. 110-00 1166 De Mergenin Miltarda, Alla. 110-00 1167 De Lichbridge Sheep Creek Ranching Co. Calabridge, Alla. 110-00 1168 De Mergenin Miltarda, Alla. 120-00 1169 De Mergenin Pictwork, Alla. 120-00 1160 De Mergenin Pictwork, Alla. 120-00 1160 Massen Pictwork, Alla. 120-00 1160 Massen Pictwork, Alla. 200-00 1161 Massen Pictwork, Alla. 200-00 1162 Jak Marke. Kalles 200-00 1163 Jak Marke. Pictwork, Alla. 200-00 1164 Norman Shepperil. Pictwork, Alla. 200-00 1177 Jules Garde. Palemery, Alla. 60-00 1184 J. B. Karke. Pictwork, Alla. 200-00 1185 J. Starter Pictwork,	1446	W. F. Wilson	Brandon, Man	17,000.00
135 J. R. Alian. Macicol. Alia. 220 e0 145 E. F. Yuamingan. Macicol. Alia. 220 e0 146 F. L. Chumingan. Macicol. Alia. 220 e0 146 The Lethbridge Sheep Co. Lethbridge, Alia. 240 e0 146 The Lethbridge Sheep Co. Lethbridge, Alia. 120 e0 146 D. McDougali. Co. Pile Lake, Alia. 120 e0 146 D. McDougali. Milisard, Alia. 140 e0 146 D. McDougali. Pile work, Alia. 120 e0 146 G. W. Woel. Pile Lake, Alia. 120 e0 147 J. McCollegali. Pile work, Alia. 60 e0 148 G. W. Woel. Pile work, Alia. 60 e0 149 H. Norman Shaparl. Pile work, Alia. 60 e0 149 J. Nurreer. Pile work, Alia. 60 e0 149 J. Wareer. Pile work, Alia. 60 e0 140 A. Sikkenes. 100 e0 60 e0 141 J. M. Wareer. Pile work, Asaa. 100 e0 142 J. C. Wareer. Pile work, Asaa. 100 e0 143 J. Sikkenes. 100 e0 100 e0 144 J. Sikkenes. 100 e0 <		John Colard	Fletwode, Assa	
1456 E. P. Cummings. Macleof. Alts. 52-00 1467 Fue Theorements. Ele Forta, Wile Oak P.O. Mail 120-00 1461 Chas. A. Wood. Files Lake, Alta. 120-00 1462 Chas. A. Wood. Files Lake, Alta. 120-00 1463 Chas. A. Wood. Files Lake, Alta. 120-00 1464 Chas. A. Wood. Files Lake, Alta. 120-00 1465 Chas. A. Wood. Files Lake, Alta. 120-00 1466 C. W. Wood. Files Lake, Alta. 120-00 1467 L. B. Gaetz. File Lake, Alta. 60-00 1477 L. B. Gaetz. Fed Deer, Alta. 60-00 1478 L. B. Gaetz. Fed Deer, Alta. 60-00 1479 L. W. Fraser. Calaery, Alta. 60-00 1489 A. W. Fraser. Calaery, Alta. 60-00 1490 J. McKar. Felwood, Asaa. 60-00 1491 A. Genees. New Filanda, Asaa. 60-00 1490 J. McKar. Whitewood, Asaa.			Westbourne, Man.,	
147 John Thordareen Jile Point, Wild Oak P.O., Man. 100 00 1467 John Thordareen Jile Point, Wild Oak P.O., Man. 100 00 1466 Chai, A. Wood, Pile Lake, Mat. 120 00 1467 The Sheep Creek Ranching Co Chairy, Alta. 120 00 1466 The Sheep Creek Ranching Co Chairy, Alta. 120 00 1467 Massen Pietwole, Assa. 120 00 1468 Wan, Herkness. Pietwole, Assa. 120 00 1469 Johnson Dideburg, Alta. 220 00 1469 Johnson Dideburg, Alta. 220 00 1469 Lassen Pietwole, Assa. 120 00 1469 Lassen Pietwole, Assa. <td< td=""><td></td><td></td><td>Maglood Alta</td><td></td></td<>			Maglood Alta	
1456 Free Lathbridge Sheep Co. Lethbridge, Alta. 2,40 • e6 1457 Free SA. MCreice, France Co. Construct, Alta. 1,80 • e6 1468 D. McDougall. Construct, Alta. 1,80 • e6 1469 D. McDougall. Construct, Alta. 1,80 • e6 1461 D. McDougall. Milward, Alta. 1,20 • e6 1462 G. W. Wood. Phe Lake, Alta. 1,20 • e6 1463 G. Retz. Free Case, Alta. 2,20 • e6 1464 F. M. Wood. Phe Lake, Alta. 2,20 • e6 1472 Jan. Markle. Free Case, Alta. 6,60 • e6 1473 Jan. Wrareer. Feltowork, Asta. 160 • e6 1474 Jan. Warkle. Feltowork, Asta. 160 • e6 1475 Jan. Wareer. Feltowork, Asta. 160 • e6 1476 Jan. Wareer. Pertwork, Asta. 160 • e6 1478 Jan. Wareer. Pertwork, Asta. 160 • e6 1479 Jan. Wareer. Pertwork, Asta. 160 • e6 1479 Jan. W		John Thordarson	Ble Point Wild Oak P.O. Man	
160 Chas. A. Wood. Pice Lake, Alta. 1,230 ° 00 161 Chas. A. Wood. 160 160 162 De Arboyall. 160 160 164 C. W. Woed. Pice Lake, Alta. 1,250 ° 00 164 G. W. Woed. Pice Lake, Alta. 1,250 ° 00 164 G. W. Woed. Pice Lake, Alta. 1,250 ° 00 164 J. B. Gaetz. Red Deer, Alta. 640 ° 00 164 J. B. Gaetz. Red Deer, Alta. 640 ° 00 164 J. B. Gaetz. Red Deer, Alta. 640 ° 00 164 J. M. W. Fraser. Calagary, Alta. 640 ° 00 164 J. M. W. Fraser. Calagary, Alta. 640 ° 00 165 A. B. Bacene. New Finland, Aman. 640 ° 00 164 A. B. Bacene. New Finland, Aman. 640 ° 00 165 A. B. Bacene. New Finland, Aman. 640 ° 00 166 A. B. Macene. Dever Finland, Aman. 640 ° 00 160 A. B. Macene. Calagary, Alta. 640 ° 00 161 A. B. Macene. Calagary, Alta.		The Lethbridge Sheen Co.	Lethbridge, Alta	
162 The Sheep Creek Ranching Co	1461	Chas. A. Wood	Pine Lake, Alta	
166 D. McDougall. Milward, Alta. 1,40-90 166 D. McDougall. Pipe Lake, Alta. 1,200 166 Dohn Manson. Didbury, Alta. 1,200 166 J. B. Gentz. File Lake, Alta. 1,200 166 John Manson. Didbury, Alta. 1,200 167 J. B. Gentz. Fiel Deer, Alta. 600 171 J. A. W. Praser. Calary, Alta. 600 172 J. A. W. Praser. Calary, Alta. 600 173 J. A. W. Praser. Calary, Alta. 600 174 J. A. W. Wrarer. Pictwook, Assa. 600 175 J. G. Warrer. New Filand, Assa. 600 174 J. A. Warrer. New Filand, Assa. 600 175 J. G. Warrer. Daviburg, Alta. 220-00 176 J. M. Warrer. Daviburg, Alta. 220-00 176 J. M. Kars. Daviburg, Alta. 220-00 176 Daviburg, Alta. 200-00 178 A. G. Warrer. Daviburg, Alta. 200-00 176 R. A.	1462	The Sheep Creek Ranching Co	Calgary, Alta.,	160.00
146 U. W. Wood., Phe Lake, Alia. 1,20 146 U. W. Wood., Phe Lake, Alia. 1,20 147 J. B. Gaetz. Science Science 1,20 147 J. B. Gaetz. Fed Deer, Alta. 20 0,00 147 J. B. Gaetz. Fed Deer, Alta. 60 0,00 147 J. B. Gaetz. Fed Deer, Alta. 60 0,00 147 J. A. W. Praser. Caterry, Alta. 60 0,00 147 J. A. W. Praser. Caterry, Alta. 60 0,00 149 J. C. Warner. Fetwood, Assa. 60 0,00 149 J. Weits Gaesh. 820 0,00 1,00 <t< td=""><td>1463</td><td>D. McDougall</td><td>Millward, Alta</td><td>1,440.00</td></t<>	1463	D. McDougall	Millward, Alta	1,440.00
166 Was, Markans, Pletwork, Anna. 1,20-00 167 J. B. Gentz, Rett. Feldwork, Alta. 60-00 168 H. Norman Sheppard, Feldwork, Alta. 60-00 169 H. Norman Sheppard, Feldwork, Alta. 60-00 169 H. Norman Sheppard, Feldwork, Alta. 60-00 169 H. Norman, Sheppard, Feldwork, Alta. 60-00 169 H. S. W. Facer, Califor, Alta. 60-00 161 J. M. W. Facer, Califor, Alta. 60-00 161 J. M. W. Facer, Califor, Alta. 10-00 161 J. M. W. Facer, Califor, Alta. 10-00 162 J. M. W. Facer, Califor, Alta. 10-00 163 A. Sikkenen. New Finland, Ama. 60-00 164 J. M. W. Margar, Mas. 20-00 20-00 165 G. F. Wang, M. M. Margar, Mas. 20-00 20-00 166 G. F. Wang, M. M. Margar, Mas. 20-00 20-00 167 J. S. Maloney, M. Margar, Mas. 10-00 20-00 168 G. F. Powall Daviburg, Alta. 10-00		G. W. Wood	Pine Lake, Alta.,	1.280.00
1400 John Jansen. John Jansen. 200 00 1400 John Jansen. John Jansen. 200 00 1475 Jans Markle. Galary, Alla. 600 00 1476 Jans Markle. Galary, Alla. 600 00 1475 Jans Markle. Galary, Alla. 600 00 1475 Jans Markle. Galary, Alla. 600 00 1475 Juns Markle. Februard. Februard. 600 00 1475 Jules Garaf. Februard. Februard. 600 00 1475 Jules Garaf. Februard. Februard. 600 00 1488 B. B. Alles. Daviburg. Alla. 600 00 100 4. 600 00 1409 Jules Garaf. Daviburg. Alla. 600 00 100 0. <td></td> <td>Wm. Harkness</td> <td>Fletwode, Assa</td> <td>1,120.00</td>		Wm. Harkness	Fletwode, Assa	1,120.00
1409 H. Norman Shepparl. Pekinko, Atta. 660 op 140 H. Norman Shepparl. Cialan, Ama. 200 op 141 Kikhe. Cialan, Ama. 200 op 1416 John Dels. Balconic, Ama. 100 op 1416 Gardo. Baltlord, Sask. 100 op 1416 Gardo. Baltlord, Sask. 100 op 1418 A. Sikkersen. New Finland, Ama. 600 op 1418 A. Sikkersen. New Finland, Ama. 600 op 1418 A. Sikkersen. New Finland, Ama. 200 op 1401 A. Sikkersen. Daltergan, Ata. 200 op 1401 A. Sikkersen. Daltergan, Ata. 200 op 1400 F. Carker, Ata. 100 op Carker, Ata.		John Manson	Didsbury, Alta.,	
1477 Jan, Markle. Kiesina, Anna. 220 e0 1478 Jan, Warkle. 600 e0 1479 Jak, Warner. Galary, Alta. 600 e0 1479 Jules Gagné. Battleford, Sask. 160 e0 1479 Jules Gagné. Battleford, Sask. 160 e0 1479 Jules Gagné. Battleford, Sask. 610 e0 1479 Jules Gagné. Prevode, Anna. 640 e0 1479 Jules Gagné. Warner. Vilewood, Anna. 640 e0 1488 B. Alles. New Filmed, Anna. 620 e0 1499 Jules Gagné. Davissurg, Alta. 620 e0 1490 Jules Gagné. Davissurg, Alta. 620 e0 1500 Valarse Ranche Co. Calgary, Alta. 620 e0 1501 Yalarse Ranche Co. Calgary, Alta. 620 e0 1502 Valarse Ranche Co. Calgary, Alta. 620 e0 1503 Valarse Ranche Co. Calgary, Alta. 620 e0 1504 Valarse Galarse. 160 e0 60 e0 1505 R. A. Hannol. Winalpee, Man. 420 e0 1507 R. A. Hannol. Winalpee, Man. 420 e0 1508 R. A. Hannol. Winalpee, Man. 420	1467	J. B. Gaetz	Red Deer, Alta	
114 1.A. W. Praser. Calarry, Alta. 60.00 117 Jules Garada. Rattleford, Sask. 100.00 118 J.C. Warner. Plevode, Assa. 60.00 119 Jules Garada. Rattleford, Sask. 100.00 110 J.C. Warner. Plevode, Assa. 60.00 110 J.C. Warner. Plevode, Assa. 50.00 110 J.C. Warner. Plevode, Assa. 50.00 110 J.C. Warner. Waltwood, Assa. 50.00 110 J.McKar. Waltwood, Assa. 50.00 110 J.McKar. Waltwood, Assa. 50.00 110 J.McKar. Waltwood, Assa. 50.00 110 Yabarse Ranche Co. Calgary, Alta. 60.00 110 Yabarse Ranche Co. Calgary, Alta. 60.00 110 Yabarse Ranche Co. Calgary, Alta. 60.00 1110 R.F. Parker. Battleford, Sask. 40.00 1120 R.F. Parker. Battleford, Sask. 40.00 1130 W.B. Tabarse. Partia, Alta. 100.00	1469	H. Norman Sneppard	Pekisko, Alta	
1476 John Delfs. Talegonia, Asna. 120 oc 1475 John Starker, Stark		I A W Freep	Calgary Alta	
100 Julie Warms. Pattleford, Sask. 100-00 101 Julie Warms. Pattleford, Sask. 100-00 108 A. Sikkeens. New Piniad, Asma. 60-00 108 B. A. Sikkeens. New Piniad, Asma. 60-00 108 B. A. Sikkeens. Daviburg, Atma. 60-00 108 F. S. Marcon. Wallewood, Asma. 230-00 109 F. Clark. Daulotry, Atma. 230-00 100 Kaines Banche Co. Cakarry, Atma. 640-00 100 G. F. Pownall Daviburg, Atma. 640-00 106 G. F. Pownall Daviburg, Atma. 640-00 106 G. F. Pownall Daviburg, Atma. 640-00 108 F. A. Twakey. Battleford, Sakk. 90-00 109 J. Foltras. Pattleford, Sakk. 40-00 101 W. B. Theree. High River, Atma. 40-00 103 Gee, Ambrees High River, Atma. 100-00 104 Gee, Ambres High River, Atma. 100-00 <td></td> <td></td> <td>Balgonia Asea</td> <td></td>			Balgonia Asea	
182 J. C. Warner. Fletwofe, Assa. 660-00 183 A. B.Konen, New Flaiad, Assa. 660-00 184 A. B.Konen, New Flaiad, Assa. 660-00 185 J. McKar. Whitewood, Assa. 620-00 186 Yaharse Eanshe Co. Calgary, Atta. 640-00 186 Yaharse Ranche Co. Calgary, Atta. 640-00 186 Yaharse Ranche Co. Calgary, Atta. 640-00 186 F. Le Chat. Mattifer, Mas. 640-00 187 J. Poltras. Milarville, Alta. 640-00 188 W. B. Force. Hattiff, Atta. 640-00 189 W. B. Corate. Patina, Atta. 640-00 180 W. B. Corate. Patina, Atta. 640-00 181 W. B. Corate. Patina, Atta. 640-00 183 M. Goraya. 640-00 640-00 184 W. B. Corate. Patina, Atta. 640-00 185 J. B. Charde. Patina, Atta. 640-00 185<		Jules Gagné.	Battleford Saek	
1438 A. Sikkenen. New Finland, Avas. 640 °0 143 A. Sikkenen. Difficulty and a straight of the st			Fletwode Assa	
148 B. B. Allen. Daviburg, Alta. 640-00 148 B. B. Allen. Wilewood, Ataa. 520 148 R. S. Norton. Wilewood, Ataa. 520 1500 F. Clark. Dundurg, Ataa. 520 1600 Yalarse Ranche Co. Calary, Alta. 640 1600 G. Clark. Dundurg, Ataa. 520 1600 G. F. Powsall Talarpier, Ataa. 640 1600 G. F. Powsall Talarpier, Ataa. 640 1605 G. Dell. Millarville, Ataa. 1600 1605 G. Dell. Millarville, Ataa. 1600 1605 G. F. Powsall Talarpier, Ataa. 1600 1605 G. F. Torke. Falthford, Sakt. 400 1611 Goolekar, Ata. 1600 160 1611 Goolekar, Ata. 1600 1600 1707 K. B. Torke. Panima, Ata. 1200 1818 W. B. Torke. Panima, Ata. 1200 1816 Goolekar, Ata. <td>1483</td> <td>A. Sikkenen</td> <td>New Finland, Assa.</td> <td></td>	1483	A. Sikkenen	New Finland, Assa.	
140 A. McKar. Whitewood, Assa. 220-00 140 A. McKar. Durblurg, Alla. 220-00 150 F. Clarke. Durblurg, Alla. 230 150 Y. Clarke. Durblurg, Alla. 230 150 Y. Clarker, C. Calgary, Alla. 640-00 150 Y. Clarker, P. Allalowick, Alla. 430 150 G. F. Poweall. Mainper, Man. 430 156 G. F. Poweall. Millerville, Alla. 140-00 156 G. C. Bell. Millerville, Alla. 140-00 156 F. A. Thorne. Hildberld, Saka. 40-00 150 W. B. Thorne. Haltloord, Saka. 120-00 151 M. G. Castle. Pasina, Alta. 120-00 153 Goo. Ambrey. Naph Creek, Asma. 120-00 153 Goo. Castle. Pasina, Alta. 120-00 154 Goo. Castle. Pasina, Alta. 120-00 155 B. P. Croeguist. Ref. Croeguist. 160-00		B. B. Allen		
150 P. Clark. Dundarg. Assa. 230:00 150 P. Clark. Gundarg. Assa. 540:00 150 C. F. Pownall Davisburg. Alta. 160:00 150 G. F. Pownall Davisburg. Alta. 160:00 150 G. F. Pownall Davisburg. Alta. 160:00 150 G. F. Pownall Davisburg. Alta. 100:00 150 R. A. Teskey. Calasiry. Assa. 100:00 150 J. Politas. Ratiford. Sask. 40:00 151 W. B. Thorne. High River. Mia. 10:00 151 W. B. Thorne. High River. Mia. 10:00 153 K. Healy. Calasiry. Assa. 10:00 154 R. Grave. Faling. 10:00 155 W. Geo. Castle. Patina. 10:00 154 Bar. Grave. Assa. 10:00 155 J. Stanbardi. Calasiry. Alta. 10:00 155 J. Stanbardi. Calasiry. Alta. 10:00 155 J.		J. McKay.,	Whitewood, Assa	
100 10.5 8.7 10.6 1		A. S. Maloney	Davlsburg, Alta	
100 10.5 8.7 10.6 1		F. Clark.		
160 6. F. Pownall Davisburg, Atta. 100 66 150 6. F. Pownall Millarville, Atta. 100 66 150 6. F. Pownall Millarville, Atta. 100 67 150 F. A. Teskey. Calatry, Atta. 100 66 150 F. A. Teskey. Calatry, Atta. 100 60 150 W. B. Thorne. Filth River, Min. 100 60 151 W. B. Thorne. Filth River, Min. 100 60 153 W. Heith, . 100 60 100 60 154 W. Geo. Castle. Patnina, Atta. 100 60 155 W. Geo. Castle. Patnina, Atta. 120 60 150 Jos B. Geray. High River, Min. 120 60 150 Jos B. Geray. High River, Min. 120 60 150 Jos B. Geray. High River, Min. 120 60 151 J. Simbardi. Calatry, Atta. 120 60 152 J. Simbardi. Calatry, Atta. 120 60 153 J. Simbardi. Calatry, Atta. 120 60		labaree Ranche Co		
1856 G. Bell. Millarville, Aita. 100 e0 1857 R. A. Treker, Balthford, Saska. 200 e0 1869 R. A. Treker, Balthford, Saska. 40 e0 1869 R. A. Treker, Balthford, Saska. 40 e0 1869 R. A. Treker, Balthford, Saska. 40 e0 1869 R. A. Treker, Balthford, Saska. 100 e0 1813 K. Healy. Calasty, Assa. 100 e0 1813 K. Healy. Calasty, Assa. 100 e0 1813 Balta Sproat. Tasifia, Aita. 120 e0 1815 Jass Sproat. Tasifia, Aita. 120 e0 1825 R. P. Crossitale. Patina, Aita. 160 e0 1826 A. H. Saimon. Fide. Frobiatide, Assa. 160 e0 1828 B. J. Subards. Calasty, Aita. 160 e0 1829 J. Subards. Calasty, Aita. 160 e0 1829 J. Subards. Calasty, Aita. 160 e0 1820 J. Subards. Calasty, Aita.		C F Doppall	Winnipeg, Man.	
1000 L. Poitras. 200 c0 1100 R. Poitras. 200 c0 111 W. B. Tornes. High River. 100 c0 111 W. B. Tornes. High River. 100 c0 112 W. J. McLares. Okotoka, Atta. 100 c0 113 Henry Clayton. Calary, Atta. 1120 c0 1137 Henry Clayton. Calary, Atta. 1120 c0 1138 Atta Spread. Tanifali, Atta. 1120 c0 1139 Geo Ambrew. Maple Creek, Assa. 640 c0 1120 B. J. Reinhardt. Calary, Atta. 1120 c0 1138 Atta Spread. Tanifali, Atta. 1120 c0 1139 Ben Bardt. Calary, Atta. 1120 c0 1130 Ben Bardt. Calary, Atta. 116 c0 1137 Ben Schmardt. Calary, Atta. 116 c0 1138 J. Berker. Providide. Assa. 640 c0 1137 J. Burke. Providide. Assa. 640 c0 1138 J. Berker. Prov		G Bell	Davisburg, Alta	
1000 L. Poitras. 200 c0 1100 R. Poitras. 200 c0 111 W. B. Tornes. High River. 100 c0 111 W. B. Tornes. High River. 100 c0 112 W. J. McLares. Okotoka, Atta. 100 c0 113 Henry Clayton. Calary, Atta. 1120 c0 1137 Henry Clayton. Calary, Atta. 1120 c0 1138 Atta Spread. Tanifali, Atta. 1120 c0 1139 Geo Ambrew. Maple Creek, Assa. 640 c0 1120 B. J. Reinhardt. Calary, Atta. 1120 c0 1138 Atta Spread. Tanifali, Atta. 1120 c0 1139 Ben Bardt. Calary, Atta. 1120 c0 1130 Ben Bardt. Calary, Atta. 116 c0 1137 Ben Schmardt. Calary, Atta. 116 c0 1138 J. Berker. Providide. Assa. 640 c0 1137 J. Burke. Providide. Assa. 640 c0 1138 J. Berker. Prov		P Le Chat	Dattloford Sask	
111 W. B. Taorne. High River, Alta. 110-00 111 W. B. Taorne. Optotka, Alta. 100-00 113 W. Geo. Castle. Panima, Alta. 230-00 113 W. Geo. Castle. Panima, Alta. 230-00 114 D. Geo. Ambrese. Calagary, Alta. 1120-00 1130 Geo. Ambrese. Dalagar, Alta. 120-00 1131 Geo. Ambrese. Hapit Creak, and 60-00 1132 Geo. Ambrese. Hapit Creak, and 60-00 1133 Geo. Ambrese. File, Assa. 110-00 1134 Geo. Ambrese. File, Assa. 110-00 1135 B. J. Rehardt. Calagary, Alta. 110-00 1136 Geo. Ambrese. Calagary, Alta. 110-00 1135 B. J. Rehardt. Calagary, Alta. 110-00 1136 Geo. Geo. Springbank, Alta. 40-00 1135 R. J. Rehardt. Calagary, Alta. 100-00 1136 Geo. Calagary, Alta. 100-00 <td></td> <td>R. A. Teskey</td> <td>Calgary Alta</td> <td></td>		R. A. Teskey	Calgary Alta	
111 W. B. Taorne. High River, Alta. 110-00 111 W. B. Taorne. Optotka, Alta. 100-00 113 W. Geo. Castle. Panima, Alta. 230-00 113 W. Geo. Castle. Panima, Alta. 230-00 114 D. Geo. Ambrese. Calagary, Alta. 1120-00 1130 Geo. Ambrese. Dalagar, Alta. 120-00 1131 Geo. Ambrese. Hapit Creak, and 60-00 1132 Geo. Ambrese. Hapit Creak, and 60-00 1133 Geo. Ambrese. File, Assa. 110-00 1134 Geo. Ambrese. File, Assa. 110-00 1135 B. J. Rehardt. Calagary, Alta. 110-00 1136 Geo. Ambrese. Calagary, Alta. 110-00 1135 B. J. Rehardt. Calagary, Alta. 110-00 1136 Geo. Geo. Springbank, Alta. 40-00 1135 R. J. Rehardt. Calagary, Alta. 100-00 1136 Geo. Calagary, Alta. 100-00 <td>1509</td> <td>J. Poltras.</td> <td>Battleford Sask</td> <td></td>	1509	J. Poltras.	Battleford Sask	
1313 W. TROD. Carlies. 1310 <td></td> <td>W. B. Thorne</td> <td>High River, Alta.</td> <td></td>		W. B. Thorne	High River, Alta.	
1313 W. TROD. Carlies. 1310 <td></td> <td>W. J. McLaren</td> <td>Okotoks, Alta</td> <td></td>		W. J. McLaren	Okotoks, Alta	
151 Heary Clayton. Calgary, Alta. 1,120-00 151 Heary Clayton. Install, Alta. 600-00 152 Upon Gray, Hyde, Assa. 160-00 153 Upon Gray, Hyde, Assa. 160-00 154 H. Biopon. Calgary, Alta. 160-00 155 D. J. Burgaon. Calgary, Alta. 160-00 154 D. Johannen. Calgary, Alta. 610-00 153 D. Johannen. Early Alta. 130-00 153 H. B. Cesar. Calgary, Alta. 130-00 153 D. Johannen. Laltary, Alta. 100-00 153 C. Jakary, Alta. 100-00 133 154 R. Penvick. Graburn, Assa. 100-00 153 Chas. Reis.		E. Healy	Calgary, Assa	160.00
151 Heary Clayton. Calgary, Alta. 1,120-00 151 Heary Clayton. Install, Alta. 600-00 152 Upon Gray, Hyde, Assa. 160-00 153 Upon Gray, Hyde, Assa. 160-00 154 H. Biopon. Calgary, Alta. 160-00 155 D. J. Burgaon. Calgary, Alta. 160-00 154 D. Johannen. Calgary, Alta. 610-00 153 D. Johannen. Early Alta. 130-00 153 H. B. Cesar. Calgary, Alta. 130-00 153 D. Johannen. Laltary, Alta. 100-00 153 C. Jakary, Alta. 100-00 133 154 R. Penvick. Graburn, Assa. 100-00 153 Chas. Reis.		W. Geo. Castle	Panima, Alta	320.00
1200 Dohn (Gray) Hyde, Assa. 110:00 1201 Dohn (Gray) Hyde, Assa. 110:00 1202 D. J. Stoppids Righ, Assa. 110:00 1255 D. J. Stoppids Righ, Assa. 110:00 1256 D. J. Stoppids Calactry, Alta. 110:00 1257 D. J. Stoppids Calactry, Alta. 110:00 1257 J. Burke. Firokstale, Assa. 61:00 1257 J. Burke. Firokstale, Assa. 61:00 1257 J. Burke. Firokstale, Assa. 61:00 1257 D. Gessar. Calactry, Alta. 110:00 1251 D. Gessar. Calactry, Assa. 120:00 1261 J. B. Gessar. Calactry, Assa. 120:00 1263 R. Jeason. Calactry, Assa. 120:00 1264 K. Jeason. Spence Grave, Alta. 120:00 1265 W. D. Lachann. Okotoks, Alta. 160:00 1264 Meron. File Lake, Alta. 60:00 <td< td=""><td></td><td>Henry Clayton.</td><td>Calgary, Alta</td><td></td></td<>		Henry Clayton.	Calgary, Alta	
1200 Dohn (Gray) Hyde, Assa. 110:00 1201 Dohn (Gray) Hyde, Assa. 110:00 1202 D. J. Stoppids Righ, Assa. 110:00 1255 D. J. Stoppids Righ, Assa. 110:00 1256 D. J. Stoppids Calactry, Alta. 110:00 1257 D. J. Stoppids Calactry, Alta. 110:00 1257 J. Burke. Firokstale, Assa. 61:00 1257 J. Burke. Firokstale, Assa. 61:00 1257 J. Burke. Firokstale, Assa. 61:00 1257 D. Gessar. Calactry, Alta. 110:00 1251 D. Gessar. Calactry, Assa. 120:00 1261 J. B. Gessar. Calactry, Assa. 120:00 1263 R. Jeason. Calactry, Assa. 120:00 1264 K. Jeason. Spence Grave, Alta. 120:00 1265 W. D. Lachann. Okotoks, Alta. 160:00 1264 Meron. File Lake, Alta. 60:00 <td< td=""><td></td><td>Con Ambroso</td><td>Innisfall, Alta.</td><td></td></td<>		Con Ambroso	Innisfall, Alta.	
157 D. Burket. Brooklynet. Assa. 640 °C 158 P. Sullvan. Calaxry. Alta. 640 °C 159 P. Sullvan. Calaxry. Alta. 640 °C 150 P. Beveridge. Springbank. Alta			Maple Creek, Assa	640.00
157 D. Burket. Brooklynet. Assa. 640 °C 158 P. Sullvan. Calaxry. Alta. 640 °C 159 P. Sullvan. Calaxry. Alta. 640 °C 150 P. Beveridge. Springbank. Alta	1599	A H Salmon	Dien tang	
157 D. Burket. Brooklynet. Assa. 640 °C 158 P. Sullvan. Calaxry. Alta. 640 °C 159 P. Sullvan. Calaxry. Alta. 640 °C 150 P. Beveridge. Springbank. Alta		E. P. Crongulat.	Red Deer Alta	
157 D. Burket. Brooklynet. Assa. 640 °C 158 P. Sullvan. Calaxry. Alta. 640 °C 159 P. Sullvan. Calaxry. Alta. 640 °C 150 P. Beveridge. Springbank. Alta		S. J. Reinhardt.	Calgary Alta	
127 D. Burke Firoksile, Assa	1526		Calgary, Alta.	160.00
133 K. Pepertek. Graburn, Assa. [10:00] 133 K. Jason. Leibbridge, Alts. 120:00 133 C. Jason. Spense Greve, Alts. 120:00 133 C. Jason. Spense Greve, Alts. 120:00 133 C. Jason. Spense Greve, Alts. 160:00 134 D. Richam. Oketoks, Alts. 160:00 135 Greve, M. Greva. Red Deer, Alts. 160:00 134 D. Histon. Phe Lake, Alts. 40:00		J. Burke	Brookside, Assa	610.00
133 K. Pepertek. Graburn, Assa. [10:00] 133 K. Jason. Leibbridge, Alts. 120:00 133 C. Jason. Spense Greve, Alts. 120:00 133 C. Jason. Spense Greve, Alts. 120:00 133 C. Jason. Spense Greve, Alts. 160:00 134 D. Richam. Oketoks, Alts. 160:00 135 Greve, M. Greva. Red Deer, Alts. 160:00 134 D. Histon. Phe Lake, Alts. 40:00		P. Sullivan	Calgary, Alta	
133 K. Pepwick. Graburn, Assa. [10:00] 133 K. Jagono. Leikbridge, Alta. 120:00 133 C. Jagono. Spenso Grave, Alta. 120:00 133 C. Jagono. Spenso Grave, Alta. 120:00 133 C. Jagono. Spenso Grave, Alta. 160:00 135 W. D. Linchann. Okatoks, Alta. 160:00 136 Grave. Fed Deer, Alta. 160:00 136 Grave. Fed Deer, Alta. 160:00 136 Dem Marca. Fed Deer, Alta. 160:00 136 Dem Marca. Fed Deer, Alta. 160:00 136 Dem Marca. Fed Deer, Alta. 160:00 137 Dem Marca. Fed Deer, Alta. 160:00		P. Beveridge	Springbank, Alta	
133 K. Pepwick. Graburn, Assa. [10:00] 133 K. Jagono. Leikbridge, Alta. 120:00 133 C. Jagono. Spenso Grave, Alta. 120:00 133 C. Jagono. Spenso Grave, Alta. 120:00 133 C. Jagono. Spenso Grave, Alta. 160:00 135 W. D. Linchann. Okatoks, Alta. 160:00 136 Grave. Fed Deer, Alta. 160:00 136 Grave. Fed Deer, Alta. 160:00 136 Dem Marca. Fed Deer, Alta. 160:00 136 Dem Marca. Fed Deer, Alta. 160:00 136 Dem Marca. Fed Deer, Alta. 160:00 137 Dem Marca. Fed Deer, Alta. 160:00	1531	O. Johannson	Sunnymead, Assa	
1355 Coarnd Bros. Lethbridge, Aits. 15-90 137 E. Jonson. Calpary, Aits. 20 ¹⁰ 00 138 Chas. Reis. Spence Grove, Aits. 16 ¹⁰ 00 138 Chas. Reis. Spence Grove, Aits. 16 ¹⁰ 00 138 Chas. Reis. Spence Grove, Aits. 16 ¹⁰ 00 139 My T. L. Green. Okotoks, Aits. 16 ¹⁰ 00 141 Myles McArthur. Wultwood, Asna. 20 ¹⁰ 00 142 L. Histoon. Pine Lake, Aits. 40 ¹⁰ 00	1532	P. B. COSSAT	Calgary, Alta	
137 E. Jogson. Calgary, Alta. 320 00 138 Chan, Reis. Spence Grove, Alta. 160 00 139 W. D. Lincham. Okotoka, Alta. 160 00 130 Geo. W., Green. Red Deer, Alta. 160 00 134 DAytes McArthur. Whitewood, Asta. 260 00 134 L Hinkron. Pine Lake, Alta. 80 00	1534	Conrad Dros	Graburn, Assa	
1538 Chan, Reis. Spence Grove, Alta. 160:00 1539 W. D. Lincham. Okotoka, Alta. 160:00 1540 W. D. Lincham. Okotoka, Alta. 160:00 1541 W. M. Karburn. Red Deer, Alta. 640:00 1542 U. Misson. Pipe Lake, Alta. 640:00		E longon	Colorado Alta.	
1539 W. D. Lineham. 160 00 1540 Geo. W. Green. Red Deer, Alta. 640 00 1541 Geo. W. Green. Red Deer, Alta. 540 00 1542 L. Hukson. Distributer 90 00 1542 L. Hukson. 91 00 91 00		Chas. Reis.	Sponce Grove Alte	160:00
1540 Geo. W. Green. Red Deer, Alta		W. D. Lineham.	Okotoka Alta	
1541 Myles McArthur Whitewood, Assa 320'00 1542 L. Hinkson 480'00	1540	Geo. W. Green	Red Deer, Alta	640.00
1542 L. Hinkson 480.00	1541	Myles McArthur	Whitewood, Assa	320.00
1543 H. Garlough Pincher Creek, Alta 640.00		L. Hinkson	Pine Lake, Alta	
	1543	H. Garlough	Pincher Creek, Alta	640.00

Lessees of Grazing Lands-Continued.

ž			
1			
Ranche	Name,	Address,	Area in
문			Acres.
8			
1544	Mrs. A. E. Hayes	Calgary, Alta	160.00
1546	Adams & Nuttall	Maple Creek, Assa	320.00
1547	Albert Todd	Wolseley, Assa	160.00
1554	Thos. Birnie	Calgary, Alta	640.00
1556	Jos. Hope	Calgary, Alta	160.00
		High River, Alta.	640.00
1557	W. L. Christie	night River, Altan	
1558	R. O. Sykes	Stand Off, Alta	480.06
1559	A. L. T. D'Eyncourt	Calgary, Alta	1,120.09
1560	R. G. Williamson	Swift Current, Assa	2,560.00
1561	Alex. Martin	Cochrane, Alta	640.00
1562	A. Hanson	Fletwode, Assa	160.00
1563	The Bow River Horse Ranche Props	Mitford, Alta.	1,912.00
1564	Jas. John Day	Battleford, Sask	640.00
1565	Thos. P. McHugh	Gleichen, Alta	1,280.00
1566	John Lincham	Okotoks, Alta	1,215-26
1568	R. G. Armstrong	Grahurn Agea	640.00
1568	W N Iapos	Graburn, Assa	480.00
	W. N. Janes	Maple Creek, Assa	320.00
1575	W. H. A. Auger		160.00
1577	Bernard McKevitt	Calgary, Alta	
1578	Donald Cameron	Medicine Hat, Assa	1,920.00
1583	R. T. Kidd	Fairmede, Assa	160.00
1587	G. Wetmon & Son	Medicine Hat, Assa	320.00
1590	Messrs. Spencer et al	Medicine Hat, Assa	22,000.00
1591	Harold Mackintosh	Livingstone, Alta	160.00
1592	David Erickson	Fletwode, Assa	160.00
1594	Geo. Boston	Cochrane, Alta	160.00
1595	Geo. Ward	Calgary, Alta	320.00
1596	Bland Herring	Macleod, Alta	320.00
1597	Frank Collicutt.	Calgary, Alta.	640.00
		Calgary, Altan	480.00
1598	T. C. W. Riley & F. R. Riley	Calgary, Alta	320.00
1600	W. A. Lyndon	Lyndon, Alta	
1603	G. Ward	High River, Alta	640.00
1604	A. B. Carle	Medicine Hat, Alta	320.00
1607	A. Young T. E. Jackson	Calgary, Alta	160.00
1608	T. E. Jackson.	Calgary, Alta	160.00
1609		Calgary, Alta	160.00
1610	Robert Mitchell	Russell, Man. Millarville, Alta	640.00
1612	Alfred P. Welsh.	Millorville Alta	160.00
1613	Jos. H. Boston.	Grand Valley Alta	160.00
1618	C. A. Peterson.	Grand Valley, Alta	300.00
	U. A. Felerson	Calgary, Alta.	160.00
1621	Harold W. H. Riley	Whitewood, Assa	160.00
1622	Samuel Lindsay		
1623	Wm. Bruce	Calgary, Alta	640.00
1625	Chas. Cummings	Fletwode, Assa	640.00
1628	W. Harkness	Hazelwood, Assa	320.00
1630	David Hamilton	Medicine Hat, Assa	640.00
1633	Walker & Creighton	Morley, Alta	320.00
1634	John Brewster	Banff, Alta	1,280.00
1635	Robt. M. T. Elson.	Medicine Hat, Assa	2,240.00
1640	George Bell.	Millarville, Alta	160.00
1648	Thos. Dodd	Kissina, Assa	320.00
1651	The Macmillan Ranche Co	Calgary, Alta	400.00
1653	Francis Wright.	Dupmone Acco	320.00
	Francis wright	Dulliore, Assa	640.00
1654	W. H. Edge	Dunmore, Assa. Cochrane, Alta. Calgary, Alta. Pine Lake, Alta.	640.00
1655	David C. McKenzie	Calgary, Alta	640.00
1660	L. Hinkson Chas. F. McLeod	Pine Lake, Alta.	
1661	Chas. F. McLeod	Red Deer, Alta.	1,280.00
1662	C .B. McCallum	Innisfail, Alta	160.00
1663	W. H. Price	High River, Alta	160.00
1664	Wm. Harkness	Hazelwood, Assa	320.00
1665	C. W. E. Gardiner	Macleod, Alta	320.00
1666	Thos. H. Cullen	Calgary, Alta	160.00
1667	Thos. W. Robertson.	High River, Alta	960.00
1668	Wm. Moodie.	Millarville Alta	320.00
1669	P. J. Nelson	Marla Creek Ages	800.00
1669	Messrs. F. C. Vigar & J. Knudson	Maple Creek, Assa Gleichen, Alta	160.00
1670		Maple Creek, Assa.	320.00
1671	William Kerr	Maple Creek, Assa	320 00

LESSEES of Grazing Lands-Continued.

ž			
			Area in
÷.	Name.	Address.	Acres.
Ranche			
Ra			
1673	John Musson	Maple Creek, Assa	320.00
1677	John Murray	Cochrnne, Altn.	812.00
1678	John Lytie	Balgonic, Assn.	160.00
1681	Jacob Boessier.	Bulgonic, Assn	320.00
1685	Richard Newby	Maple Creek, Assa. Calgary, Alta. Mediche Hat, Assa. Mediche Hat, Assa.	320.00
1686	G. H. Mnunsell	Cnlgary, Alta	640.00
1688	H. A. Crofton	Cnignry, Alta	1,280.00
1692	Alexander Eddy	Medicine Hat, Assa	320.00
1693	John Hulgh. Jacob Boessler. Richard Newby. G. H. Munnell. H. A. Crofton. Alexandor Eddy. Jas. W. Dhumick. R. A. Kilonnid. V. Kolonnid. Vert Univer.	Medicine Hat, Assa	320.00
1695 1698	R. A. McDonnid	Carbany, Alta.	160.00
1698	Levi Harker.	Magrath Alta	5.241.00
1700		Calgary, Atta Cochrane, Alta Magrath, Alta Magrath, Alta	5,881.00
1701	Jnsper J. Head		160.00
1702	W. H. Turner.	Fletwode, Assa	160.00
1703	Alcide Marcotte	Duck Lake, Sask	800.00
1704	Wm. J. Latimer	Caigary, Alta	160.00
1705	Snmuei McCaw	Hazelwood, Assa	640.00
1706	J. R. Perry.	Calgary, Alta	1,280.00
1707 1708	Supt. Gen'l of Indian Affnirs	Ottawn, Ont Tumbell, Man	1,280.00
1709	Albert Wilton.	Whitewood Assa	320.00
1710	Edward Corss.	Whitewood, Assa Lumsden, Assa	320.00
1711	Robert Armstrong		160.00
1712	Jnmes Mnrtin	Maple Creek, Assa	960.00
1713		Hazeiwood, Assa	320.00
1714	W. Anderson	Maple Creek, Assa Hazeiwood, Assa Lineham, Alta	70.00
1717	W. Hodgkinson	Calgary, Alta. Brookside, Assa Russell, Man.	640.00
1719	F. McRae.	Brookside, Assa	320.00
1721 1722	J. Peddie & J. T. Rogers	Whitewood, Assa	640.00
1724	Mrs. A. Hammond.	Winnlpeg, Man.	640.00
1725	David Bristow.	Grierson, Alta	160.00
1730	Wm, Harkness.	Fletwode, Assa	320.00
1738	S. Gibson	Napanee, Ont	640.00
1739	John Lintner	Coulee, Assa	160.00
1740	J. J. Qunii	Medicine Hat, Assa	1,280.00
1741	Geo. W. Johnson	Horse C'k, Cochrane, Alta	640.00
1742	Edward Ciark.	Medicine Hat, Assa	2,400.00
1743 1744	Geo. A. Trent.	Graburn, Assa	640.00
1745	Guy F. Pownail	Lethbridge Alta	5,760.00
1746	J. I. Geissenger	Red Decr. Alta	1.280.00
1747	J. I. Geissenger	Lethbridge, Alta	5,600 -0
1749		High View, Assa	320-00
1750	Geo. Trenter	Mapie Creek, Assa Millarville, Alta	320 00
1711	Fred A. Jackson	Millarville, Alta	220 00
1750	Jas. McBean.	Graburn, Assa Maple Creek, Assa	320 00
1758	Herbert G. Dunn	Lethbridge, Alta	
1759	isanc Fleming.	Mapie Creek, Assa	\$20 ad
1760	N. D. Keeley.	Manitou, Man	160 90
1763	Wm. Houghton	Manitou, Man Medicine Hnt, Assa	451.00
1764	Robt. W. Baker	Hazelwood, Assa	160 (0)
1765	Finlay Kennedy	Whitewood, Assa	3.0.00
1767	Fred. Smith	Medicine Hnt, Assa	86 10
1774	H. Ebenal	Davin, Assa	221 10
	Wm. Gemmell	Davin, Assa Whitewood, Assa Caigary, Aita Burnbank, Man Medi ine Hat, Assa Cardston, Alta	
1785	Jns. Thurber	Burnhank Man	640 = 3
1786	Lewis F. Pundy.	Medisine Hat, Assa .	
1789	E. Harker.	Cardston, Alta	5,880.00
1790	C. Briggs	Graburn, Alta	2,082 =>
1791	Lewis F. Pundy E. Harker C. Briggs F. O. Sissons F. O. Sissons P. P. Comer	Medienne Hat, Assa Cardston, Alta Graburn, Alta Golden Plain, Assa Medicine Hat, Assa Wool hester, Assa Caigary, Alta	160 (0)
1792	F. O. Sissons	Medicine Hat, Assa	610 00
1793		Wool nester Assa.	640 ±0 377 ·00
1794	W. S. Talt	Cuigary, Alta	311 00

Lessees of Grazing Lands-Concluded.

No.			
~			Area in
Ranche	Name.	Address.	Acres.
2			ACTCo.
Sec.			
-			
1795	J. Hilton	Heron, Assa	160.00
1796	Wm. Croft	Maple Creek, Assa	1.600.00
1797	E. H. Botterell	Montreal, P.Q.,	640.00
1798	C. D. Strong	Walsh, Assa	996.00
1806	Jobn Irving	Disley, Assa	160.00
1808	George Morrison	Calgary, Alta	160.00
1810	W. H. Dodd	Kissina, Assa	160.00
1817	E. A. DeNevers	Fairmede, Assa	160.00
1819	C. Briggs	Graburn, Assa	320-00
1820	T. H. Cullen	Calgary, Alta	800.00
1822	David Sheppard	Oxbow, Assa	160.00
1823	Edward Schneider	Cochrane, Alta	640.00
1824	Thomas Riley	Calgary, Alta	320.00
1825	William Smith	Lumsden, Assa	320.00
1826	Thomas O'Flynn	DeWinton, Alta.	160.00
1827	W. B. Dixon	Maple Creek, Assa.	320.00
1828	Walter S. Sparks	American Falls, Idaho, U.S.A	640.00
1829	Robert Scott	Eagle Butte, Assa	2,240.00
1830	James McKenzle	Coutts, Alta	1,280.00
1831	James Mann	Maple Creek, Assa	160.00
1832	C. Schulz	Calgary, Alta	1,280.00
1833	Wm. Harkness	Hazelwood, Assa	160.00
1834	Ernest J. Peachy	Medicine Hat, Assa	960.00
1835	John C. Hargrave	Medicine Hat, Assa	824.80
1836	Robert Cummings	Fletwode, Assa.	640.00 235.00
1837	John H. Spencer.	Medicine Hat, Assa	640.00
1838	Robert Greenwood	Pine Lake, Alta	
1839	Robert McGaw.	Hazelwood, Assa	960.00
1840 1841	F. H. Wolly-Dod Arthur Blythman	Maple Creek, Assa	480.00
1841	J. F. Minor.	Maple Creek, Assa.	320.00
1843	Frank C. Haydork.	Maple Creek, Assa	320.00
1844	Andrew Young.	Calgary, Alta.	160.00
1845	Wm, Chapman.	Fitzmaurice, Assa	320.00
1846	J. J. Clements.	Fairmede, Assa.	320.00
1847	Wm. Scott.	Woolchester, Assa	320.00
1848	A. B. Carle.	Medicine Hat, Assa.	320.00
1849	Heikki Maki	Wapella, Assa.,	160.00
1850	George Marlin.	Wolseley, Assa	160.00
1851	J. Brynitson.	Pine Lake, Alta	160.00
1852	T. C. Allan.	Medicine Hat, Assa	160.00
1853	W. T. Gibson.	Coulee, Assa	160.00
1854	Amos Rowe	Calgary, Alta	320.00
1855	Herbert Gobett	Medicine Hat, Assa	320.00
1856	Mrs. Lizzie Hamilton	Woolchester, Assa	320.00
1857	Albert Dash	Hillesden, Assa	160.00
1858	E. Latellier	Sintaluta, Assa	640.00
1859	Vigar & Knudson	Gleichen, Alta	480.00
1860	C. C. Cooke	Grenfell, Assa	160.00
1861	William Small	Maple Creek, Assa	320.00
1862	R. P. Comer	Eagle Butte, Med. Hat, Assa	640.00
1863	F. Moorehouse	Calgary, Alta	640.00
1864	Dr. A. R. Turnbull	Moose Jaw, Assa	640.00
1865	W. E. Pepper	Cochrane, Alta	640.00
	Total area		605,794-75

1

The total number of leases of school lands in the province of Manitoba for grazing purposes, in force on the 22nd day of August, 1901, was 45, containing an area of 11,263 \times 5 acres, the names of the lessees, their addresses and the numbers of their ranches being as follows, viz. :--

1.2			
1.			
+	Name.	Address.	Area in
-5	Plane.		Acres.
Ĕ			
Ranche No.			
124			
	the second se		
637	H. & A. Delf	Indian Ford, Man	160.00
672	Jos. S. Yeomans	Napinka, Man	68.00
723	Simon Clark	Rounthwalte, Man	320.00
769	John Clarke.	Falrhill, Man.	480.00
789	John Kehoe	Neshitt, Man	160.00
934		Neepawa, Man.	480.00
	W. G. Pollock		
945	Wm. McKlnnon	Oheron, Man	320.00
955	P. Bourque & Alex. Birnle	Pilot Mound, Man	320.00
964	Chas. Goldstone	Brandon, Man	160.00
974	C. Boes	Winnipeg, Man	160.00
977	Wm, Hasselfield.	Manltou, Man	160.00
1006		Indian Ford, Man	160.00
	G. S. Delf, jr		
1009	W. A. Rohinson	Mariapolls, Man	160.00
1098	P. Hichert et al	Chortltz, Man	320-00
1602	R. M. Wilson,	Marringhurst, Man	160.00
1615	J. R. Paul	Manltou, Man	160.00
1619	Simpson Bros	Rosser, Man	320.00
1645	Napoleon Filteau	Grande Clairiere, Man	160.00
1646	Napoleon Filteau		
	K. Benjaminsson & r. Larusson	Gimll, Man	160.00
1647	H. R. Tolton	Oak Lake, Man	160.00
1657	James McIntyre	Westhourne, Man	51.00
1672	George Motheral	Manitou, Man	160.00
1676	Messrs. Peddle & Rogers	Russell, Man	640.00
1697	Jens E. Laxdal	Care A. R. McDougall, Shoal L'k, M.	610.00
1715	Carson Glenn.	Strathclair, Man.	160.00
1716	Rohert Forke	Plpestone, Man	640.00
1718	W. Sanderson	Souris, Man	160.00
1736	A. McFarlane	Kerfoot, Man	160.00
1748	James Jones	Elkhorn, Man.,	640.00
1756	Johann Toews.	Chortitz, Man	160.00
1769	A. H. Glbhs	Pilot Mound, Man	160.00
1778	Messrs Dow & Curry	Pilot Mound, Man	320.00
1780			160.00
	Andrew C. Houghton	Belmont, Man	
1781	Rohert Blackhurn	Pllot Mound, Man	160.00
1783	Chas. McKenzle	LaRiviere, Man	160.00
1787	Foster Hagyard	Pilot Mound, Man	153-35
1788	F. W. Cleeve	Wood Bay, Man	160.00
1801	H. W. Horner	Minnedosa, Man	160.00
1802	Robert Hall.	Brandon, Man.	131.00
1811	I W Williaman		160.00
	J. W. Williamson.	Pllot Mound, Man	320.00
1812	Adred J. Tempest & Alden J. Tempest.	Austin, Man	
1813	John Sigfusson	Mary Hill, Man	640.00
1814	Kenneth Scharf	LaRlvlere, Man	160.00
1816	J. W. Hagyard	Routledge, Man	140.20
1818	Danlel Emes	St. Paul's Parlsh, Man.	320.00
		ber A deal of A derively in that	
	Total ana		11.263.85
	Total area		11,=00 00

73

The total number of leases of school lands in the North-west Territories for grazing purposes, in force on the 26th day of August, 1901, was 227 containing an area of 77,127.98 acres, the names of the lessees, their addresses and the numbers of the ranches being as follows:—

Ranche No.			
~			Area in
Pe Pe	Name.	Address.	Area in Acres,
e no			Acres.
i i i			
478	F. W. Godsal	Pincher Creek, Alta	605.00
493	Hull Bros. & Co	Calgary, Alta.	640.00
497	J. H. Beam	Cochrane, Alta	640.00
504	W. C. H. Parlhy	Lacombe, Alta	160.00
509	W. E. Smith	Livingstone, Alta	320.00
518	Wm. Brealey	Cochrane, Alta	640.00
526	Patrick Burns	Calgary, Alta	640.00
548	W. H. Minhinnick	Kinbrae, Assa	40.00
550	John N. West	Mountain View, Alta	160.00
564	Wm. N. Janes	Calgary, Alta	320.00
587	W. Julius Hyde	Macleod, Alta	640.00
588	A. Caswell.	Maple Creek, Alta	320.00
593	Hull Bros. & Co	Calgary, Alta	640.00
594	D. McIntosh	Whitewood, Assa	320.00
623	Dept. of Indian Affairs	Ottawa, Ont	640.00
626	D. McIntosh.	Whitewood, Assa	320.00
696	A C. Fraser, jr.	Calgary, Alta	640.00
697	Chas. Spalding.	High River, Alta.	160.00
739	Herhert Anderson.	Millarville, Alta	160.00
766	S. Mitchell.	Qu'Appelle Station, Assa	170.00
778	Martin Griening.	Wolseley, Assa	160.00
780	Alberta Ranche Co	Pincher Creek, Alta.	372.00
784	Augustus Bersea	Qu'Appelle, Assa	150.00
786	W. H. Ball.	Grenfell, Assa.	640.00
795	W. E. Smith.	Livingstone, Assa	320.00
806	T MeVinnen	Dunhow, Alta.	540.00
808	L. McKinnon	Misfand Alta	160.00
847	F. H. Towers	Mitford, Alta	160.00
870	Roht. Miller	Agricola, Alta.	160.00
931	J. Cinnamon		320.00
931 941	Roht. Scott	Medicine Hat, Assa	640.00
950	Harold C. Hewitt	Abernethy, Assa	160.00
950 951	John R. Dinnin	Coteau, Assa	160.00
954	D. McDougall	Calgary, Alta.	604.00
904 958	H. Heckling.	Wetaskiwin, Alta.	74.00
959	J. C. Wilson		160-00
	S. Swart	Strathcona, Alta	640.00
993	G. A. Love	Red Deer, Alta	122.00
1010	Sven E. Sordeherg	Oblen, Assa	160.00
1011	F. Dunand	Whitewood, Assa	160.00
1014	Amos C. Mauser	Strathcona, Alta	
1022	John Hewitt	Grenfell, Assa	108.00
1025	W. T. & F. S. Clements	Fairmede, Assa	320.00
1028	Wm. W. Arnold	Lethbridge, Alta	46.00
1039	Hull Bros & Co	Calgary, Alta	640.00 89.00
1044	Von Strauss Bros	Okotoks, Alta	640.00
1045	J. Kemmis.		
1077	J. D. Caswell.	Rosthern, Sask	320.00
1081	W. A. Rowles	Gladys, Alta	
1094	J. W. Dunn	Calgary, Alta	640.00
1096	James Dick	Abernethy, Assa	160.00
1097	M. Catley	Kennell, Assa	160.00
1102	John N. West	Mountain View, Alta	80.00
1104	Thomas Banks	Indian Head, Assa	320.00
1105	John Lineham	Okotoks, Alta	154.00
1130	George Hutton	Edmonton, Alta	160.00
1156	L. Perry.	Kleczkowski, Assa	160.00
1158	J. Quesnelle	Maple Creek, Assa	640.00
1163	J. Owens	De Winton, Alta	160.00
1164	J. W. Ockley	Priddis, Alta Namao, Alta Edgeley Farm, Assa	320.00
1165	J. Harrold. W. Owen & E. S. Kent.	Namao, Alta	160.00
1167	W. Owen & E. S. Kent	Edgeley Farm, Assa	284.00
1169	A. Jorgensen	Red Deer, Alta	40.00

LESSEES of School Lands-Continued.

No.			
2.			
-	Name.	Address.	Area in
-5	_vames	Address,	Acres.
Ranche			
23			
1176	M. Dowker	Calgary, Alta	640.00
1204	F. S. Blake	Livingstone, Alta	59:00
1208	C Sharriff	Lumsden, Assa	320.00
1212	C. Sherriff. A. Atcheson. J. Mingan. T. G. Parkinson & H. & J. Davies	Brookside, Assa	320.00
1224	I Mangen	Calgary, Alta.	
1230	T C Deplement & H & I Deplem	Forest Farm, Assa.	160.00
1230	D. D. Parkinson & H. & J. Davies	Porest Farm, Assa	640.00
1231	P. Bourhls. J. J. Sage. F. Houghton.	whitewood, Assa	160 00
1232	J. J. Sage	whitewood, Assa	320:00
1234	F. Houghton.	Whitewood, Assa. Whitewood, Assa. Calgary, Alta. Four Mile Coulce, Mapie C'k, Assa.	264.00
1235	A. Chenells	Four Mile Coulce, Mapie C'k, Assa	160 (0)
1253	R. Wickham	Fairmede, Assa. Lumsden, Assa.	160.00
1254	W. R. Jamleson	Lumsden, Assa	127.00
1255	A. Prince	Moosomin, Assa.	320.00
1259	W. Pell.,		160.00
1260	A. J. T. Peach	Gladys, Alta	36.00
1285	J. Mitchell	Moosomin, Assa	640.00
1286	C. David.	Duhamel, Alta	173.00
1287	C. David	Mountain View, Alta.	640.00
1291	I Herver	Maple Creek, Assa.	480.00
1292	J. Harvey N. W. Gould	Wetaskiwin, Alta.	480.00
1292	D Wilson	Dundurn, Assa.	
1297	R. Wilson. R. Hamilton.	Dundurn, Assa	320.00
1234	R. Hamilton	Okotoks, Alta	320.00
1298	F. C. Carss.	Lumsden, Assa	160.00
1303	John W. Camphell	Lumsden, Ass	160.00
1306	C. D. Strong		738.50
1307	R. Smith	Cochrane, Alta	640.00
1308	S. Mathieson	Lumsden, Assa	129.00
1309	F. C. Carras. John W. Camphell. C. D. Strong. R. Smith S. Mathieson. M. R. Stewart.	Cochrane, Alta. Lumsden, Assa. Meadow Creek, Alta. Wolseley, Assa. Glen Ewen, Assa. High River, Alta. Lumsden Assa.	640.00
		Wolseley, Assa	160.00
1320	J. Foster	Glen Ewen Assa	155.50
1322	J. Foster	High River Alta	480.00
1327	W. I. Clark	Lumsden, Assa	154:00
1243	R. Mitchell.	Medicine Hnt, Assa	450.00
1346	F. Jackson.	Wapella, Assa.	160.00
1347	W. R. Ogler.	Montmartre, Assa	160.00
1348	W. R. Ogleri, it is it is it is it is	Montimartre, Assa	
1345	W. A. Jackson	Macleod, Alta	640.00
1365	J. Greenfield.	Grierson, Aita	640.00
1365	G. Pnckham	Pincher Creek, Alta	2) 00
1397	J. J. Sullivan	Lineham, Alta	160.00
1402	J. Dixon	Maple C'eek, Assa Calgary, Alta	480.00
1405	Sheep Creek Ranching Co	Calgary, Alta	160.00
1407	R. de Melherhe	Miilnrville, Alta	640.00
1408	Sacep Creek Kanching Co. Jas. Pearce T. Bullocka. P. B. Cleland. D. Cleland. M. Wirmy. H. Throno. G. Fyrmson.	Mininyvine, Atta	320.00
1410	T. Bullocks	Wetaskiwin, Alta	640.00
1415	P. B. Cleland.	Midnapore, Alta.	320:00
1424	Thos. W. Fetberston	Leduc, Alta	480.03
1430	G. Murrny.	Josephhurg, Alta	640.00
1432	H. Thomson	Cardston, Alta	640.00
1438	C. Eyre	Yorkton, Assa	160.00
1439		Belleville, Ont.	160.00
1470	Thos. G. Wilson.	Livingstone, Alta	480.00
1471		Coloopy Alto	640.00
1472	J. F. Bates	Caigary, Alta	166.75
	Edward Bye		
1475	Edward Connor.	Moosomin, Assa	160 00
1477	Jas. Mitchell	Springbank, Alta	100.00
1478	J. D. Cumming.	Grenfell, Assa	160.00
1480	T. Douglas	DeWinton, Alta	150.00
1481	Matilda M. Bredin.	Lumsden, Assa	320.00
1484	T. Douglas. Matilda M. Bredin. J. Wnlburger.	Mountain View, Alta	160.00
1485	F. Drager F. Bourcet & J. Perry	Wetaskiwin, Alta	610 00
1486	F. Bourcet & J. Perry.	Montmartre, Assa	120100
		Lacombe, Alta.	11 5)
1102			160.00
1493	A. Switzer. P. Bourhis. J. B. Hunter.	Regina, Assa Grenfell, Assa.	150:00
1494	P. Bourhis	Whitewood, Assa	160.00
1495	J. B. Hunter	Lacombe, Alta	420.00
1514	T. D. Hind	Cottonwood, Assa -	160.00
1011		Cotton Hood, Mana	100 00

LESSEES of School Lands-Continued.

-			
ž			
Ranche	Name.	Address.	Area in
Ich			Acres.
ar			
-			
1516	[W. J. Gedge & H. Purdy.,	Moosomin, Assa	320.00
1524 1530	D. McDonald	Priddis, Alta	320-00
1533	W. Ireton	Moosomin, Assa	160.00 320.00
1536	F. Sykora.	Millet, Alta	160.00
1545	Fred, J. Johnstone.	Gainshoro, Assa.,	480.00
1548	P. B. Cleland	Midnapore, Alta	160.00
1549	Harold Symons	Wapella, Assa	80.00
1550 1551	J. W. W. Clancy.	Regina, Assa	160.00
1551	Chas. Dudda	Wolseley, Assa Pincher Creek, Alta	160.00 176.00
1553	Alex. Barheau	Maple Creek, Assa.	160.00
1571	P. Weiler	Wetaskiwin, Alta	640.00
1572	Chas. Keith	Lumsden, Assa	160.00
1573	Jas. Clendenning	High River, Alta	640.00
1574	Dan Brox.	Spruce Grove, Alta	480.00
1576 1579	A. N. Hull	Lacomhe, Alta.	160.00
1579	R. E. Johnston	Lacomhe, Alta	320.00
1581	John Finkle.	Workman, Assa.	160.00
1582	R. J. Christie	Yarrow, Alta	320.00
1584	Frank Leavitt	Leavitt, Alta	640.00
1585 1589	W. L. Gillet	Knee Hill Valley, Alta	320.00
1589	W. J. Bingham B. Hutchinson	Mountain View, Alta	320-00 298-00
1605	Wm. Reid.	Lumsden, Assa	480.00
1606	F. Gottel.	Grenfell Assa	320.00
1614	F. Gottel. C. F. Sealund	Lewisville, Alta	160.00
1616	Geo. Gordon	Medicine Hat, Assa	320.00
1617 1620	W. J. Birnie-Brown.	Cochrane, Alta	640.00
1620	Henry D. Mills	Wetaskiwin, Alta	160.00
1624	H. Hill.	Wolseley, Assa	160.00
1627	J. Marsh & J. I. Levigne	Beaumont, Alta	345-20
1629	H. S. Nicol	Maple Creek, Assa	160.00
1631	Miss R. J. Scaman	Wetaskiwin, Alta	627-50
1636 1667	Henry Bowers	Duhamel, Alta.	320.00 640.00
1668	Roht. Scott	Eagle Butte, Alta	160.00
1669	Chas. Grager.	Lethbridge, Alta.	63.00
1641	C. J. Dawson.	Cardston, Alta	160.00
1642	Jared Paisley.	Macleod, Alta.	400.00
1643	John McVicar	Fairmede, Assa	320.00
1644 1649		Cochrane, Alta	320.00
1650	J. D. Edwards. George Douglas. John Chemelka.	Priddis, Alta.	160.00
1652	John Chemelka	Priddis, Alta	640.00
1656		Cochrane, Alta.	320.00
1658	Walter Glenn.	Leavitt, Alta	605.00
1659 1674	Wm. J. Martin.	Rosemont, Ont	640.00 480.00
1674	S. A. Anderson et al	Fletwode, Assa.	480.00
1679	Dolphis Cyr.		640.00
1680	E. J. Weatherby.	Pincher Creek, Alta.	320.00
1682	Fred. Walherger	Leavitt, Alta	279.00
1683	John C. Rathhun.	Ponoka, Alta	640.09
1684 1687	W. C. Jamleson.	Calgary, Alta	160.00
1689	Carl C. Johnston Joshua Davles	Lethhridge, Alta	160.00
1690	Thomas A. Steven.	Lethhridge, Alta	88.00
1691	A. L. Ramsay	Olds. Alta	320.09
1694	Jas. Robertson	Medicine Hat, Assa	640.00
1696	Messrs. Cartier & Belguin.	Wetaskiwin, Alta.	320.00
1720 1723	C. D. Plunkett.	Plncher Creek, Alta	640.00 640.00
1726	John Lineham	Longlaketon, Assa.	160.00
1727	H. Hood.	Grenfell, Assa	640.00

LESSEES of School Lands-Concluded.

Ranche No.	Name.	Address.	Area in Acres.
1733 1734 1735 1737 1753 1754 1754 1761 1766 1768 1768 1770 1771 1772 1773 1776 1779 1782 1778 1784 1799 1800	Derre Baurhle	olden Pisin Assa. Lethbridgo, Aita. Wayne Co., Nebraska, U.S.A. Wayne Co., Nebraska, U.S.A. Waynella, Assa. Calgary, Ata., Johno, U.S.A. Rosthern, Sank. Macleod, Aita. Macleod, Aita.	160-00 640-00 160-00 120-00 40-00 40-00 640-00 640-00 640-00 160-03 640-00 160-03 660-00 160-00 660-00 160-00 660-00 160-00 660-00 160-00 610-00

Нау.

The following statement shews the names of persons who hold leases of Dominion lands for hay purposes :--

	1		Acres.
450	J. Gilchrist	Castleavery, Man	30.00
483	Wm. Thompson	Virden, Man	20.00
489	Frank L. Engman	Scandinavia, Man	40.00
960	Chas. A. Peaker	Yorkton, Assa	40.00
961	Jas. E. Peaker	Yorkton, Assa	40.00
1023	J. W. Thoroughgood	Moose Jaw, Assa	40.00
1035	John A. Brooks	Tumbell, Man	40.00
1043	F. C. Hawkins	Moose Jaw, Assa	12.00
1083	A. McKeown	Caron, Assa	40.00
1087	C. V. Carlson	Scandinavia, Man	37-00
1288	J. F. McVey	Tamarisk, Man	40.00
	Total area		379.00
	and the second se	and the second se	

Statement giving the names of persons who hold leases of school lands for hay purposes.

Acres. 261 H. Anticknap. Regina, Assa. Gagen & à Court. Moose Jaw, Assa. W. A. Thompson. Pine Lake, Alta. G. R. McCartray. Moose Jaw, Assa. 160.00 404 160.00 462 160.00 160.00 640.00

The following is a statement of the office work performed from July 1, 1900, to July 1, 1901;---

	Number.
Letters sent	25,840
Pages of memoranda and schedules	7,697
Plans and sketches prepared	456
nber—	

Berths applied for	253
" granted	118
" cancelled	43
Licenses for timber borths prepared (in duplicate)	371
Instructions issued for survey of timber berths	29
Returns of surveys of timber berths examined	8
Returns of saw-mills received and verified	1,791
Permits to cut timber issued by agents also entered and checked	5,276
Accounts kept posted	484
Timber seizures entered and checked	223

Tin

Grazing-

λ

Applications for grazing lands received	862
Leases of grazing lands authorized to be issued	339
Leases of grazing lands issued	241
Applications for hay lands	56
Accounts kept posted: Grazing	957
" " Hay	15
Hay permit forms used by the Dominion Lands agents, also	
entered and checked over at this office	5,171
ining—	
Accounts kept posted	1,551
Applications for eoal locations received	860
Returns of survey hydraulie mining locations examined	31
Applications for mining locations other than coal	41
New entries and renewals for mining locations granted in	
Manitoba and North-west	46
New entries and renewals for mining locations granted in	
Yukon Territory	
Applications for petroleum	41
Water power.	4
Bed-roek flumes	1
Applications for hydraulic mining locations	140
Applications for gold dredging	26
Hydraulie mining leases prepared.	20
Gold dredging leases prepared	60
	00
rigation—	
Applications re irrigation recorded	16
Memorials examined	39
Plans examined	27
Authorizations for construction of ditches issued	14
Assignments of irrigation applications examined and recorded	4
Certificates issued by inspector, examined and recorded	27
Cancellation of irrigation applications issued and recorded	19
Irrigation lieenses issued (in triplicate)	23
Drafts of patent for free right of way aeross Dominion and	
school lands prepared	2
iscellaneous—	
Applications to purchase or lease land in the Yukon Territory	
received and dealt with during the course of the year	103
Leases for water frontage and for other purposes prepared and sent to the Commissioner of the Yukon Territory	27
sent to the commissioner of the 1 ukon ferritory	21

Chief Clerk.

DOMINION LANDS REVENUE

STATEMENT of Receipts on account of Timber, Grazing, Hay,

	Month	Timber	GRAZINO	7 LANDS.	HAY LANDS.					
	Month	Dues.	Scrip.	Cash.	Serip.	Cash.				
	1900.	8 cts.	8 cts.	8 cts.	8 cts.	8 cts.				
July. August September October November. Deceniber		$\begin{array}{rrrr} 12,793 & 19\\ 21,968 & 61\\ 15,514 & 22\\ 23,966 & 90\\ 16,860 & 62\\ 14,630 & 57 \end{array}$	$\begin{array}{r} 396 & 71 \\ 538 & 74 \\ 288 & 43 \\ 9,684 & 99 \\ 157 & 75 \\ 589 & 63 \end{array}$	$\begin{array}{cccc} 594 & 26 \\ 356 & 37 \\ 248 & 42 \\ 353 & 97 \\ 312 & 42 \\ 502 & 46 \end{array}$	20 06	$\begin{array}{r} 4,673 & 45 \\ 1,439 & 50 \\ 295 & 40 \\ 345 & 72 \\ 15 & 00 \\ 31 & 30 \end{array}$				
	1901.									
January February. March April May June Over deposit		$\begin{array}{c} 9,224 & 30 \\ 11,555 & 85 \\ 10,669 & 56 \\ 10,926 & 12 \\ 41,939 & 13 \\ 19,350 & 23 \\ 0 & 02 \end{array}$		$\begin{array}{c} 603 & 91 \\ 389 & 22 \\ 494 & 48 \\ 398 & 54 \\ 252 & 71 \\ 219 & 52 \end{array}$		1,905 55				
		209,399-32	14,671 99	4,726-28	20 00	13,994 77				

TIMBER AND MINES BRANCH, OTTAWA, August 26, 1901. 1

(YUKON REVENUE INCLUDED).

Mineral and Irrigation for the fiscal year 1900-1901.

Coal.	Irrigation.	Mining fees.	Dredging, N.W.T.	Dredging, Yukon.	Hydraulic, Yukon.	Royalty on Gold.	Free Miner's Certificates.	Total.
\$ cts.	S ets.	8 cts.	8 cts.	8 cts.	8 cts.	S cts.	8 cts.	8 cts.
$\begin{array}{c} 10 & 00 \\ 5 & 15 \\ 6 & 10 \\ 31 & 80 \\ 10 & 45 \\ 114 & 50 \end{array}$	30 00 10 00 20 00 	$\begin{array}{c} 23,829 \ 50 \\ 38,424 \ 65 \\ 25,314 \ 45 \\ 34,761 \ 00 \\ 36,486 \ 55 \\ 49,926 \ 10 \end{array}$	100 00		$\begin{array}{c} 1,548 & 26 \\ 1,800 & 00 \\ 1,806 & 25 \\ 1,506 & 00 \\ 875 & 00 \end{array}$	$\begin{array}{c} 196,364 & 96 \\ 121,914 & 81 \\ 92,163 & 09 \\ 31,772 & 73 \\ 2,509 & 15 \\ 1,459 & 54 \end{array}$	$\begin{array}{c} 10,830 \ 00\\ 9,361 \ 00\\ 10,081 \ 00\\ 13,436 \ 00\\ 7,134 \ 00\\ 5,355 \ 00 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccc} 40 & 00 \\ 100 & 00 \\ 70 & 00 \\ 20 & 00 \\ 20 & 00 \\ 3 & 00 \end{array}$	$\begin{array}{r} 14,409 & 40 \\ 18,564 & 50 \\ 33,967 & 75 \\ 31,404 & 00 \\ 18,712 & 75 \\ 23,717 & 15 \\ 0 & 50 \end{array}$	50 00 50 00 50 00 1,450 00 600 00	1,000 00 1,20 00 450 00	$ 401 \ 81 \\ 500 \ 00 $	1,832 65 2,641 79 1,115 23 6,915 63 10,728 39 126,950 06	4,715 00 8,854 00 13,464 00 14,935 00 16,124 00 11,572 00	$\begin{array}{r} 35,069 \ 17\\ 43,260 \ 16\\ 61,246 \ 63\\ 69,497 \ 83\\ 91,259 \ 77\\ 186,131 \ 16\\ 0 \ 52 \end{array}$
925-90	313 00	349,518 30	3,000 00	2,650 00	11,412 32	596,368 03	125,861 00	1,332,860 91

5	
Ē	
C:	2
£	
U	2

B.-STATEMENT of Receipts on account of Timber, Grazing, Hay and Coal, on School Lands for the facal year 1900-1901.

Totals.	8 cta. 1,588 89 1,582 89 1,582 89 1,582 89 1,582 89 1,582 89 1,583 80 1,085 10 1,085 11 6,613 40 1,085 16 1,138 62 8,482 17 8,482 17 8,482 17
Saskatche- wan School Lands,	**************************************
Alberta School Lands.	 cts. cts. transition of the state of the sta
Assiniboia School Lands.	* cts. 153 06 103 97 115 06 115 06 112 91 112 01 112 73 112 73 113 74 113 74 114 74 115 74 11
Manitoba School Lands,	\$ cfs. 281 16 281 16 281 16 281 16 281 16 281 16 112 48 112 48 112 48 112 48 112 48 112 48 112 48 112 48 112 48 113 48 114 48 11
Totals.	8 cts. 1,550 81 1,550 81 1,520 81 1,520 81 1,520 81 1,520 10 1,520 10 1,230 10 1,330 10
Coal Lands	60 00 00 00 00 00 00 00 00 00 00 00 00 0
Hay Lands, Coal Lands	8 cts. 1,220 0.55 1,220 0.55 1,220 0.55 1,220 0.55 1,30 00 1,10 0.55 1,10 0.55 1,20 0.55 1
Grazing Lands.	* cth. 257 55 257 55 251 55 251 55 251 55 251 55 75 25 75 21 241 57 251 57 241 57 251 57 241 57 251 57 241 57 251 57 241 57 251 57 251 57 251 57 251 57 57 57 57 57 57 57 57 57 57 57 57 57 5
Timber Dues.	* cfs. 22 35 33 75 34 75 35 10 111 31 113 31
Month.	1900 July September September September Discontine Disc

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

TIMBER AND MINES BRANCH, AUGUST 26, 1901. DOMINION LANDS REVENUE. (YUKON REVENUE INCLUDED.)

SESSIONAL PAPER No. 25

5	Irrigation	Revenue.	\$ cts.											00 86	40 00	160 00 313 00	941 00
Hay, Minerals and Irrigation on Dominion Lands from July 1, 1872, June 30, 1901, inclusive.	Rent of Mill Site	Serip.	\$ cts.								1121-00						160.00
ds from J	Stone		8 cts.				33 91	105 00	21 78	17 1	136 52	92 H	413 91	6 42 31 50	27 25	72.50	1.161 94
ninion Lan	Cost Lands	whiter book	& cts.				40.00	106 801	00 01	14 (8)	188	67 70	2005	19 19 19	401 53 170 60	149 15 995 900	41 (i6) 14
on on Don	HAY LANDS.	Scrip.	\$ cts.							00 08						20 00 20 00	200 00
nd Irrigati inclusive.	HAY I	Cash.	\$ cts.					23 00			8,832 06 7 801 20				6,620 64	15,200 70 13,994 77	103,923 22
Hay, Minerals and Irriga June 30, 1901, inclusive.	LANDS.	Scrip.	S cts.								9,021 63 16,192 57	17,222 60	1,087 86 8 698 00	6,255 90 2.560 00	510.39	4,083 30 14,671 99	180,762-49
	GRAZING LANDS	Cash.	\$ cts.				2,245 00 99 844 43	11,370 60	29,562 51	5,922 47	1,305 37	3,726 80	5,740 79	7,071 86	4,728 58	8,382 N6 1,726 25	165,942-92
imber, Grazi	Timbre Dum	Sand Land	& cta.	109 25 2,710 55 2,335 25	387 00 320 00 1.629 00	325 (M) 25,121 46	58,753 14 58,753 14 90,065 46		64,820 31	02 196'16 04 100'16	N4,642.95 109 GPD 71	106,461 35	81,290 51	61,923 47 (8,942 82	119,313 78	126,345 N2 200,399 32	2,060,998-94
CREVENUE on account of Timber, Grazing,	Minord Vision	r awar.	Contraction of the second														? otal
25—i	-68			1872-73 1873-74 1874-75	1875 76 1876 77 1876 77	08 6781 1878 79	1881 82 1881 82	1863 81	18%5 %6	NA LINA	18860 101 18860 101	1801 92 1400 0.2	16 8981	1805 001	1897 98	18261 19500	

83

_
- 6
8
A
Б
- 12
5
ž
- 83
22
z
- P.
ä
Z
0
~
12
Z
1
æ
12
00
\mathbf{z}
1
н
1.0
\mathbf{z}
0
\simeq
Z
Ĭ
2
8

C.--REVENUE on account of Timber, Grazing, Hay, Minerals and Irrigation on Dominion Lands from July 1, 1872, to June 30, 1901, industry---Concluded,

	-	2							_												
Yearly Totals Added from	Ber	\$ cts.	109 25 2,819 80	0,130 0 5,542 0	5,862 05 7,482 05	10 208'2 20 208'2	8 926 19	239,819 79	399,814 30	500, 194-76 603-993-49	724,486 07	850,750 H		1,199,173 67	1,462,255 85	1,563,218 14	1,737,573 34	1,822,307 35	3,940,163 68	0,124,654 20 6,457,495 11	
	Yearly Totals.	& cts	2,710 55 2,710 55	00 288 2008 2	1,620 00	325 00 25.121 46	32,028 34		159,994 60	100,380 37	120,492 58	126,264 03	104,212,23	130,964 47		100,962 31	81,064 74	100 808	1,293,838	1,184,470 52 1,332,860 91	6,457,495 11
Free	Muer's Certificates	8 cts.																		126,709 80 125,861 00	596,168-82
Royalty	Territory.	\$ cts.																77 867 286	675,812 79	733,041 04 596,368 03	2.192.645 41
	Hydraulic Leases, Yukon Ter.	8 cts.																100.001	8,525 00	6,868 15 11,412 32	27.305 47
	Dredging Leases, Yukon Ter.	\$ cts.																		2,650 00	139,655 50
MINING LANDS.	Fees, Yukon Territory.	\$ cts.														5 00	88	1,220 00	303,665 65	348,658 30	953 297 59
MINING	Fees, British Columbia.	\$ cts.										00 100	109 00	88	20 DT	27 00	2 00 2	\$ 2	38		348 80
	Dredging Leases, N.W.T.	8 cts.								100.00										3,000 00	20,262 71
	Fees, Man. and N.W.T.	\$ cts.							14 00	222 00 157 00	135 00	212 00	00 11	150 00	20 112	34 00	205 00	1,899 00	1,184 61	1,241 50 860 00	9,306 16
	Fiscal Y ear.		821		- 30	7.9		2 09				282			3			G		1000	Total
			872 7	1-018	1 128	2 228	8 ()88	882 8	883-8	8.088	8-988	NAN NAN	6 (388)	6-068	892-9	6-268	96-2681	5 15%	66 868	0061-1369 0061-1369	

D.--STATEMENT showing the Revenue derived from Timler, Grazing, Hay, Stone Quarries and Coal Lands, commencing with the Fiscal Vast 1882-4 and ordered from 30-1991

	Total.	8 CBA 8 CBA 8 5 50 11,2554 11 11,2554 11 11,2554 15 11,2554 15 11,555	48,536.77
	District of Saskatche- wan.	· · · · · · · · · · · · · · · · · · ·	738 57
	District of Alberta.	 Cth. <li< td=""><td>8,715 88</td></li<>	8,715 88
	District of Assiniboia.	 Cfs. Cfs. (1,096) 61 (1,096) 61 (1,096) 61 (1,096) 61 (1,096) 61 (1,096) 61 (1,096) 11 (1,096) 11 (1,096) 11 (1,096) 11 (1,096) 11 (1,066) 15 (1,06	8,832 64
1301.	Province of Manitoba.	 Ch. Ch.	30,249 68
tear 1883-4 and ending June 30, 190	Total.	 Charles Construction Charles Construction	48,536 77
	Stone Quarries.	8 ets. 17 50 0 45	17 95
	Coal Lands.	A CEN. 5 60 50	108 01
	Ifay Lands, Coal Lands.	 Cts. <li< td=""><td>25,004 57</td></li<>	25,004 57
	Grazing Lands,	 cfs. 203 19 203 11 204 19 204 19	12,404-21
	Timber Duce.	 Ch. Ch.	10,974 23
	Flocal Year.	14 (1997) 1990 (1997) 1990 (1997) 1990 (1997) 1990 (1997) 1990 (1997) 1990 (1997) 1991 (1	'Fotal

SESSIONAL PAPER No. 25

1.1
2
æ
\sim
2
5
2
=
8
F
z
0
3
E.
\mathbf{i}
⊳
Ē
E
1
۲
ы
S
z
5
$\overline{}$
×
×
ų.
4
\mathbf{Z}
$_{\circ}$
E
-
1
Z
2
-
~
EA.
è
-

E.-STATEMENT of Receipts from Timber, Grazing, Hay, Hydraulic Mining, Royalty on Gold and Mining Fees for the Fiscal Year 1900-1901.

		1-2	EDWARD VII., A. 1902
Amount.	 cts cts 239, 367 79 239, 467 29 138, 467 20 138, 567 20 63, 220 21 63, 220 21 	24.312 75 33,908 86 51,867 49 57,001 42 57,001 42 67,989 05 163,988 05 163,988 05 163,988 05 163,988 05 163,988 05	
Royalty on Gold.	<pre>% cts. % cts. 196,384 96 92,103 09 331,773 09 331,773 73 2,509 15 1,459 54</pre>	1,832 65 2,641 79 1,115 23 6,915 53 10,728 56 10,728 56 126,0738 66 596,388 05	
Free Miner's Cettificates.	8 cts. 10,830 00 10,830 00 10,831 00 13,435 00 17,1345 00 5,335 00	4.715 00 8,884 00 13,464 00 14,925 00 16,123 00 11,572 00 11,572 00 11,572 00	
Hydraulic.	* cts. 1,548 26 1,566 00 1,506 00 1,506 00 1,506 00 875 00	1,850 00 500 00 401 81 500 00 525 00 11,412 32	
Dredging.	60 00	1,000 00 1,200 00 450 00 2,650 00	
Hay Lands. Mining Fees.	 cts. cts. 23,307 50 23,316 90 23,316 90 23,316 90 35,316 90 49,816 60 49,816 60 	14,371 90 18,554 50 33,880 25 33,880 25 18,680 60 18,680 60 18,680 60 23,694 65 23,694 65 348,658 30	
Hay Lands.	8 cts. 1,923 00 945 00 317 92 15 00 15 02	100 00 553 00 4,037 42	
Grazing Lands.	90 	51.20	
Timber Dues.	8 cts. 6,652 33 8,411 32 8,411 32 14,802 456 14,802 456 8,931 71 8,931 71	492 00 5,388 57 3,044 29 8,323 41 2,633 69 2,633 69 74,893 80	амсн. 2, 1901.
Month.	1 uby. August August Soptember Novenher December 1901.	January February March March Mary June Over paid. Total	Tinere and Mines Branch. August 22, 1901.

86

×
1
\simeq
5
Ì.
\simeq
2
12
-
-
Z
0
Ξ
14
En la
1
\geq
r .
1.7
ineri
-
E
-
Z
2
9
-
2
2
2
- 14
Z
9
Sec.
-
1.
E
E
VE
EVE
EVE
VE

SESSIONAL PAPER No. 25 E.-STATEMENT of Receipts from Timber, Grazing, Hay, Hydraulie Mining, Royalty on Gold and Mining Fees for each fiscal year from

	Jul	r I, 1894,	July 1, 1894, to June 30, 1901.	1901.				
Revenue from	1894-1895.	1895-1896.	1895-1897. 1895-1897.	1897-1898.	1898-1899.	1889-1980.	1900-1901.	Totals,
Timber Dues Consistent Lands	\$ ctx.	& cts.	8 cta.	\$ cts. 43,911 71	8 cts. 54,097 64	& cts. 35,448 46 35,468 46	\$ cts, 74,803 80	8 cta. 208,371 61
Hay Lands Gold Dreignig Leases Updraule Mining Leases Royatty on Gold.				$\begin{array}{c} 29 & 50 \\ 132,505 & 50 \\ 500 & 00 \\ 287,423 & 55 \end{array}$	1,733 50 3,500 00 8,525 00 575,812 79	7,596 75 1,000 00 6,868 15 733,041 04	01 20 4.057 42 2.650 00 11,412 32 566,368 03	151 20 13,417 17 139,675 50 27,305 47 2,192,645 41
Atomic Feese Grante - Placer Renewals			1,140 00	108,396 00 33,524 94	179,415 00 64,980 10	20,240 00 62,250 00	79,358 00	388,949-00 210,620-04
Relocations Grams Quark	5 00	22 00	00 00	243 00	3,270 00	11,070 00	45,137 00	73,832 (0) 14,445 (0)
Assignments of work. Assignments. Abstracts.				3,060-00	23,419 00 3,750 95	3,410 00 12,644 50 5,551 60	11.531 00	50,654 50 50,654 50 12,641 20
Astatomnets See Kock Flumes Certificate of Partnership				30.00	1,400.00	201 50	081.50	205 00 1,400 00 1,005 50
Bond Fees Forfeited Fees Jaw Overs			20.00		507 50	620 00	0,518 (0)	1,420 00 9,518 00 547 540
Payment in lieu of assessment work Payment in lieu of assessment work with penalty					100 00	7,000.00	28,409-40 10,500-00	36,109 40 13,500 00
Water Eights Sale of the verminent Reserve on Dominion Creek.				00 829	00 091	8,032 50 762 50 13,593 20	1,056 00	25,944 50 1,472 50 14,649 20
Date of convertment Jamas Information the mene of a Cham						9 8 8 8 8 8 8 8 8	87,241 50 60 00	87,391 50 525 00 85 00
Inapsetories Genthicates Court Frees Over-deposit							30 00 686 75 0 50	30 00 686 75 0 70
	2 00	22 (0)	1,220 00	610,257/20	947,334 58	938,461 10	1,038,091,07	3,535,790 95
Free Miners' Certificates.								596,168 82
	Grand total	total						4,131,959 77

1-2 EDWARD VII., A. 1902

YUKON REVENUE.

G.-STATEMENT showing the total Gold production, the total exemption, the total amount upon which the 10 p. c. royalty was collected, and the amount of royalty paid as shown by returns from May 1, 1389, to June 30, 1598.

Month.	Total	Total	Royalty 10 p.c.	Royalty 10 p.c.
	GoldProduction.	Exemption.	Collected on	Paid.
1898. May June.	8 cts. 45,277 00 3,027.496 20 3,072,773 20	8 cts. 10,850 00 342,550 00 353,400 00	8 cts. 34,427 00 2,698,501 20 2,732,928 20	8 cts. 3,442 70 269,850 12 273,292 82

TIMBER AND MINES BRANCH, OTTAWA, August 26, 1901.

YUKON REVENUE.

H.-STATEMENT showing the total Gold production, the total exemption, the total amount upon which the 10 p. c. royalty was collected and the amount of royalty paid as shown by returns from July 1, 1898, to June 30, 1899.

Month.	Total Gold production.	Total Exemption.	Royalty 10 p.c. Collected on	Royalty 10 p.e. Paid.
1898.	\$ cts.	8 ets.	8 cts.	8 cts.
July . August . September . October . November . December .	$\begin{array}{c} 928,818 & 00 \\ 395,045 & 50 \\ 251,547 & 70 \\ 13,669 & 65 \\ 4,851 & 56 \\ 8,719 & 55 \end{array}$	$\begin{array}{c} 135,000 \ \ 00 \\ 140,000 \ \ 00 \\ 64,540 \ \ 00 \\ 2,496 \ \ 00 \\ 2,912 \ \ 00 \\ 624 \ \ 00 \end{array}$	$793,818 \ 00$ $255,045 \ 50$ $187,007 \ 70$ $11,173 \ 65$ $1,939 \ 56$ $8,095 \ 55$	79,381 80 25,504 55 18,700 75 1,117 37 193 95 809 55
1899. January February March. April. May. June.	$\begin{array}{c} 6,552&76\\ 4,808&29\\ 15,431&40\\ 43,889&57\\ 844,606&18\\ 5,064,282&86\end{array}$	4,784 00 624 00 3,952 00 15,400 09 180,708 00 1,148,622 02	1,768 76 4,244 29 11,479 40 28,489 57 663,903 18 3,915,660 84	$\begin{array}{r} 176 & 94 \\ 424 & 41 \\ 1,147 & 93 \\ 2,848 & 92 \\ 66,300 & 28 \\ 391,565 & 92 \end{array}$
Royalty paid into Court	7,582,283 02	1,699,657 02	5,882,626 00	588,262 37 1,301 24 195 41
" " " betw	een 3 and 4			184 50 589,943 52

TIMBER AND MINES BRANCH, OTTAWA, August 26, 1901.

1

YUKON REVENUE.

I.—STATEMENT showing the total Gold production, the total exemption, the total amount upon which the 10 p. c. royalty was collected, and the amount of royalty paid as shown by the returns from July 1, 1899, to June 30, 1900.

Month.	Total Gold Production.	Total Exemption.	Royalty 10 p. c. Collected on	Royalty 10 p. c. Paid.
1899, July. August September. October. November. December.	 cts. 664,205 72 521,708 96 924,907 99 371,947 82 176,599 48 84,531 76 	\$ cts. 208,380 82 311,740 16 187,413 90 63,863 02 29,688 48 31,976 26	\$ cts. 455,824 90 1,209,908 80 737,493 10 308,084 80 147,511 00 52,555 50	8 ets. 45,582 49 120,996 88 73,749 31 30,808 48 14,751 10 5,255 55
1900. January Pebruary March April May June	$\begin{array}{r} 42,179&62\\ 96,968&23\\ 59,839&70\\ 796,866&25\\ 5,069,710&01 \end{array}$	$\begin{array}{c} 19,333 & 22\\ 42,500 & 33\\ 21,667 & 80\\ 313,642 & 65\\ 1,272,137 & 91 \end{array}$	$\begin{array}{c} 22,846 & 40 \\ 54,467 & 90 \\ 38,171 & 90 \\ 483,223 & 60 \\ 3,797,572 & 10 \end{array}$	2,284 64 5,446 79 3,817 19 48,322 36 379,757 20
The Comment data	9,809,464 64	2,501,744 64	7,307,720-00	730,771 99
Trespass on Government claims				733,041 04

TIMBER AND MINES BRANCH, OTTAWA, August 26, 1901

YUKON REVENUE.

J.—STATEMENT showing the total Gold production, the total exemption, the total amount upon which the royalty was collected, and the amount of royalty paid as shown by returns from July 1, 1900, to June 30, 1901.

Month.	Total Gold Production.		Total Exemption.	Royalty payable on		Royalty Paid.	
1900.	's i	cts.	8 cts.	8	cts.	8 c	
July August September. October. November December.	2,346,440 1,354,543 1,012,731 378,991 63,591 14,595	88 48 50 79	$\begin{array}{c} 410,399 \ 99 \\ 137,500 \ 00 \\ 91,100 \ 00 \\ 40,000 \ 00 \\ 38,500 \ 00 \end{array}$	1,936,040 1,219,148 921,630 338,990 25,091 14,595	10 90 17 79	$\begin{array}{c} 193,707 \\ 121,914 \\ 92,163 \\ 31,772 \\ 2,509 \\ 1 \\ 1,459 \\ 5\end{array}$	
1901.							
fannary ?ebruary March. April. May June.	28,486 34,923 13,651 65,156 183,953 3,665,015	53 91 32 75	$\begin{array}{c} 10,000 & 00 \\ 10,000 & 00 \\ 2,500 & 00 \\ 5,000 & 00 \\ 40,833 & 33 \\ 1,141,833 & 30 \end{array}$	18,486 24,923 11,151 60,156 143,119 2 523,182	53 91 32 67	$ \begin{array}{c} 1,832 \\ 2,492 \\ 1,115 \\ 6,015 \\ 10,728 \\ 126,950 \\ \end{array} $	
-	9,162,082	79	1,927,666 62	7,236,517	73	592,660 9	
respass on Government claims						3,707 6	
						596,368 0	

TIMBER AND MINES BRANCH, OTTAWA August 26, 1901.

YUKON REVENUE.

K.-STATEMENT showing the Revenue collected on Free Miner's Certificates issued at the following places in Great Britain and the Dominion of Canada, during the years (1998, to June 30, 1901.

	1897-1898.	1898-1899.	1899-1900.	1900-1901.	Total.
Agency.	1897-1898.	1898-1899.	Detter Linder	1900-1901.	Total.
	S Cts.	8 cts.	8 cts.	S ets.	8 cts
Agent of Dominion Lands :-					
Brandon, Mau.		10 00	30-00	111 ALC 111	40-00
Calgary, Alta.	650 00	100 00	260 00	215 00	1,225 00
Dauphin, Man	8.394 00	490 00	1.000.00	213 00	10.00
Edmonton, Alta	50.00	20.00	10.00	10 00	50,037,00
Kandoops, B.C., Lethbridge, Alta.	00 10	20 00		30.00	49.00
New Westminster, B.C.	130.00		30 00	30 00	
Prince Albert, Sask.		10.00	10 00		730 00
Winnipeg, Man.	570 00	900-002	320 00	280 00	2,070 00
Agencies within the Yukon :					
Dawson		169,152 00	79,526-00	76,260 00	324,938 00
Dalton Trail		710 00	300.00	30.00	1,040 00
		3,950 00	8,284 00	7,219 00	19,453 00
Fort Cudahy.		350 00	1,140 00	140 00	1,630 00
Grand Forks			18,298 00	18,893 00	64,693 00
Gold Run			170 00	4,367 00	4,537 00
Hunker Creek			3,850 00	5,216 00 930 00	9,066 00 1,020 00
Hootalinqua. Lake Bennett.	7,904 00	80.00	20 00		7,984 00
McQuestion.	1,004 00		10 00		112 00
Sullively		105 00	1,952 00	405 00	2.357 00
Selkirk. Stewart River		5 734 00	1.512 : 0	1,919 00	9,165 00
			610 00	1.984 00	2,594 00
Tagish (Wood) Tagish (Miller). Tagish Lake Forty Mile River.		2,416 00			2,416 00
Tagish (Miller).		642 00	4,646.00	2,600 00	7,888 00
Tagish Lake		9,246 00			9,246 00
Forty Mile River.				600 00	G(R) 00
Upper Stewart River.				130 00	130 00
Collectors of Customs :-					
Asheroft, B.C	410 00		·	·	410 00
Atlin, B.C.		1,000-00 600-00	760 00	750 00	2,510 00
Glenora, B.C	410 00 840 00	176 00	70.00	30.00	1,010 00
Nauaimo, B.C.	4/292/00	176 00			4.292 00
Rossland, B.C	4,292 00				4,252 00
Toronto Ont	270 00				270 00
Toronto, Ont Vancouver, B.C.	30,484 00	1.340 00	610 00	280 00	32,714 00
Victoria, B.C.	58,910 00	1,528 00	520.00	370 00	61.328 00
Ottawa, Department of the Interior	1,890 00	822 00	2,192 00	2,495 00	7,399 00
Rat Portage, P. H. Austin		340 00	350 00	300 00	1,020 00
London, The High Commissioner	29 98	120 00	119 80	195 00	464 78
Liverpool, The Immigration Agent,	219 93				219 93
Glasgow, The Immigration Agent	59-98	10 13			70 11
(Tr. e. 1	110.010.00	Date 12 1 10	100 200 20	105 001 00	FOR 100 00
Total	116,243 89	227,354 13	126,709 80	125,861 00	596,168 82

TIMBER AND MINES BRANCH, OTTAWA, August 26, 1901. 91

1

No. 20.

REPORT OF THE CROWN TIMBER AGENT AT WINNIPEG.

Department of the Interior, Crown Timber Office, Winnipeg, July 1, 1901.

The Commissioner of Dominion Lands, Ottawa.

Sig.--I have the honour to submit my report of the Winnipeg Crown timber agency for the year ended June 30 last. Schedules 'A' and 'B' containing the usual statistical information, are appended hereto.

The following statement may be accepted as showing approximately the quantities of lumber disposed of during the year in Manitoba :---

Feet, B.M.

Rat Portage Lumber Co., Rat Portage, Ont	55,000,000
Beaver Mills, Rainy River, Ont	6,000,000
Keewatin Mills, Keewatin, Ont	12,000,000
Savanne Mills, Savanne, Ont	5,000,000
Port Arthur Mills, Port Arthur, Ont	4,000,000
Fort William Mills, Fort William, Ont	8,000,000
Imported from British Columbia	16,000,000
Manufactured under government license in Manitoba	23,532,300
Cut under Dominion government permits for sale	4,000,000
Taken under settlers' free permits (approximately)	6,000,000
Manufactured lumber imported from the United States	11,000,000

150,532,300

Although of the above quantity about 25,000,000 feet B.M., in the log, were imported from the United States, it is satisfactory to observe that, as regards manufactured lumber, our importation from the States is decreasing year by year. In the period to June 30, 1900, the quantity imported was in excess of 24,000,000 feet, while for the year now reported the quantity is but 11,000,000.

There is also a noticeable reduction in the quantity of shingles imported from the United States :---

Imported	for	year	ending	June	30,	1900	 	 10,235,000
Imported	\mathbf{for}	year	ending	June	30,	1901	 	 2,340,000

The American shingle is evidently being forced out of the market by the British Columbia product.

The prices for the various classes of manufactured lumber, lath and shingles are pretty much the same as for the preceding year, ranging from \$14 to \$20 for spruce, and from \$19 to \$36 per thousand feet for high grade stocks of piue, fir and ecdar, &c.; laths, \$4 to \$4.50, and British Columbia shingles, \$2.75 to \$7.75 per M.

LAC DU BONNET RAILWAY.

The completion of this branch of the Canadian Pacific Railway has had the effect predicted for it in my annual report for last year, and has led to increased lumbering operations in the country tributary to Winnipeg river. Reference to a map of the region will show plainly the very extensive area of timbered lands which is now accessible to market by means of this road. I understand that five million feet, B.M., of logs were taken out by J. D. McArthur last winter, as well as 175,000 railway ties. His mill, which is situated at the river terminus of the railway, is a first-class one of 125 horse power, and a capacity of 30,000 feet, B.M., per diem, and is equipped with all the latest improved finaishing machinery.

It is roughly estimated that two or three hundred million feet of merchantable timber, lying along the Winnipeg and English rivers, can be manufactured at Lac du Bonnet. There is alleged to be in the territory in which this merchantable timber is to be found a much greater supply of poplar and spruce suitable for pulp wood, which will no doubt come into demand in due course.

THE LAC DU BONNET MINING, DEVELOPING AND MANUFACTURING COMPANY.

This company has established at Lac du Bonnet an elaborate brick plant, having acquired an extensive body of elay suitable for brick-making. It is said that although the present output is only 30,000 per diem, the machinery has a capacity of 75,000. The company has received a highly favourable report of samples of elay, brick and vitrified brick and drain tiles. This is also a steam power plant, using saw-mill refuse both for boiler fuel and brick burning.

MANITOBA AND SOUTH-EASTERN RAILWAY.

The south-eastern branch of the Canadian Northern Railway transported to Winnipeg during the year under review, 50,000 cords of wood, all of which was cut along this branch, with the exception of about 4,000 cords which was cut in Northern Minnesota.

RECEIPTS.

It is gratifying to note that notwithstanding the reduction in the area of the lands under our control, consequent upon the handing over of large blocks to the provincial government, the Canadian Northern Railway, and as homesteals, the revenue of this office from timber, &c., shows a progressive and very substantial inersease, as will be seen from the following fagures :--

1-2	EDWARD VII., A
Receipts for the preceding year	. \$43,000 27
For the year covered by this report	. 59,155 02
Showing an excess of revenue	. \$16,154 75

FUEL.

The approximation of the quantity of coal and cord-wood consumed in Manitoba and the Territories, as far west as Regina, yields this result :--

	Tons.
American anthracite	37,500
American bituminous	4,200
Canadian anthracite	
Canadian bituminous (Galt)	10,000
Canadian lignite (Souris)	43,000
	101,200
Canadian cord-wood (Winnipeg only)	.125,000 cords

	Per	ton.
American anthracite	. \$9	50
American bituminous	. 7	00
Canadian anthracite	. 9	00
Canadian bituminous	. 7	50
Canadian lignite (at Winnipeg)	. 3	75
Canadian lignite (at Melita)	. 2	60
Canadian lignite (at Brandon)	. 3	20
Canadian lignite (at Regina)	. 3	30

Prices of coal f.o.b. at Winnipeg.

Per cord f.o.b. at Winnipeg.

Canadian	poplar				 \$2 40	to	\$2 60
Canadian	tamarack			 	 3 25	to	4.00
Canadian	spruce				 2 60	to	3.00
Canadian	jack pine				 3 00	to	3 50
American	oak				 3 75	to	4 25
American	maple				 5 00	to	5 50

The quantity of American fire-wood imported is very small and almost inappreciable.

i 1902

IMPROVEMENT WORKS, ST. ANDREW'S RAPIDS.

As soon as these works shall have been completed (the date for completion is fixed in the contract as July 1, 1003), it is anticipated that the harge areas of Jund coutiguous to Lake Winnipeg and the lower portion of the Winnipeg and other rivers which discharge in the lake, and which are believed to carry vast quantities of sprneand other thinker suitable for lomker and fuel, will be remered accessible and expluse of development. As I have in my land agreey report alluded to the importance of rendering the Red river navigable (between the lake and Emeson), it is unnecessary to detail here the many valuable and beneficial results which may be expected to flow from this achievement. Not the least important of these results will be to open up some of the quarries to which the lake gives access, and to improve and cheapen our supply of building stone.

MINING.

Of the large number of quartz claims filed in 1828, 1829 and 1909, not more thun fivly are to-day in existence, the great majority of them having been allowed to lapse. Of the 50 claims now extant, I can report no substantial development in regard to any of them. There is no doubt about the presence of highly mineralised veins, but no great body of ore has as yet been uncovered. While the existing conditions are unfavourable it is to be noted that in many other mining camps a like hesitation has occurred, and that properties now richly productive were, in their early history, staked and abandoned repeatedly. It is not improbable that the application of sufficient explanation own field may in time lead to profitable operations.

GYPSUM AND CEMENT,

In my report as agent of Dominion Lands, mention is made of the satisfactory establishment of works by the Manitoba Union Mining Company, LLA, for the treatment of the gypsum deposit which occurs in the vicinity of the north-eastern arm of Lake Manitoba, and of the harge body of natural cement in the P--bins valley. It is difficult to over-estimate the benefit to the general industries of the province of a cheap and bonntiful supply of these valuable products.

FOREST FURES.

It is satisfactory to report that during the last antuma and spring climatic conditions prevented the origin and sprend of fires which have wrought such deplorable have and loss in the forest areas of the Winnipeg district in past years. I am sanguine that hereafter, in seasons when elimatic coulditions may favour the origin and sprend of fires, the guardian service inaugurated by the Forestry branch of the department may do effective preventive work. The opening of roads and drains which is being pushed forward by an aggregate high expenditure by the municipalities, assisted by the provincial government, may be expected to hargely promote the efforts of the rangers in applying the necessary preventives and suppressive measures.

ROUTINE WORK.

The past year has been a very busy one, and the staff has experienced difficulty in keeping up with the work, which at times could only be accomplished by working overtime.

The statement of work performed at the respective offices, following my report made as Inspector of Agencies, shows the volume of business transacted at this office during the year.

The number of letters received (land and timber) for the year was 16,178, and those sent out 16,314, a large increase over the former year.

The total collections by the two branches of the office—timber and lands—during the year amounted to \$90,678.37, an increase of \$20,500.71 over the preceding year. These figures do not include payments made at the department at Ottawa on account of the agency.

Respectfully submitted,

E. F. STEPHENSON,

Crown Timber Agent.

(1)	
9	
×	
7	
-	
8	
\breve{x}	

Urath, Itania, Italiana, Itali			Fiscal Ye	gebrarewers of Receipts from Timber, Grazing, Hay and Mining Lands, Collected at the Winnipeg Agency, for the Fiscal Year ended June 30, 1901.
Month. Formit. Remit. Sciences. Scienc	GRAZING LANDS HAY	HAT LANDS.	Mining	
Prot 8 cts 8 6 10 10 10 10 10 10 10 10 10 10 10 10 10<	Dominion School Dominion Lands, Lands, Lands,	School Lands.	dues.	Totals,
2007 1. Left 4. (2013) 2.	S cta. S cta. S cta.	& cts.	S cts.	× cts.
0 187 064 441 12 1,1,06 366 26 1 3.6 17 3.4 12 3.4 12	131 133 153 100 158 100 158 100 159 100 100 100 100 100 100 100 100 100 100	704 60 172 50 112 00 1 00	00 92 00 92 00 92 00 92 00 92 00 92 00 92 00 92 00 92	3,852,290 8,205,53 2,900,19 4,739,41 4,222,37 5,965,27
1,115 43 1,035 80 1,2904 45 545 00 1	2 85 4 45 10 50 290 20 152 70 290 20 183 70	14 30 191 50 124 10 283 20	127 50 127 50 120 120 50 120 120 120 120 120 120 120 120 120 12	$\begin{array}{c} 2.211 \\ 1.545 \\ 4.1245 \\ 0.621 \\ 3.0621 \\ 3.689 \\ 3.689 \\ 63 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 3.689 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 54 \\ 54$
Totals Totals 11.0, 34.02 00 3.402 00 20,003 34 2.09 40 130 00 13	21 93 1,397 35	1,504 90	00 068	45,355 64 13,799 38
Grand totals. 9,067 oo 16,333 14 9,503 00 25,825 63 2,929 43 748 64	21 93 1,397 35	1,504 30	894-00	59,155 02

SCHEDULE

Name.	Situation of Mill.	Kind of Power	Location of Limit.	Lumber Manufactured.	Lumber sold, from quan- tity manufactured and from that on hand from the previous year.	Lumber on Hand.
	Selkirk Bad Throat River. Brandon Ridding Mountain. Ladding Mountain. Ladding Mountain. Ladding Mountain. Tp. 18, R. 3 E. Riding Mountain. Winnipeg. Ochne River. Whitemouth. Gardaad. Tp. 18, R. 5 W. 2. Ridding Mountain. Winnipeg. Ochne River. Whitemouth. Gardaad. Tp. 19, R. 2 E. Pt. Grande Marais.		Lake Winnipegrosis. Lake Winnipegrosis. Lake Winnipegrosis. Duck Mountains. Riching Mountains. Riching Mountain. To I, S. K. S. M. S. K. S	$\begin{array}{c} 2,001,715\\ \mathrm{I},156,800\\ \mathrm{GS},604\\ \mathrm{7},892,147\\ \mathrm{7},892,000\\ \mathrm{3},930,57\\ \mathrm{7},5,000\\ \mathrm{3},2,072\\ \mathrm{3},0,076\\ \mathrm{1},400,000\\ \mathrm{2},207,075\\ \mathrm{1},55,299\\ \mathrm{2},207\\ \mathrm{3},0,076\\ \mathrm{1},155,299\\ \mathrm{2},207\\ \mathrm{3},0,000\\ \mathrm{3},0,000\\ \mathrm{3},000\\ \mathrm{3},00\\ \mathrm{3},000\\ \mathrm{3},00\\ \mathrm{3},0$	$\begin{array}{c} 1,501,211\\ 66,800\\ 706,300\\ 6,293,100\\ 135,764\\ 319,305\\ 75,000\\ 32,072\\ 177,076\\ 1,600,000\\ 225,449\\ 51,459\\ 929,340\\ 2,112,829\\ 457,705\\ 928,076\\ 1,145,75\\ 928,076\\ 1,145,75\\ 128,676\\ 1,246,757\\ 2,144,175\\ \end{array}$	$\begin{matrix} [,373,341\\ 1,060,000\\ 35,060\\ 2,160,676\\ 126,611\\ 126,611\\ 126,611\\ 100,000\\ 207,075\\ 2009,839\\ 10,090,171\\ 949,089\\ 481,518\\ 131,338\\ 340,000\\ 36,000\\ 36,000\\ 750,000\\ \end{matrix}$
			Totals	23,532,300	18,662,944	9,831,618

SHOWING number of Saw-Mills in Province of Manitoba operating under Gov-

Nore .- This statement does not include railway ties cut under permit, of which there would be

B.

ernment License, for the year between June 30, 1900, and June 30, 1901.

Shingles Manufactured.	Shingles sold from quan. nfd. and from that on hand from prev. year.	Shingles on hand.	Lath Manufactured.	Lath sold from quan.mfd and from that on hand from previous year.	Lath on hand.	R'y ties manufactured.	R'y ties sold.	Date Last Re		Remarks
	135, 250		141,000		25,200	3,811		June 30,	1901.	
97,050	97,050					25,237	25,237	June 30,	1901	
45,500	183,750 : 46,500 396,250			138, 950	8,550	3,138 1,907	3,138			{ The lumber and ties shown { as mfd. cut under permit.
	858, 800 2	236, 000		351, 150	33,750		35,205			This lumber, as well as the ties, was cut under per- mits, before betths changed to license system.

approximately, 485,000.

E. F. STEPHENSON, Crown Timber Agent.

No. 21.

REPORT OF CROWN TIMBER AGENT AT NEW WESTMINSTER.

Department of the Interior,

CROWN TIMBER OFFICE,

NEW WESTMINSTER, B.C., August 22, 1901.

JAMES A. SMART, Esq.,

Deputy Minister of the Interior, Ottawa,

SIR,—I beg to submit my annual report for the twelve months ended June 30, 1901.

The receipts of this agency for the fiscal year ended June 30, 1901, amounted to \$23,134.70.

I also enclose you schedule of mills situated within the Dominion railway belt in the province of British Columbia, which gives the usual statistics respecting the lumber market.

I may say that our collections do not appear to be as large as in any of the previous years, owing to a number of relates having been paid on account of burnt timber, &c., which had been previously collected, but I take pleasure in stating that there is a prospect of increased revenue for the next fiscal year.

The lumhermon of the province are expecting a very largely increased business with the Northwest Territories and Manitoba, owing to the excellent prospects of this year's crops. In fact, orders are coming in so rapidly at the present time that they are unable to keep up with them.

The export trade to foreign countries, namely, China, Japan, Australia, New Zealand aud South America, has not been equal to that of previous years, but is showing a decided improvement.

The provincial government have decided on building a railway and traffic bridge across the Fraser river at the city of New Westminster, which will add very materially to the business of the community.

I may state that the salmon eatch this season was unprecedented, which will likewise tend to greatly increase the trade of the province.

The inauguration of the fire wardency system has been of marked benefit so far. Numerous fires have started, which have been put out promptly by the fire wardens, who are actively patrolling their districts and paying strict attention to their duties. The present season being very dry, the danger of fire is very considerable as yet, and will require constant vigilance on the part of the wardens. I might respectfully suggest that the number of fire wardens be increased, as their territories are altogether too large, in consequence of which the rangers are not able to give the attention that they otherwise would, if confined to more limited areas.

I am, sir, your obedient servant,

JAMES LEAMY, Crown Timber Agent.

STATEMENT of Receipts of New Westminster Crown Timber Agency for Fiscal Year ended June 30, 1901.

Month.	Ground Rent.	Royalty.	Permit Dues.	Seizure Dues.	Total.
1900.	\$ cts.	8 cts.	8 cts.	S cts.	8 ets.
July	$ \begin{array}{r} 162 & 92 \\ 25 & 53 \\ 680 & 47 \\ 5 & 79 \\ 110 & 05 \end{array} $	$\begin{array}{c} 988 & 61 \\ 1,873 & 09 \\ 323 & 15 \\ 609 & 28 \\ 624 & 89 \\ 358 & 79 \end{array}$	$\begin{array}{cccc} 79 & 45 \\ 18 & 00 \\ 65 & 00 \\ & 4 & 94 \\ 63 & 60 \\ 91 & 84 \end{array}$	13 26 55 60 166 56	$\begin{array}{c} 1,244&24\\ 1,916&62\\ 1,124&22\\ 710&01\\ 855&05\\ 560&68 \end{array}$
1901.					
January February March April May June.	$\begin{array}{r}1 & 28 \\ & 0 & 65 \\ 10 & 14 \\ 1,221 & 23 \\ 639 & 12 \end{array}$	$286 \ 74$ $895 \ 28$ $1,158 \ 64$ $915 \ 55$ $107 \ 10$ $773 \ 77$		510-24 500-00	$\begin{array}{r} 396 & 27 \\ 1,028 & 03 \\ 1,275 & 13 \\ 1,782 & 84 \\ 1,960 & 62 \\ 2,009 & 14 \end{array}$
	2,857 18	9,004 89	1,755-12	1,245 66	14,862 85

-						
Name of Owner	Where Situated.	Capacity of Mill.	Kind of Power.	Operating on Limit No.	Where Situated.	Quantity of lumber manufac- tured.
		Ft.				Ft.
I. R. & T. S. Reilly W. C. Wells	Ottertail Palliser	7,000 30,000	Steam	5 3 & 29	Kicking Horse river. & Tp. 25, 19,	526,800
Columbia River Lumber Co	Golden	40.000		16, 17, 231	W 5. M	2,732,300
	Beaver.	100,000		232 14 & 15	Columbia river & Tp. 20, 10,	6,231,672
	Revelstoke Station	25,000		49, 207, 118	W. 6 M	2,962,787
	Nakusp	30,000		123	Columbia river	
Fred, Robinson,	Revelstoke Station	25,000		116 & 117		
Columbia River Lumber Co		25,000			Tappen Sid'g., Notch Hill. Tp. 20, 13, W. 6 M.	1.581.844
Shuswap Milling Co Harrison River Mills T. &	Kaniloops					
T. Co William Sulley	Ruskin	75,000 25,000.	2	Notopertg	Harrison river	
McLaren Ross Lumber Co. Brunette Saw-mill Co		120,000	1	33, bk. 2,		
				138	Stave river and lake. Mud bay	
B. C. Mills T. & T. Co	Vancouver	90,000 225,000	- 10 - L	Notopertg		6,598,423
Grant & Kerr Pacific Coast Lumber Co.	Ladner	20,000 40.000		Q. 51, 103	Stave river& Mud bay	
E. H. Heaps & Co	Vancouver	75,000		33, bks. 1, 3		
				& 4, 150, 185, 96	Stave river	110,392
Hastings Shingle Mfg. Co. Shuswap Milling Co	Course Course	50,000 75,000	Water	52	Port Moody Greely creek	1,636,434
Canadian Pacific Lum, Co.	Port Moody	75,000	Steam	111	Port Moody	687,000
G. W. Phipps Peter Ryan	Vancouver			69 & 209	Deer lake	899,540
Peter Ryan Ashcroft Water, Electric and Improvement Co	Kamloops	50,000		240 & 263		834,823
K. Mikuni					Burrard Inlet	
						32,877,216

LIST of Mills operating in Dominion Railway Belt of British Columbia ended June

Countity of lumber sold. Date of last return. 439,458 157,342 2,998,491 5,500 5,500 318,000 318,000 348.232 24 1.112.886687.000 899,540 1,246 1,5181 323,500 323,500 224,856 217,325 7,531 308 29,228,729 18,958,870

and Statement showing Quantity of Timber manufactured during fiscal year 30, 1901.

No. 22.

REPORT OF CROWN TIMBER AGENT AT CALGARY.

Department of the Interior, Crown Timber Office. Calgary, Alta., August 23, 1901.

JAMES A. SMART, Esq.,

Deputy Minister of the Interior, Ottawa.

SIR,--I have the honour to inclose the following statements for the 12 months ending June 30, 1901:--

Schedule ' A.'—Statement of receipts on account of Crown timber, &c., covering the period referred to, amounting to \$8,570.03.

Schedule ' B.'-General office work.

Schedule 'C.'—Showing the saw-mills within the Crown timber agency operating under government license, to June 30, 1901.

The lumber trade has been very brisk this year, a large quantity having to be brought in from points in British Columbia.

I am, sir, your obedient servant,

J. R. SUTHERLAND, Crown Timber Agent.

SCHEDULE A.

STATEMENT of receipts for twelve months ending June 30, 1901.

Month.	Dominion Lands,	School Lands.	Total.
1900.	8 cts.	8 cts.	8 cts.
July August September October. November. December.	1,423 96 424 25 555 82 878 66 379 15 230 84	$\begin{array}{r} 19 & 40 \\ 9 & 10 \\ 50 & 31 \\ \hline \\ 25 & 60 \\ 38 & 40 \\ \end{array}$	$\begin{array}{c} 1,443 & 36 \\ 433 & 35 \\ 606 & 13 \\ 878 & 66 \\ 404 & 75 \\ 269 & 24 \end{array}$
1901.			
January February March. April. May	$\begin{array}{c} 968 & 02 \\ 127 & 28 \\ 687 & 59 \\ 594 & 67 \\ 539 & 62 \\ 1,523 & 01 \end{array}$	$\begin{array}{c} 6 & 40 \\ 6 & 40 \\ 25 & 60 \\ 32 & 50 \\ 23 & 45 \end{array}$	$\begin{array}{c} 974 & 42 \\ 133 & 68 \\ 687 & 59 \\ 620 & 27 \\ 572 & 12 \\ 1,546 & 46 \end{array}$
	8,332 87	237 16	8,570-03

J. R. SUTHERLAND,

Agent.

SCHEDULE B.

GENERAL Office Return of the Calgary Crown Timber Agency for the year ending June 30, 1901.

Description of Return.	Number.		WITH LAST REPORT.	Remarks.
		Increase.	Decrease.	
Number of letters written (including Dominion lands). received (including Dominion lands). of permits issued subject to dues. of fire permits issued of mill returns received and vertified.	4,588 6,934 12 180 24	1,848 700 17 2		

J. R. SUTHERLAND,

Agent

105

Suowing the Saw-mills in the Calgary Crown Timber Agency operating under Government Licenses, for the year ending June 30, 1901.

Remarks.									AD, Agent.
No. of returns.	-	+	*	01	4	-44	00		AA
Date of last return.	1991. June 30	. 30	. 30	Doc. 31	June 30	. 30	M'ch 31		J. R SUTHERLAND, Ag
Quantity of shingles mTd and sold since July I, 9981									R SU
Quantity of Jumber on hand June 30, 1901.	19,196	603,274	2,527,677		701,484	5,213		3,946,844	J.
Quantity sold from an 'nt manufactured in 1900- 1901, and on hand July 1, 1901,	120,895	2,635,534	2,572,972	56,000	1,246,369	30,800	146,500	6,829,070	
Quantity of lumbermanu- factored during year ended June 30, 1901,	55,448	2,745,810	3,355,302	40,000	1,251,750 1,246,369	000'6	329,500	7,786,810	
Location of Limit.	Mill Creek.	Old Man's River 2,745,810 2,655,534	Steam 65 us d 1887 Fir, Spruce and Kananaskis Riv. 3,355,302 can. Cypress pine	St. Mary's River	Sheep Creek	. Old Man's River			
Description of Timber.	1882 S. and F	1888 S. and F.	Fir,Spruce and Cypress pine	1891 S. and F.	1890 S. and F.	1898 S. and F.			
Commenced operations.	- 12 57	1888	282		1890	1898			
Horse Power.	30	ş	65 us'd can	25 25	99	25			
Kind of Power.	Water	Steam	Steam	Steam	Steam	Steam	Steam		
Mill WhereSituate.	Mill Creek.		Calgary	Cardston	Dewdnoy	N'th Fork Old Steam	Cypress Hills. Steam		
Owner or Owner and Assigner.	Hon. Peter McLaren	² Hon. Peter McLaren McLeod Mill.	3 Eau Claire and Bow Calgary River Lumber Co	4 R. G. Belvedere, owner, Cardston operated by C. Terry.	5 John Lineham.	6 H. B. DeWolf.	7 Wm. Snibert		
.o.N						-			

1-2 EDWARD VII., A. 1902

No. 23.

REPORT OF CROWN TIMBER AGENT AT PRINCE ALBERT.

Department of the Interior, Crown Timber Office, Prince Albert, Sask., July 23, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior, Ottawa.

Sm,-I have the honour to inclose herewith the following statements for the year ending June 30, 1901:--

Schedule 'A.'-Statement of receipts on account of Crown timber, grazing, mining and hay.

Schedule 'B.'-Statement showing saw-mills operating under government license.

Schedule 'C.'-Statement showing general official work during the year.

I am, sir, your obcdient servant,

JNO. McTAGGART, Crown Timber Agent.

1-2 EDWARD VII., A. 1902

SCHEDULE A.

STATEMENT of Receipts from Timber, Grazing and Hay lands at the Crown Timber Office, Prince Albert, for the twelve months ending June 30, 1901.

Month.	DominionLands.	Schoool Lands.	Total.
1900.	8 cts.	\$ cts.	\$ cts.
July	$\begin{array}{r} 636 58 \\ 27 17 \\ 1,434 80 \\ 1,354 43 \\ 409 80 \\ 48 82 \end{array}$	4 90 2 55	$\begin{array}{r} 641 \ 48 \\ 29 \ 72 \\ 1,434 \ 80 \\ 1,354 \ 43 \\ 409 \ 80 \\ 48 \ 82 \end{array}$
1901.			
January. February. March April May June	$ \begin{array}{r} 1,095 48 \\ 613 76 \\ 196 88 \\ 326 78 \\ 1,270 04 \\ 28 85 \end{array} $	$15 \ 00 \ 3 \ 00 \ 6 \ 40 \ 10 \ 00 \ 3 \ 00 \ 3 \ 00 \ 00 \ 3 \ 00 \ 00 \ 3 \ 00 \ 0\ 0$	$ \begin{array}{r} 1,110 & 48 \\ 616 & 76 \\ 203 & 28 \\ 336 & 78 \\ 1,273 & 04 \\ 28 & 85 \end{array} $
Total Collected at head office	7,443-39	44 85	7,488 24 28,271 38
Gra	nd total		35,759 62

Certified correct.

JOHN McTAGGART, Crown Timber Agent.

Crown Timber Office, Prince Albert, July 11, 1901. 1

STATEWEST showing Naw-mills in the Prince Albert district operating under Government License, during the year ending June 30, 1901.

SESSIONAL PAPER No. 25

Date of last return.	195,000 June 30, 1901. 325,750	GART, Crown Timber Agent.
Xumber of shingles sold during the year.	195,000	ART, rown Ti
Yumber of alingles manufactured during the year.	142,000	JOHN McTAGGART, Crown
.blos soluti lo vitunu).	599,450,4 178,828,1 178,828,1 178,828,1	NHOF
Quantity of lumber munu- factured during the year.	Feet. 1,912,925 3,080,083 367,515	
Where out,	Limits morth of Sturgeon Lines, up Little Red Ride up Little Red Ride up Little Red Limits up Little Red	
Description of timber.	s. Spruce,	
Commenced operations.	1880	
Capacity per 12 hours.	25,000 25,000 10,000	
Buik bur 1970 920 H	20 steam 30 30	
Name of Owner.	James Sanderson. Win, Cowar & Co. J. W. Shamon & Co.	CROWN TIMBER (DEFICE

CROWN TIMBER OFFICE, PRINCE ALBERT, July 23, 1901.

SCHEDULE C.

General return of the Crown timber office, Prince Albert, for the year ending June 30, 1901 :

Timber permits issued	
Hay permits issued	
Timber seizures	
Free miner's certificates	-
Mill returns received	28

I am, sir, your obedient servant,

JNO. McTAGGART, Crown Timber Agent.

CROWN TIMBER OFFICE, PRINCE ALBERT, July 23, 1901.

No. 24.

REPORT OF CROWN TIMBER AGENT AT EDMONTON.

Department of the Interior, Dominion Lands Office, Edmonton, Alberta, September 9, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior, Ottawa.

Sin,—I have the honour to inclose herewith schedules A and B, relating to the work of the timber and mines branch of this agency, for the year ending June 30 last. The revenue collected at this office, and including payments made at head office, was \$10.262.01.

I am, sir, your obedient servant,

A. NORQUAY, Acting Crown Timber Agent.

1-2 EDWARD VII., A. 1902

SCHEDULE 'A.'

STATEMENT of Receipts from Timber, Grazing, Hay and Mining at the Edmonton Office, and including payments made at Head Office, for the year ending June 30, 1901.

Month.	Amount.	Month.	Amount.
1960,	s ets.	1901.	8 cts.
July	247 67	January	329 18
August	279-38	February	1,410 84
September.	597-54	March	661 03
October	434 41	April	1,893 79
November	380 45	May	3,431 17
December,	163 50	June	433 05
		Total	10,262 01

SCHEDULE 'B.'

RETURN of Saw-mills operating in Edmonton Crown Timber Ageucy under Government License during the year ending June 30, 1901.

Name of Owner or Owner and A-ssignce.	Where situated.	Kind of power.	No. of horse power.	Operations begun.	Logs cut at Limit No.	Quantity of hunder manufactured in period.	. Quantity of limiter sold in period.	Date of last return forwarded to H.O.	Kind of timber.	No. of returns.
D. R. Fraser & Co. Walter & Humberstone, Leopold E. Benz Bank of Otta wa assigned to D. R. Fraser & Co. G. A. Love C. H. Swanson & L. Petersen,	Strathcona Wetaskiwin Edmonton Red Deer	" Not given. Steam Not given.	80	1898 1900 1900	799 864 860 496	545,596 217,755 50,000 855,060 277,000	1,(32.5)4 217,755	Mrch, 1901 " 1901 June, 1901 " 1901 " 1901		4334 422
 D. W. McKenzie . 	Ft.Saskatch'wan			1901 1901 1901 1901	910 956 849	40,000 75,000 2,782,656	40,000	. 1901		2212

i

No. 25.

REPORT OF THE ORDNANCE AND ADMIRALTY LANDS BRANCH.

Department of the Interior, Ordnance and Admirality Lands Branch, Ottawa, August 10, 1901.

JAMES A. SMART, Esq.,

Deputy Minister of the Interior, Ottawa.

Sin,-I have the honour to submit the usual report on the transactions of this branch of the department for the fiscal year ending June 30, 1901.

The subjoined statements are similar to those prepared in previous years. They include :--

(A) Statement of sales made since the preparation of the last report. This includes lots redeemed by Ottawa tenants in accordance with the provisions contained in the leases originally granted by the Imperial authorities. Total amount, \$9,631.35, of which sum \$8,550.35 heap hear received on account.

At Joronto, lot Xo, 1, North Wellington avenue, containing 6,240 superficial fect, was sold at public auction for 8550, on the usual terms governing ordnance lands sales, namely : One-fifth to be paid at the time of sale and the balance in four equal annual instalments, with interest at 6 per event per annuur. The presence of a lumber yard and a cattle market in the near vicenity detracted from the value of the lot, so that the amount received being considerably in advance of the value placed on it by the department, the sale may be considered satisfactory.

At Ningara-on-the-Lake, six lots, each two-thirds of an acre in area, being a subdivision of the hospital lots, were sold at public competition for the sum of \$1,980, or an average price of \$330 per lot, or \$495 per acre, on the usual conditions governing ordnance lands sales, as above mentioned.

At Fort Eric, twenty-two lots, averaging about an acre in area, and five narrow strips of land surveyed off the abandoned right-of-way of the Buffalo, Brantforl and Lake Huron Railway, were sold at public auction for the sum of \$4,011, or for an average price of \$20.61 µe tol, or \$21.11 µcr area, a considerable advance on the upset price, and when compared with the values obtained for the surrounding land, the amount realized by the sale, \$0.66 per cent, or \$3,007.32 has been received on account. A small lot containing 2,553.45 superficial feet, the last of a number of small lots referred to in my last report, which were surveyed off the abandoned "right-of-way aforementioned, and across which it was necessary for the powers" of the adjoining lots to pass to tatian the street, vas sold for \$0.23, \$20 at the same true per are cas that paid for the adjoining lot, together with a propertionate part of the co-t of survey.

In the township of Nepean, seven lots, forming part of lot K, concession C, being all the lots in that locality remaining undisposed of from the sale held there last year, were sold at public competition for \$387, or an average price of \$55.28 per lot, or \$1.100 per acre, on the usual conditions governing ordnance lands sales.

Lot No. 194, of the parish of Ste. Anne de Sorel, at Sorel, P.Q., comprising an area of 43–56 arepats, and being a continuation of land in the above mentioned purish, whose proprietors had occupied this lot for many years and m d in providents

25-i-8

thereon, was sold for \$87.12, or for \$2 per arpent, the rate at which similar land in the vicinity had been sold.

At Ottawa the consideration money for twelve lots in the city, amounting to \$1,994.48, has been paid, and letters-patent therefor have been issued, in accordance with the terms of the original leases granuted by the Imperial authorities.

At Quebec the sale of two lots, disposed of at public auction in 1876, was completed by the payment of the balance of purchase money, and interest accrued thereon, amounting to \$1,512.80.

Permission to cut hay on the Longueuil farm (containing 190 acres) at Longueuil, P.Q., was disposed of by tender for the sum of \$120, and the farm was subsequently leased to Joseph Lapointc for five years, at \$300 per annum.

Lot No. 11 of the ordnance reserve at Grand Falls, N.B., was leased to Frederick A. Howard for a term of 21 years.

(B) Statement showing localities on account of which moneys have been received during the fiscal year. Total amount, \$14,604.47.

The contingent expenses of the branch for the period ending June 30, 1901, were \$923.12. Of this amount \$370.92 was paid for salaries, \$245.08 for professional services, \$217.03 for advertising, and \$81.00 for sundrice.

(C) Statement showing the receipts month by month, divided into principal, rent or interest, and fees.

(D) Statement showing the amount due and remaining unpuid June 30, 1901, in the several localities where ordnance lands are situated, classified as rent or interest, and principal moneys. The total amount shown to be due is \$30,824.57—an increase, when compared with 1900, 68,1454.31, to be accounted for by the number of sales held during the year, and by the \$300 additional rental due by the Quebee government. Of the amount remaining due and unpuid by tenants, \$81,516 is due by the government of the province of Quebee, and \$4,942.36 by lessees of ordnance lands in the city of Ottawa.

The routine work of the office compares favourably with that of previous years. Daring the year 413 letters were received, 540 letters were written, and upwards of 1,900 notices and statements of accounts mailed to tenants and purchasers in arrears; 24 assignments were registered, 29 drafts of letters-patent were prepared, and 89 warrants issued for the Bank of Montreal at Ottawa to receive moneys. In addition to this, upwards of 600 accounts now open with the respective purchasers and tenants of ordnance lands have been carefully kept.

I am, sir, your obedient servant,

JAS. N. FERGUSON, Clerk in Charge.

'A.'-STATEMENT of Sales made during the year ending June 30, 1901.

Locality	Number of lots Sold or Redeemed.	Amount.	Amount Received on Account.
Niagara	28 lots 1 7 lots part of lot K., concession C 6 16 lots 1 1 lot 1 1 lot 1	\$ cts. 4,632 75 387 00 1,980 00 1,994 48 550 00 87 12 9,631 35	8 cts. 4,003 75 195 00 396 00 1,984 48 110 00 87 12 6,750 35

JAS. N. FERGUSON, Clerk in Charge.

Department of the Interior, Ordnance and Admirality Lands Branch, Ottawa, August 10, 1901.

'B.'-STATEMENT showing the several localities on account of which moneys have been received during the fiscal year ending June 30, 1901.

Locality.	Amount.	Locality.	Amount.
Ambresthurg Durlington Beach Charlotteville Abhomie Elimite Blandey Charlotteville Charlotteville Grand Falls Grand Falls Grand Falls Grand Halls Grand Halls Grand Halls Grand Halls Ministral Notareal Notareal Openanto	$\begin{array}{c} 8 & {\rm cts}, \\ 2 & 00 \\ 260 & 00 \\ 119 & 00 \\ 34 & 23 \\ 1 & 00 \\ 9 & 70 \\ 80 & 00 \\ 4,043 & 23 \\ 442 & 52 \\ 2 & 20 \\ 327 & 50 \\ 327 & 50 \\ 327 & 50 \\ 327 & 50 \\ 327 & 50 \\ 311 & 53 \\ 407 & 00 \\ 0 & 25 \end{array}$	Brought forward Over	\$ cts. 10,017 48 9 20 40 00 210 00 1 00 1,512 80 1,512 80 10 00 32 00 144 29 1 00 2,450 90 117 80 57 90
Ottawa Owen Sound	3,385-32 69-00	Refund	14,604 47 10 00
Carried forward	10.017 48	Net receipts .	14,594 47

JAS. N. FERGUSON, Clerk in Charge.

DEPARTMENT OF THE INTERIOR,

Ordnance and Admirality Lands Branch, Ottawa, August 10, 1901.

25-i-81

^c C.²—STATEMENT of receipts on account of Ordnance and Admiralty Lands for the fiscal year ending June 30, 1901.

	Date.	Fers.	Rent or Interest.	Principal.	Total.
July August September October November December	1900.	10 00	8 cts. 397 66 919 42 45 55 160 46 149 67 1,008 87	8 cts. 1,661 24 256 50 200 00 408 78 1,110 00	8 cts. 2,074 90 1,175 92 245 55 579 24 149 67 2,126 87
January February. March April May June	1901.	13 90	$\begin{array}{c} 1,453&96\\ 339&32\\ 40&01\\ 660&64\\ 992&77\\ 291&75\\ \hline 6,460&08\\ \end{array}$	$\begin{array}{c} 217 & 50 \\ 255 & 28 \\ 777 & 43 \\ 395 & 00 \\ 3.226 & 00 \\ 268 & 76 \\ \hline 8,076 & 49 \end{array}$	$\begin{array}{r} 1,675 & 46 \\ 598 & 60 \\ 119 & 44 \\ 1,069 & 54 \\ 4,218 & 77 \\ 560 & 51 \\ \hline 14,594 & 47 \end{array}$

JAS. N. FERGUSON, Clerk in Charge.

Department of the Interior, Ordnance and Admirality Lands Branch, Ottawa, August 10, 1901.

⁴ D. - STATEMENT showing amounts due and unpaid on account of rent, instalments of purchase money and interest to June 30, 1901.

	Locality	Rent or inter est due and unpaid June 30, 1901.	Amount of instalments due and unpaid June 30, 1901.	Total (lue.
Amberstiang Barlington Deach Carillan Dalhanse. Edition State Edition State Grant Falls. Kingeton. Montreal Mon		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 ets. 384 93 76 53 312 88 298 77 100 95 1,352 40 264 00 264 00 198 00	$\begin{array}{c} {\rm s} {\rm cts}, \\ 2 \ 0.0 \\ {\rm B} 0 \ 0.0 \\ 3 \ 0.0 \\ 3 \ 0.0 \\ 5 \ $
		27,230 63	3,593 94	30,824 57

JAS. N. FERGUSON, Clerk in Charge

DEPARTMENT OF THE INTERIOR, ORDNANCE AND ADMIRALTY LANDS BRANCH, OTTAWA, August 10, 1901.

No. 26.

REPORT OF THE LAND PATENTS BRANCH.

DEPARTMENT OF THE INTERIOR, LAND PATENTS BRANCH.

OTTAWA, September 30, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior.

SIR,--I have the honour to submit herewith the following statements necessary in the preparation of the departmental report for the year ending June 30, 1901, and which are as follows :--

A .- Statement of entries affecting Dominion lands made at head office.

B.—Statement showing number of acres of swamp lands in Manitoba transferred by order in council to province of Manitoba.

C.-Statement showing number of patents forwarded to the several registrars ; and the number of notifications mailed to patentees.

D.-Statement showing number of deeds of transfer recorded at head office.

E .- Statement showing number of entries cancelled.

F.—Statement abstract of letters-patent covering Dominion lands in Manitoba, North-west Territories, British Columbia and Yukon Territory, issued from the Department of the Interior during the first six months of 1900, and the year ended June 20, 1001.

I am, sir, your obedient servant,

WM. M. GOODEVE, Chief Clerk, Land Patents Branch.

A.—STATEMENT of Entries affecting Dominion Lands which were made at Head Office during the fiscal year ended June 30, 1901.

Spec Gran	ial ts.	Car Not R'j	adian thern 7 Co.	Ca Pac	nadiau ific R'y Co.	Mi & R	anitoba N. W. 'y Co.	Ma S. V R	Manitoba S, W, Col. R'y Co.		Manitoba Calgary & 5, W. Col. Edmonton R'y Co. R'y Co.		Qu'Appelle Long Lake & Sask, R. & S. Co.		Ri	Railway Right of Way.		Total.	
No.	ACITS,	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres.	No.	Acres,	No.	Acres.	No.	Acres,		
64 2,	677	2	450	2459	6,243,490	0.789	204,027	148	35,917	33	5,813	54	104,857	33	266	3582	6,597,527		

WM. M. GOODEVE, Chief Clerk.

Department of the Interior, Land Patents Branch, Ottawa, September 28, 1901.

B.—STATEMENT showing the number of acres of swamp lands in Manitoba transferred by Order in Council to the Province of Manitoba up to June 30, 1901.

	Date of Order in Conneil.	Acres.
April 21, 1884 . April 16, 1888 . Augest 16, 1888 . Augest 22, 1891 . Augest 22, 1893 . Augest 22, 1893 . April 22, 1893 . Cetober 21, 1893 . April 22, 1893 . April 22, 1893 . Beenley 1, 1896 . December 1, 1896 . December 1, 1896 . December 1, 1896 . August 18, 1897 .		104,7 K 52,5% 60,555 105,625 36,475 36,475 36,484 36,055 36,475 36,484 36,055 36,475 36,484 36,055 37,105 37,105 34,12
	Total.	1,188,527

WM. M. GOODEVE, Chief Clerk.

Department of the Interior, Land Patents Branch, Ottawa, September 28, 1901.

C.—STATEMENT showing the number of patents forwarded to the several Registrates of the Land Registration Districts of the North-west Territories, and the number of notifications mailed to patentees during the year ended June 30, 1901.

Registration Districts.	Number of Patents sent to Registrars.	Number of Notifications mailed to Patentees
Assimiliana East Soskatchewan West Soskatchewan North Alberta South Alberta Yukou	1,759 228 225 613 331 286	1,646 274 38 609 152 311
Totals .	3,445	3,420

WM. M. GOODEVE, Chief Cherl

Department of the Internor, Land Patents Branch, Ottawa, September 28, 1901. D.—STATEMENT showing the number of Deeds of Transfer recorded at head office during the year ended June 30, 1901 :--

Number of deeds registered..... 1,018 Fees received in connection therewith..... \$2,036

> WM. M. GOODEVE, Chief Clerk.

Department of the Interior,

LAND PATENTS BRANCH, OTTAWA, September 28, 1901.

E.—STATEMENT showing the number of Entries cancelled during the fiscal year ended June 30, 1901, also the year in which such entries were made.

	Year.	Homestead.	Pre emptions	Pre-emption sales	Time sale.	Sales.
1875 1877 1878 1879 1879 1885 1885 1885 1885 1885 1885 1885 1886 1887 1880 1890 1891 1892 1894 1895 1894 1895 1896 1897 1896 1897 1897 1897 1897 1897 1897 1897 1897 1887 1897 1896 1896 1890 1890 1896 1896 1890 1890 1890 1896 1896 1890 1990 1990 1990 190 19		1 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 3 1 3 1 3 9 9 9 1 1 3 9 9 1 1 9 9 9 1 1 1 3 9 9 9 1 1 3 9 9 9 1 1 3 9 9 9 1 1 3 7 3 7 1 3 7 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 3 7 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	2 3 1 1 2 2 1 2 1 2 2 1 2 2 1	

WM. M. GOODEVE, Chief Clerk,

Department of the Interior, Land Patents Branch, Ottawa, September 28, 1901.

F.—Abstract of Letters Patent everying Dominion Lands situate in Manitoba, the North-west Territories, British Columbia and the Yukon Territory, issued from Department of the Interior, during the first six months of 1900, and the fiscal year ended June 30, 1901.

No.	Natione of Grant	From July June 30	1, 1900, to 9, 1901.	From Janoary June 30,	r 1, 1900, to 1900.
		Patents.	Acres.	Patents.	Acres
12134060	Homestends Sales. Bertsål Colon/War homestends Canadian Pacific Railway monumess. Canadian Pacific Railway grants. Canadian Pacific Railway and bed and station	1,886 346 236 18 569 1.757	299,946 76,050 35,957 1,074 122,815 5,751,546	1.176 160 13 12 219 62	183,106 30,236 1,792 1,848 46,251 11,823
13	grounds Half-breed allotments North-west half-breed grants Manitols Act grants Special grants Commutation grants Manitola North-western Railway	6 5 634 94 14 209	265 960 136,484 492 26,777 1,670 46,442	4 28 5 24 6 11	166 250 1,278 9,372 530 2,391
$ \begin{array}{c} 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 20 \\ 21 \end{array} $		12 41 16 8	34,570 3,824 4,010 1,639 1,335	14 14 9 7 2	
$\frac{23}{24}$	Assignment of Mortgage North-western Coal and Navigation Company. Alberta Railway and Coal Co Calgary and Edmonton Railway Co Mingral rights Mining lands sales. Qu'Appelle, Long Lake and Saskatchewan Rail- rord and Steambast Company	34 27 - 22	192,277 5,996 179 101,585	8 18 2	4,048 3,671 130
29 30 31 32 33	The University of Manitoba Fruit tree culture Leases Free wood lot License of occupation Yukon Territory sale special. Great North west Central Balway Co	3 1 11 148 116	60 20 594 320	1 1 14 14 14 14 31	3,791 82 1,280
	Totals	6,461	6,846,877	1,970	310,501

WM. M. GOODEVE, Chief Clerk

DEPARTMENT OF THE INTERIOR, LAND PATENTS BRANCH, OTTAWA, September 28, 1901.

t

No. 27.

REPORT OF THE ACCOUNTANT.

Department of the Interior, Accounts Branch, Ottawa, August 23, 1901.

JAMES A. SMART, Esq.,

Deputy Minister of the Interior, Ottawa.

SR,-I have the honour to submit statements of revenue collected from various sources during the fiscal year 1900-1901, as follows :--

A Dominion lands, including Yukon Territory	\$1,874,159	60
B.—Ordnance lands	14,604	47
C.—School lands	48,049	83
D.—Registration fees	33,979	77
E Fines and forfeitures, N.W.T	1,977	96
F.—Casual revenue	1,587	57
G.—Seed grain repayments	15,711	63

A statement of the revenue on account of Dominion lands (marked H) shows the receipts monthly, classified under sub-heads.

Statement (marked I) shows a comparison between the receipts on account of Dominion lands for 1900-1901 as compared with the revenue of the previous fiscal year.

I am, sir, your obedient servant,

CHAS. H. BEDDOE,

Accountant.

A.-DOMINION Lands Revenue (Cash and Serip), for the fiscal year ended June 30, 1901.

	Cash.	Serip.	Total.
Yukon Territory.	8 ets.	8 ets.	8 ets.
Salar of landa Bernata of landa Survey fors Lappor permit fors, Timbre shaw Granang landa Mining fors Royalty on gold Divelging leases Prevident gold Divelging leases Prevident scottilistis, Map along, office fors, &c.	$\begin{array}{c} 14,451 \\ 89\\ 35,326 \\ 19\\ 201 \\ 00\\ 74,833 \\ 80\\ 4057 \\ 42\\ 51 \\ 20\\ 348,058 \\ 30\\ 506,338 \\ 03\\ 11,412 \\ 32\\ 2,550 \\ 00\\ 125,861 \\ 00\\ 288 \\ 00\\ 2,958 \\ 50\end{array}$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Net loss by assay	1,220,396 89 1,921 99	21,147 11	1,241,544 00 1,921 99
Dominion Lands Agencies.	1,218,474 90		1,239,622-01
Alancela Brandon . Odacry . Education . Odacry . Calacry . Definition	$\begin{array}{c} 5,804 \ 65\\ 156 \ 00\\ 6,485 \ 29\\ 10,663 \ 38\\ 5,576 \ 89\\ 18,763 \ 51\\ 3,211 \ 96\\ 23,400 \ 46\\ 5,009 \ 71\\ 8,31 \ 00\\ 5,706 \ 57\\ 12,321 \ 96\\ 10,106 \ 93\\ 5,341 \ 08\\ 7,736 \ 22\\ \end{array}$	$\begin{array}{c} 8,350 & 56\\ 160 & 00\\ 18,168 & 02\\ 49,042 & 18\\ 3,249 & 56\\ 6,642 & 30\\ 4,488 & 00\\ 109,911 & 21\\ 6,520 & 49\\ 485 & 10\\ 3,D63 & 81\\ 40,422 & 81\\ 7,119 & 45\\ 6,984 & 53\\ 40,384 & 99\\ \end{array}$	$\begin{array}{c} 14,155 \ 21\\ 316 \ 00\\ 24,593 \ 31\\ 59,111 \ 56\\ 8,826 \ 45\\ 25,405 \ 81\\ 133,311 \ 67\\ 11,600 \ 20\\ 1,316 \ 10\\ 8,870 \ 38\\ 52,744 \ 77\\ 17,226 \ 78\\ 12,335 \ 61\\ 48,191 \ 12\\ \end{array}$
Conen Tuder Agnuers. Battleford. Brandon. Dauplin. Elimotton. Wannebas. Yew Westminster Prime Allert Reil Der. Reil Der. Winnings.	$\begin{array}{c} 91\ 75\\ 165\ 00\\ 325\ 10\\ 6,075\ 86\\ 2,270\ 91\\ 9,628\ 57\\ 134\ 04\\ 1,706\ 18\\ 23,134\ 70\\ 35,548\ 19\\ 35,548\ 19\\ 35,548\ 19\\ 30,4\ 62\\ 54,592\ 20\\ 225\ 00\\ \end{array}$		$\begin{array}{c} 91 \ 75\\ 165 \ 00\\ 335 \ 10\\ 6,075 \ 85\\ 2,270 \ 91\\ 9,628 \ 57\\ 134 \ 94\\ 4,706 \ 18\\ 23,131 \ 70\\ 35,548 \ 19\\ 233 \ 40\\ 355 \ 418 \ 19\\ 233 \ 40\\ 314 \ 92\\ 54,502 \ 20\\ 225 \ 00\\ 225 \ 00\\ \end{array}$
Minetianna, Rocky Montenne Park of Canada. Margan and Santon Santon Margan and Santon Santon Santon Santon Santon Parent fees. Parent f	$\begin{array}{c} 4.047 & 31 \\ 318 & 65 \\ 3.076 & 79 \\ 3.660 & 00 \\ 28,113 & 90 \\ 200 & 00 \\ 83 & 00 \\ 16^{\circ} & 00 \\ 25 & 60 \end{array}$		$\begin{array}{c} 4.047 & 31 \\ 318 & 65 \\ 3.076 & 79 \\ 3.660 & 00 \\ 28.113 & 90 \\ 200 & 00 \\ 83 & 00 \\ 165 & 00 \\ 25 & 60 \end{array}$

-1

A .- DOMINION Lands Revenue (Cash and Scrip)-Concluded.

Cash.	Scrip.	Total.
8 cts.	≉ cts.	8 cts.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20 00 14.671 99	$\begin{array}{ccccccc} 23 & 56 \\ 447 & 90 \\ 860 & 00 \\ 9,957 & 35 \\ 3,000 & 00 \\ 19,347 & 07 \\ 925 & 90 \\ 75 & 00 \end{array}$
.533,197 07 15,877 55		1,874,159 09 18,368 85 1,855,790 24
	8 cts. 23 56 447 50 9,937 35 3,000 00 4,675 08 925 90 75 00 333,197 07	8 cts. 8 cts. 23 56 447 50 9.60 10 9.67 55 4.675 50 14.671 99 925 50 925 50 333,197 07 340,962 02

CHAS. H. BEDDOE, Accountant.

DEPARTMENT OF THE INTERIOR, ACCOUNTS BRANCH, OTTAWA, August 23, 1901.

B .- STATEMENT of Ordnance Lands Revenue for the fiscal year ended June 30, 1901.

1900.	Receipts.
July	\$2,074 90
August	1,175 92
September	245 55
October	589 24
November	149 67
December	2,126 87
1901.	
January	1,675 46
February	598 60
March.	119 44
April	1,069 54
May	4,218 77
June	560 51
	\$14,604 47
Refunds	10 00
	\$14,594 47

CHAS. H. BEDDOE, Accountant.

Department of the Interior, Accounts Branch, Ottawa, August 23, 1901.

C.--STATEMENT of Receipts on account of School Lands for the fiscal year ended June 30, 1901.

	School District.	Amount.	Total
Manitoba Assiniboia Alberta Saskatchewan		8 ets. 40,944–25 4,446–71 2,638–67 50–20	8 ets 48,049 83

CHAS. H. BEDDOE, Accountant.

DEPARTMENT OF THE INTERIOR, ACCOUNTS BRANCH, OTTAWA, August 23, 1901.

D.-STATEMENT of Registration Fees for the fiscal year ended June 30, 1901.

	District.	Registrar.	Total Registration Fees.
Assimitsoia North Alberta South East Saskatchewan West Yokon Territory		H. W. Newlands George Roy. W. R. Winter S. Brewster R. F. Chisholm J. E. Gironard,	8 ets. 14,317 20 6,905 50 5,207 43 1,662 70 51 13 5,745 81 33,979 77

CHAS. H. BEDDOE, Accountant.

Department of the Interior, Accounts Branch, Ottawa, August 23, 1901. 125

E.—SIMTEMENT of Fines and Forfeitures, North-west Territories, collected under Dominion Statutes (except 'The Indian Act' and 'The Fisheries Act') for the fiscal year ended June 30, 1901.

Date of Bank Receipt.		Name.		Amount.	Total
1900. Oct. 15	The Attorney General,	North-west	Government, Regina	8 cts. 520 60	\$ cts.
1961. Feb'y 1 April 21 July 13				533 60 551 41 372 35	1,977 96

CHAS. H. BEDDOE,

Accountant.

DEPARTMENT OF THE INTERIOR, ACCOUNTS BRANCH, OTTAWA, August 23, 1901.

F .--- STATEMENT of Casual Revenue for the fiscal year ended June 30, 1901.

I. K. Gironard. Refund, account inveiling expenses. 11 W. F. McCreary	. Name.	Particulars.	Amount.
A. Macarthur. proceeds of sale of grain. 660 F. M.Creary. by P.Elin Doyle, 87, 69; and G. Lawrence, 84, 00 12 account hered re tailcians. 13 by M.K. & Stephane 3 T. Lathgew 14 Y. L. Lathgew 15 W. P. M.Creary. 16 J. Stemahorn 16 Lawrence, 84, 00 17 J. Stemahorn 18 Lawrence, 84, 00 18 J. Stemahorn 19 Lawrence, 84, 00 10 J. Stemahorn 10 Lawrence, 84, 00 10 J. Stemahorn 10 Lawrence, 84, 00 10 <td< th=""><th></th><th></th><th>8 ets</th></td<>			8 ets
A. Macarthur. proceeds of sale of grain. 660 F. M.Creary. by P.Elin Doyle, 87, 69; and G. Lawrence, 84, 00 12 account hered re tailcians. 13 by M.K. & Stephane 3 T. Lathgew 14 Y. L. Lathgew 15 W. P. M.Creary. 16 J. Stemahorn 16 Lawrence, 84, 00 17 J. Stemahorn 18 Lawrence, 84, 00 18 J. Stemahorn 19 Lawrence, 84, 00 10 J. Stemahorn 10 Lawrence, 84, 00 10 J. Stemahorn 10 Lawrence, 84, 00 10 <td< td=""><td>J. E. Girouard</td><td>Refund, account travelling expenses</td><td>91.00</td></td<>	J. E. Girouard	Refund, account travelling expenses	91.00
by Ellen Doyle, 87.50; and G. Lawrence, 84.30. 12 account bread or talacians. 13 by W. K.Y. Stymas 14 by W. K. Webb. 14 15.00 14 16.10 14 17. Liftpaw 15 18.11 14 18.11 14 19.11 14 19.11 14 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 16 19.11 17 19.11 16 19.11 16 </td <td>I. Ma carthur</td> <td> proceeds of sale of grain</td> <td>620 20</td>	I. Ma carthur	 proceeds of sale of grain	620 20
account hered of e Galaxians. 19 by M.K. X. Shylnem 1 by M.K. X. Shylnem 1 1. Stemahorn 1 1. Young, 1 1. S. Shundhorn 2 1. S. Chargo, 1 1. S. Chargo, 1 1. S. Chargo, 1 1. S. Chargo, 1 1. S. Macarthur, 1 1. J. Mathford 1 1. S. Shilmid. 1 1. S. Shilmid. 1 1. S. Shilmid. 1 1. S. Shilmid.	W. F. McCreary	by H. Manweiler	2 70
by W. R. Vichsken 2 by W. R. Vichsken 1 by W. R. Vichsken 2 distribution 1 behave on account immigration expresses 2 M. R. Konzy, 1 minigration dxi, P. Prine Albert, 1 A. D. L., Red Deer, 1 win Ritchie. 1 win Ritchie. 1 win Ritchie. 1 win Ritchie. 1 blance on account immigration expresses 3 different 1 blance of account immigration expresses 4 1 1			
by W. K. Nicholson 4 Stemahom by H. K. Webh 2 K. S. Conroy. 2 2 J. Stemahom 4 2 K. S. Conroy. 2 2 J. T. Liftpow 3 2 J. T. Liftpow 3 2 J. W. B. Underful 7 2 Jaw Macrithur 7 3 J. W. B. Underful 7 3 Wu. B. Underful 7 3 Wu. B. Underful 7 7 J. J. P. Actractory 100 10 J. J. Lagrafieded 100 10 J. Schlund. 100 10 J. Schlund. 10 10 J. Schlund. 10 10 J. D. L., Regran 9 20 J. Schlund. 10 10 J. D. L., Regran 10 20 J. D. L., Regran 10 20 J. D. L., Regran 20 20		account bread re Galicians	19 50
Stemahorn by H. K. Wehh 1 J. Schumborn account role within expression of pressel of a sole. 2 H. S. Commy. balance account travelling expresses 3 J. J. Leithgew balance account travelling expresses 3 A. D. L., Fed Dorr. balance or account contingencies 3 W. B. Underhild immigration expresses 3 W. P. McCreary 0 coverparent male to E. F. Letts, on June 7. 4 D. L., Flattleford balance confingencies. 5 6 S. Schlund organization expresses 30 6 Optimization expresses 0 17 1 J. D. L., Regima precessed to account contingencies. 30 17 J. Schlund optimization expression of the gradies of the sole of th			2 25
Stenalown account railway fares 2 J. K. Dawron belance on account immigration expresses 2 J. K. Dawron balance on account immigration expresses 2 M. D. L., Red Deer. contingencies 2 Wu, Ritchich contingencies 2 Wu, Ritchich contingencies 2 J. D. L., Fattleford contexpect of sub of five-trained to the five-trained to the sub of five-trained to the sub of five-trained to the sub of five-trained to the five-trained to the sub of five-trained to the five-trained to the sub of five-trained to the sub of five-trained to the sub of five-trained to the five-trained to the five-trained to the five-trained to the sub of five-trained to the sub of the five-trained to the sub of the five-trained to the five-trained to the		by W. B. Nicholson	4 10
3. Stemahom behance on account immigration expenses. 2 1. R. Conroy. proceeds of alle of scales. 5 1. R. Linkyw Prince Material Scales. 5 1. R. Linkyw Prince Material Scales. 5 A. D. L., Feld Derm. 5 5 fas. Macardur. 7 3 Mark B. Chefnell 7 6 We B. Underfull 7 6 We B. Underfull 7 6 1. Solution 7 7 Mark B. Chefnell 7 7 1. Solution 7 7 Machine. 7 7 1. Solution 7			50
H. S. Charges,, Isaliane account travelling expenses 5 F. Leithges V. Frines Albert,, Isaliane account travelling expenses 5 T. Leithges V. Frines Albert,, Isaliane account and the states, 25 A. D. L. Red Dorr,, 15 S. Schlind,, 16 D. L. Regrina,, 16 2 2 2 2 2 2 2 2 2 2 2 2 2			
T. L. Linkpow proceeds of alls of scales. 15 M. D. L., Red Der. balance on account immigration express 26 Wu, B. Underbill immigration express 96 Wu, B. Underbill immigration express 97 Wu, B. Underbill immigration express 97 Wu, B. Underbill immigration express 97 Wu, B. Underbill immigration express 90 H. Decagias 199 chemped 182 180, not pure 182 A. D. L., Restricterd proceeds of scale of from tands to find 197, or Anguet 22, 1890, not pure 133 172 R. Douglas improved from transform express of the proved of the scale of from tands and o			
Immigration Agt, Prine Albert, balance on account immigration expenses. 23 A. D. L., Rel Obert. contingencies 23 fax Macarthur. immigration expenses. 20 w. H. Undehult immigration expenses. 50 W. F. McCreary. overpayment made to F. F. Hetts, on June 27, 1900, checkeng 1852. 4 A. D. L., Bottford balance contingencies. 12 H. Douglas. proceeds of alse of five tons of hay (Rocky Moon tans. Park). 12 G. Schlund. proceeds of rengin cances the determined on alse of freminese oild o Tionnal 2 29			
A. D. L., Red Dorr. contingencies 22 5 Wen Mitchins immigration express 36 Wen Mitchins overgrammat make to E. F. Betts, on June 7, 4 Wen Mitchins overgrammat make to E. F. Betts, on June 7, 4 Immigration express 30, of Angust 22, 1990, not 14 M. D. L., Rögting balance contingencies. 16 S. Shilmid. purceeds of sea of frame frames oils to Thomae 2 A. D. L., Rögman. purceeds of a contingencies and to be determined. 2			
Jas Maarthur	Immigration Agt, Prince Alber		33
W. B. Underhill	A. D. L., Red Deer	o contingencies	
Wash Richins. miniparties 500 W.F. MiCheart Comparent male to F.F. Betts, on June 75, of August 22, 1990, not used. 100, 100, 100, 100, 100, 100, 100, 100,	Jas. Macarthur	 March 1990 March 1990 March 1990 March 1990 And 199 And 1990 And 1990 A	
W. F. McCreary. 1900, checyne 1852. A. D. L., Battleford H. Douglas. Schund. D. L., Battleford A. D. L., Battleford H. Douglas. Balance contingencies. Balance contin	W. B. Underhill	The second s	
1500% cheque 1882. 4 a. immigration cheque, 187, of August 22, 1890, not used. 17 A. D. L., Battleford balance contingencies. 12 Balance contingencies. 12 12 Schlund proceeds of sale of five tons of hard Rocky Moun- post office address of sender not being known 20 A. D. L., Regma proceeds of sale of firme house old to Thomas 20	Wm. Ritchie	immigration expenses	50 00
A. D. L., Exiteformat. A. D. L., Regime. A. D. D. L. Regime. A. D.	W. F. McCreary		1.00
A. D. L., Battleford . balance contingencies. If 7 H. Daglas		1900, cheque 1382.	4 00
A. D. L., Battleford 12 2 H. Douglas proceeds of all of five tons of hay (Recky Moon 5.8 Schlund) S. Schlund (purpuse of remittance cannot be determined, post-office address of sender not being known) A. D. L., Regma proceeds of all of five tons evid to Thomas			18.50
 Bonglaa. proceeds of asle of five tons of hay (Rocky Mountain tains Park). Schlund. (purpose of remittance cannot be determined proceeds of asle of frame house wold to Thomas 	D T D LA C A	used	
3. Schlund		balance contingencies	12 05
 G. Schlund	H. Douglas		00.00
A. D. L., Regma		tams Parg)	20 00
A. D. L., Regma proceeds of sale of frame house sold to Thomas	G. Schlund	purpose of remittance cannot be determined,	0.00
	A D T Down	post once address of sender not being known)	2 05
	A. D. L., negma	Dodds	99.40
	J. J. McArthur.	balance of advances on account travelling or	0.7 40
		penses, boundary surveys, cheque 45, of Janu- ary 23, 1899.	50.00

F .- STATEMENT of Casual Revenue, &c .- Concluded.

 R. E. Jamisson Inmigration Communications Interfact A correspondence of the result, incorregation of the	\$ -14. 10 00 16 550 280 025 34 10 00 1 1 85 20 0 11 1 25 1 0 00 1 420 1 1 420 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

"The above five stems appear on statement (G) of repayments of seed grain advances.

CHAS. H. BEDDOE,

Accountant.

DEPARTMENT OF THE INTERIOR, ACCOUNTS BRANCH, OTTAWA, August 23, 1901.

	Seed Grain Advances.	Seed Grain Advances.	Seed train Seed train Seed train Seed train to Seed train to the Perturbation Methods Advances Advance	Seed Grain 3 Advances.	keed Grain Advances.	Seed Grain to Settlers' Account.	Territorial Account.	Relief Mortgages.	Total.
	1900.	1808.	1896.	1895.	1894.	1890.	1890. 1886.67-88.	1876.	
				-					
	s cts.	s cts.	& cts.	S cts.	s cts.	\$ cts.	S cts.	8 cts.	\$ cts.
	48 661	00 21	1,727 35	3,830-93 27-33	5,018 23 20 23	1,469 32		1,637 78 1,781 18 6 15	15,711 63 70 13
R.c. B.B.B.C.S.	199 84	47 00	1,710.92	3,803-60	4,998 01	I,460 32	1,631 63	1.781 18	15,641 50
DEPARTMENT OF THE INTERIOR,						Ĉ	TAS H.	CHAS H. BEDDOE.	

spartnent of the lytekoog, Accourts Branch, Ottawa, August 23, 1901.

128

Accountant.

SIONAL PAPER No. 25	5				
Total.	8 cts. 919,051 18 209,307 58 126,275 99 126,877 45 99,354 05 82,158 58	47,363 25 30,037 32 70,528 50 70,528 50 92,097 75 100,229 78 200,904 33	535,119 06 1,921 99	.533,197 07 340,962 02	874,159-09
suo analloosi IC	 cts. cts. 22,506 75 23594 00 23594 00 6,535 40 11,751 00 825 90 	876 00 2,631 45 5,567 14 8,526 00 1,642 00 1,642 00	39,667 14 1	39,667 14 1.	39,667 14 1.874,159 09
Fees w applications for Patents.	⁸ cts. ⁸ cts. ⁸ 3340 00 ⁴⁰⁶⁶ 000 ³¹¹⁵ 000 ³¹¹⁵ 000 ³¹¹⁵ 500 ³²¹⁷ 500 ³²¹⁷ 500	435 00 3580 00 1555 00 355 00 350 0000000000	3,696_00	40.3,696.00	
sood yarms	8 cts. 750 50 111 13 595 09 147 33 147 32 147 32	708 01 381 09 405 84 1,508 12 1,508 12 424 54	14 31, 333 40 3,696		31,333 40
Map Sales, Office Pees, &c.	2012 10 2013 10 2013 20 2013 20 2013 20 2013 20 2013 20 2013 20 2013 20 2013 20 2013 20 2014 2	52 50 50 52 50 50 52 50 50 52 50 50 52 50 50 52 50 50 52 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5	00 3,874 14	00 3,874 14 31,333	3,874-14
surveyors' Examination	8 cts.	135 00	1951	165	165 06
Rocky Mountains Park of Canada.	 cts. cts. 520 05. 520 05. 497 50 214 75 192 25 192 00 92 00 	58 50 395 67 1,024 66 167 50 167 50 292 00	4,047 31	4,047 31	4,047 31
Royalty, Hay Permits, Moyalty, Hay Pees, Conl Mands, &c.	⁸ cta. 236,722 91 173,266 37 129,601 54 82,253 50 482,253 50 482,253 50 462,759 44	24,982 25 30,784 74 49,415 94 57,792 83 48,721 19 166,236 46	1,103,730 32 - 1,921 99	1,101,808 33 -	27 1,101,828 33 4,047 31 165 00 3,874 14 31,333 40 3,696 00
Rents from Grazing Lands.	 Cta. Cta. Stat 26 Stat 26 Stat 27 Stat 28 Stat 242 Stat 242 Stat 242 Stat 242 Stat 242 Stat 243 	0003 91 389 22 389 54 388 54 252 71 262 71 262 71 262 71 262 71 263 74	4.726.28	4,726 28	19,398 27
Zimber Dues.	\$ cts, 12,789 19 21,968 61 15,514 29 23,066 90 16,864 62 16,864 62 16,864 62 16,864 62 11,630 57	9,224 32 11,669 56 10,669 56 10,627 12 41,989 13 19,350 13	209,309-32	209,399-32	209,299-32
General Sales of Lands.	 ⁸ etc. ⁴,714 ⁴,714 ⁶,714 ⁷,714	5,3394 27 3,0222 41 4,0201 01 2,5672 29 6,2644 12	10,350-93	40,300-93-3	366,630 96 209,299 32 19,398
Improvements.	cts. 65 00 85 25 86 40 86 400 86 400 86 400 86 400 86 400 86 400 86 400 86 4000000000000000000000000000000000000	85 72 86 72 86 65 86 72 86 720	13 22	13 15	13 22

1,155 00 1,065 00 870 00 820-00 640-00

355 00 180 00 185 00 2240 00 150 00

7,835 00 6,715 00 4,850 00 6,130 00 6,090 00 6,090 00

July. August September.. October.. November. 1901.

1500.

770 00 555 00 375 00 10 00 10 00

8888888 988888 988888 79,910 00 1,800 00 79 210 00 1 800 00

4,190 00 3,925 00 6,325 00 8,855 00 8,855 00 10,015 00 10,015 00

Deduct assay 7 charges

OTTAWA, August 23, 1901. ACCOUNTS BRANCH, DEPARTMENT OF THE INTERIOR,

79,910 00 1,800 00

SESS

CHAS. II. BEDDOE,

25-i-9

Inspection Fees, &c.

DOMINION LANDS REVENUE.

 STATEMENT of Gross Receipts (Cash and Scrip) on account of Dominion Lands Revenue for the fiscal year 1900-1 compared with the previous fiscal year.

Particular».	Fiscal Year 1900–1901.	Fiscal Year 1899 1900.	Increase.
	8 cts.	8 cts.	8 cts.
Dominion Lands Agencies	425,704 53	233,872 98	191,831 55
Crown Timber Agencies	134,505 52	90,877 36 2,727 60	43,628 16
Rocky Mountains Park of Canada	4,047 31 34,090 32	28,262 26	1,319 71 5.828 06
Miscellaneous	36,189 40	15,955 70	20,233 70
	634,537 08	371,695 90	262,841 18
Yukon Territory	1,239,622 01	1,132,047 10	107,574 91
	1,874,159 09	1,503,743 00	370,416 09

CHAS. H. BEDDOE,

Accountant.

DEPARTMENT OF THE INTERIOR, ACCOUNTS BRANCH, OTTAWA, August 23, 1901.

No. 28.

REPORT OF THE SCHOOL LANDS BRANCH.

DEPARTMENT OF THE INTERIOR,

OTTAWA, October 1, 1901.

JAMES A. SMART, Esq.,

Deputy Minister of the Interior, Ottawa.

SIR,-I have the honour to submit the usual annual report on the transactions of the school lands office for the fiscal year ending June 30, 1901.

No general sales of school lands were held during the year. As so large an area had been disposed of at the auction sales held in March, 1900, in the North-west Territories, and in June of the same year in Manitoba, it was not considered advisable in the interests of the school lands endowment fund to place any more lands on the market.

In your report of last year you referred to certain charges which were made shortly after the auction sales of 1900, with respect to irregularities alleged to have occurred in connection with certain of the auction sales held in Manitoba in June of that year, and also to the commission issued to His Honour James E. P. Prendergast, under the Great Seal, to investigate and report in regard thereto.

The reports of Judge Prendergast on the result of his investigation were received before the close of last session, and a copy of each report was submitted to parliament. In addition to his report dealing with the general aspect of the sales, he made a full report on his investigation of each auction sale, giving the details disclosed by the evidence obtained.

Before Judge Prendergast began his investigation he was furnished, at his request, with full information relative to the arrangements made for carrying out the sales referred to, such as the names and addresses of the officials employed in connection with each auction sale ; lists of the lands offered and of those sold, with the prices obtained in each case; a list of the newspapers in which the sales had been advertised and cooise of all combinits filed in the department in regard to such sales.

Mr. Isaac Pithlado, barrister-at-law, of Winnipeg, was retained to assist Judge Prendergast in the examination of witnesses, and Mr. Alexander Harggarf, K.C., was also employed, on behalf of the Manitoba government, at their request, and both these gentlemen were present at all the sittings of the commission.

Sittings were held at each of the twenty-two points in Manitoba at which the auction sales had been held, namely, Brandon, Virden, Carberry, Oak Lake, McGregor, Morden, Portage la Prairie, Miami, Souris, Gladstone, Emerson, Birtle, Minnedøaa. Crystal City, Rapid City, Killarney, Boissevain, Deloraine, Melita, Baldur, Holland and Winnipez.

Defaults and re-sales appear to have been the subject of the greater part of the inquiry, and in regard to this it would, perhaps, be as well to quote the judge's words, which are as follows :--

⁴ I may say in this respect that from an inspection of the original records of the sales, which I procurde beforehand, I was enabled to assertiatin in advance in what cases such defaults and resales had taken place, and to summon the parties connected therewith before the sittings of inquiry were held. I am in a position to state that every case of default and re-sale which has come to my notice, was investigated and reported upon.

'Where defaulting was resorted to as a means of defrauding, the scheme consisted in a party bidding up the land until it was knocked down to him, and then leaviny it to a friend to buy in at the re-sale for a lesser price, which could be done in most cases, as the attendance was then smaller in general, and the unsuccessful bidder or bidders in the first sale would often leave before the re-sale. Of course, where there was a community of purpose and concerted action between the defaulting purchaser at the first sale and the purchaser at the re-sale, there was fraud. On the other hand, it cannot be said that a purchaser at the first sale who defaulted did so with fraudulent intention, as there were some instances of purchasers who realized after the sale that they had mistaken the description and bid on land other than that which they required, and others, through misunderstanding, delay in the transmission of telegrams, and other causes, were unable to procure in time the necessary deposit money for which they had made arrangements. Nor was there impropriety in all cases for a party to bid in at a re-sale. The time when a re-sale was to be held was announced in advance in every case. It was but natural for parties to avail themselves of this further opportunity to procure the parcels they wanted, more particularly for those who, after bidding unsuccessfully at the first sale, suspecting that the purchaser would not settle for the exorbitantly high prices up to which the land was run in some places, expected that the parcel might be put up again.

⁴ For the same reason the price offered at the first sale for a parcel which was afterwards not settled for, is not always indicative of its true value, as it several times happened, two farmers, whose respective farms adjoined a particular parcel, bid it up until it reached fautastic prices without any intention of perfecting the purchase, but simply to prevent the other from acquiring it. Of course, where parcels had been settled for as they were sold, which was done at several sales, there could be no object in defaulting, and there was no re-sale.²

At some of the sales, however, the practice was to proceed without waiting for sectlements until a number of parcels had been disposed of, when there would be an adjournment to receive payments for those sold, after which the sale would again be proceeded with. Judge Prendergast states that the reasons given by the auctioneers for this practice are as follows :—

⁴ That an uninterrupted offering of lots and bidding thereon brought in better prices in their opinion; that many parties who could procure their deposit money between the first sale and the re-sale folt averse to providing themselves with the same before they had definitely secured their parcel : and that this particle was the one followed at the previous school lands sales, and did not seem forbidden by the written conditions of sale supplied to them by the department.⁴

From the report it would appear that the complaints in regard to the officials in connection with the sales were seven in number, and with respect to these the judge states as follows :—

⁴ In two cases the complainants, when appearing before the commission, withdrew their charges with apologies or expressions of regret ; in two others, one complainant not appearing and the other stating that his representations to the department were only from hearsay, the parties referred to by both when examined under oath disproved the charges. In a fifth ease, the complainant was emphatically contradicted by the cyrry witness he called in support of his allegations, and in the sixth one, the complainant, besides explaining that by collusion he meant the action of the auctionese who had all attended the sale and separately kept a record of the same invituas?

In regard to the seventh complaint, which was to the effect that one of the record elerks was in collusion with certain pressons whereby extrain lands were sold to fictitious persons, and then in default of payment were off-red again and purchased at the resale at a lower price by humself and others, the report reads as follows :--

SCHOOL LANDS

SESSIONAL PAPER No. 25

⁴ Four of the five witnesses supporting the complaint were themselves parties in combinations to keep down prices, and I do not believe, on the whole, that the charge is proven. At the same time, I must say, that not only was the derk unwise in bidding at all at the sale, but there was a particular lack of discretion on his part in bidding under the special circumstances of the re-sale complained of.⁴

There appear to have been some complaints to the effect that the Brandon, Emerson, Crystal City, Boissevain and Deloraine sales were too fast, and with respect to this Judge Prendergast reports :-

'There is no doubt, as was expressed at the inquiry, that they were run a good deal quicket man ordinary sales of farmers' stock. It appears that in five cases where the would-be bidders were slow in realizing from the description that the parcel they were after was being put up, better prices could have been obtained had the bids been dwelt upon more leisarely. At the same time, the weight of evidence, even as to the five sales above mentioned, is decidedly to the effect that those who had well in mind the description of the parcels they wanted, had full opportunity to put in all their bids; and, as already stated, a farmer would rarely be interested in more than one parcel, and handly even in two or three. It is also conclusively shown that sales conducted with a degree of brickness yield the best results, by keeping up an interest, adding keenness to competition and preventing combinations. As the sales were, it seems impossible, from the evidence, that they could have brought in better prices. In fact, the complainant's grievance, in some instances was that through the fastness of the sale the bidders lost their heads in the excitement and were made to pay more than the land was worth.'

The judge adds: 'I would venture to say that a recommendation to auctioneers that sales be conducted so as to afford opportunities to bid, even to those of slower minds, would probably not be out of place, without, however, tending to bring better prices, on the whole.'

In regard to the prices realized, the judge considers that, compared with prices obtained for similar lands in the same districts, they were decidedly high, the average price obtained at each auction sale ranging from 85.52 per acre, realized at the Birtle sale, to \$15.94 per acre at the Carberry sale, or an average of \$8.11 per acre for the twenty-two auction sales.

In summing up the result of his investigation, the judge states that the sales, considered in their general lines or formal parts, were all well conducted, and adds that the derical work was well attended to, the recording being careful and accurate, and the moneys received being properly accounted for to the department. In fact, he states the record eleries seem to have particularly well performed their duties, which involved very considerable responsibilities.

The result of the investigation, as shown by the report of Judge Preudergast, is, in effect, that while at several of the sales there were instances of combination and collusion between the bidders at the first sales and re-sales, there was no wrong-doing or impropriety for which the department was responsible, and that the arrangements for the sales were found to have been satisfactory, and the sales themselves well conducted. Of the seven complaints made against officials of the sales, the investigation shows that six were without foundation, and that the sevent the judge does not consider proven, although he thinks the official was indiscret in bidding at all, in view of his position.

In all cases in which the report shows that there was any collusion or combination between the bidders, or any indication of irregularity, the department decilined to carry out the sale, either absolutely or except on the condition that the purchaser paid the price at which the land was knocked down at the first sale, according to the eircumstances of the case.

In regard to this I may say that of 1,269 parcels disposed of at these auction sales, only 31 were in any way affected by the result of the investigation.

The revenue from sales of school lands during the fiscal year w	as as f	ollow
Manitoba	\$35,867	85
Assiniboia	2,726	09
Alberta		83
	\$38,643	
The revenue from cultivation permits for the same period was	as foll	ows
Manitoba	\$261	50
Assiniboia	. 7	50 -
Alberta	53	75
	\$322	75
From timber, hay and grazing, the receipts were :		
Manitoba	\$4,142	29
Assiniboia	1,620	17
Alberta	2,447	53
	\$8,209	99

The total revenue from all sources for Manitoba and the Territories, was \$47,-176.51.

The revenue from sales would have been much larger had the second installments of the auction sales held in Assimibai, in March, 1900, and in Manitoba, in June, 1900, been payable at the expiration of one year from the date of the sale, as is usually the case; but, as you are aware, it was decided to extend the time of payment for the second installment to November 1, 1901, so that the receipts from these instalments will wo into the next financial year.

There is also a large reduction in the receipts from cultivation permits, owing to the fact that most of the lands for which cultivation permits had been issued in previous seasons were disposed of at the auction sales of 1900.

Appended hereto is the usual revenue and expenditure statement of the school lands funds of Manitoba and the several provisional districts of the North-west Territories, which shows the balance to the credit of the Manitoba school lands fund on June 30, 1901, to be \$757,325.08, and the balance to the credit of the North-west Territories on the same date, \$71,741.27.

MANITOBA School Lands Fund

I am, sir, your obedient servant.

FRANK S. CHECKLEY,

Clerk in Charge.

	Dr.	Cr.
Balance, July 1, 1900 Tamber, Jay and graving. 20 months ended June 39, 1901 Tamber, Jay and graving. 20 months ended June 39, 1901 Tamber, Jay and graving. 39 (1901) Cost of management at Ottawa, 12 months ended June 39, 1901 Cost of management at Ottawa, 12 months ended June 39, 1901 Cost of management at Ottawa, 12 months ended June 39, 1901 Cost of management at Ottawa, 12 months ended June 39, 1901 Cost of management at Ottawa, 12 months ended June 39, 1901 Cost of management at Ottawa, 1901 Cost of the State Cost of Management at Ottawa, 1901 Cost of the State Interest piad to Manatoba Government to June 39, 1901.	8 cts. 850 00 10,359 96 22,115 33 757,328 09	
	790,653 38	790,653 38

ASSINIBOIA School Lands Fund.

	Dr	σ_{i}
'Halanov July 1, 1200 Malen, 12 worths ended June 30, 1901 Timber, lay and graving, 12 worths ended June 30, 1801 (Regial for equivation purpose), 25 worths ended June 30, 1801	8 et.	8 cts 15,472 97 2,726 09 1,620 17 7 50 502 66
Cost of management at Ottawa, 12 months ended June 30, 1901 Interest pair loverment of the North west Territories to June 30, 1901 Expenses for advertising, 12 months ended June 39, 1901 Balance, June 30, 1901	$\begin{array}{r} 425 & 00 \\ 762 & 75 \\ 32 & 00 \\ 19,109 & 64 \\ \hline 20,329 & 39 \\ \end{array}$	20,329 39

ALBERTA School Lands Fund.

	Dr.	Cr.
Ralance, July 1, 1200 Salar, E. months ended June 20, 1991 Timber, hay and grazing, 12 months ended June 30, 1991 Rental for culturation purposes, 12 months ended June 30, 1991 Interest, 12 months ended June 30, 1991. Cost of management at Ottawa, 12 months ended 30th June, 1201; Interest paid Viocerment of the North-west Territories to June 30, 1991 Interest, paid Viocerment of the North-west Territories to June 30, 1991	\$ ets. 	 8 ets. 49,806 54 49 83 2,447 53 53 75 1,487 32
	53,844 97	53,844 97

SASKATCHEWAN School Lands Fund.

	Dr.	Cr.
Balance July 1, 1990 Timber, hay and graving, 12 months ended June 30, 1991 Interest, 12 months ended June 30, 1991. Balance, June 30, 1991 - of the Nethewas Territories to June 30, 1991 Balance, June 30, 1991 - of the Nethewas Territories to June 30, 1991	8 cts, 62 64 1.075 02	 © cts. 1,055 84 50 20 31 62
	1,137 66	1,137-66

No. 29.

REPORT OF THE REGISTRAR.

Department of the Interior, Correspondence Registration Branch, Ottawa, September 26, 1901.

James A. Smart, Esq., Deputy Minister of the Interior, Ottawa.

SIR,—I have the honour to submit a statement showing the work of this branch for the fiscal year ended June 30 last.

The amalgamating of the files brought to headquarters by the Commissioner of Dominion lands with those of the department is progressing, with the result that upwards of 67,500 have been so dealt with.

I am, sir, your obedient servant,

K. J. HENRY, Registrar.

STATEMENT of work done in the Correspondence Registration Branch during the year ended June 30, 1901.

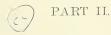
	July 1, 1900 to June 30, 1901.
Letters reveived. Letters sent. Registered letters reveived. Registered letters sent.	
Total	179,816

Moneys received.

			July 1, 1900. to June 30, 1901
Cash Cheques			\$ ets 8,277 37 102,551 25 145,423 28
Scrip orders Money orders			145,423 28 66,690 27 10,591 85 333,534 02

1

A. 1902



IMMIGRATION

25-ii-1

.

IMMIGRATION

REPORT OF THE SUPERINTENDENT OF IMMIGRATION.

Department of the Interior, Ottawa October 19, 1901,

JAMES A. SMART, Esq., Deputy Minister of the Interio Ottawa

Sing—I have the honour to submit to you, for publication in the Annual Report of the Department of the Interior, my own report and those of the several immigration agents in Canada, the United States and Europe, for the year ending Juni 30, 1001. These reports enter fully into the details of our immigration work, both at home and abroad during that period of time.

CORRESPONDENCE.

The attachments to our files at the head office during the year were 44.051 as compared with 33,102 for the previous year. The applications received here for information numbered about 55-001, and the number of pamphlets, maps, &e., sent in response to these applications was 25-32.04. Increasing, correspondence from all parts of the globe for information concerning Canada as a place for settlement has been promptly dealt with, and in many cases has been followed by the presend attention of the agents.

DISTRIBUTION OF LITERATURE.

During the year 572 cass, containing 000.152 maps, pamphlets, we, were sourt to the agents in thread Britani, the United States and Canada for distribution; 140.000 expises of special editions of newspapers, containing valuable inadigration matter were also distributed during the year, tasking a gravel total distribution of 1.011,056. Nimetem separate publications were ordered comparising in the aggregate 1.103,055.

EXHIBITS.

Samples of truits, vegetables, grains and grasses have been prepared and forwarded to the linked Stors agants or exhibition in the start and learner first. Note: it staring the difficulty of the trans-shipment of vegetables for long distances, the display made by these at the fairs was very evolutile. Samples of earn on the coh, truits, roots, vegetables, straws, grasses and minerals, including gold magnets from the Klasdike, have been forwarded to Great Drittain for a similar purpers. The display at the annual exhibitions of the products of the country is one which mass with general doration and proves a very attractive and inducutial advectis one.

REPORTS.

The reports of the High Commissioner and of Mr. W. J. White, Inspector of United States Agencies, deal with the advertising carried on during the y ar in the United

25 ii=14

Kingdom and in the United States, respectively. The report of Mr. W. T. R. Preston, Inspector of European Agencies, deals with the work of the United Kingdom and the continent, and shows that an active propaganda has been carried ou there during the year. The report of the Commissioner of Imanigration, Mr. J. Obed Smith, deals in detail with the work of Manitoba and the Territories, as administered from his office, and shows that the largely increasing number of imnigratus have been properly looked after and distributed by the officials under his direction. During the year the immigrants arriving via ocean ports and Winninger were met by officials of the department and were accompanied either to the centres of distribution or to their ultimate destination.

DELEGATES.

During the year 201 delegates from the United States and Europe visited thus country for purposes of inspection and obtaining information. Most of these delegates have either formally reported or corresponded with the department as to the result of their visit, and their statements and opinions are being made use of from time to time in the literature prepared and distributed by this branch.

ARRIVALS,

The immigrant arrivals for the year ending June 30, are as follows :---

English and Welsh	9,401
Seotch	1,476
Irish	933
Galicians	4,702
Germans	984
Hungarians	546
Austrians	
Scandinavian-	1.750
French and Belgians	492
Russians and Finlanders	
United States	17.987
Miscellaneous	8.924
Total	49,149

During the year the agencies under the control of this branch have been very netive in attentiate to the increasing work and the large number of arrivals. The reports from Manitoba and the Territories show that the arrivals are well up to the standard, and very few complaints, if any, have been received by the department as to the character of the immigrants. Most of these have gone to the land immediately on their arrival, and as fast as circumstances would permit, have become actual settlers and cultivators.

Your obedient servant.

FRANK PEDLEY.

REPORTS OF HIGH COMMISSIONER AND EUROPEAN AGENTS

No. 1.

REPORT OF THE RIGHT HONOURABLE LORD STRATHCONA AND MOUNT ROYAL, G.C.M.G., HIGH COMMISSIONER FOR CANADA.

17 VICTORIA STREET, LONDON, S.W., July 31, 1901,

The Honourable

The Minister of the Interior, Ottawa.

Sum—I have the honour to transmit the reports of the agents of your department on their work for the year ended June 30, 1901: Mr. Jury and Mr. Mitchell, of Liverpool; Mr. Devlin, of Dublin; Mr. O'Kelly, of Londonderry; Mr. W. L. Griffith, of Cardiff, Mr. Murray, of Glasgow; Mr. Dunnean, of Carnoustie; Mr. Grant, of Dumfries; and Mr. Treau de Cell, of Antwerp.

The reports of the agents explain the nature of their work during the year, and the efforts they have made to attract attention to Canada, and to promote desirable emigration to the different provinces.

The advantages of the Dominion to these contemplating emigration have been advertised very wilely in the press of the United Kingdom. The leading agricultural and other gatherings where farmers enougregate have been attended, exhibits of agricultural produce have been made whenever it has been practicable, and advantage taken of such opportunities to distribute pamphlets and information about Canada among the classes which are encouraged to emigrate.

In addition, the system of lecturing, both by the agents of your department, and by others, especially through the schools, has been carried on much the same as previously, and such gatherings have been utilized to interest people in Canada, and to distribute our literature.

The agents have also taken every opportunity during their travels, as far as possible, of seeing personally the more important of their correspondents.

The school competitions have been continued during the year. The readers and atlases sent over have had a wide circulation, and the same remark applies to the copy books. The untter has been taken up with much interest by schoolmasters throughout the country. They generally speak in high terms of the books which have been placed at their disposal, and of the additional interest taken in Canada in the geography lessons in consequence by the pupils, and also by their parents.

Nearly 1,500 schools have taken part in the competitions so far, and about that number of medials have been distributed. As there are a considerable number of the atlases and readers still on hand, it is proposed to continue the competitions during the coming winter.

Oving to the state of affairs in South Africa, it was considered that there might be much more difficulty than usual in directing the attention of the public to the advantages of emigration to Canada. I am glad to state, however, that the number of letters received in the London offlec has been greater than ever before. In the year from July 1, 1900, to June 30, 1901, the number of letters received was 9,559, an iacrease of nearly 50 per cent over the previous year. This is acclusive of the letters

received (probably about 6,000) in connection with the medals competition, and the distribution of readers, atlases and copy books.

In addition to the usual advertising, I sent post eards, with reply-paid answers, to every farmer in several of the counties. The results were not as encoursging as I had anticipated, only about 4_2^{i} per cent of those with whom we communicated having sent back the reply-paid post cards asking for pamphlets and information on Canada. I propose, however, to make a further experiment in the remaining counties of England this autumn. There is no doubt that through this channel we get into communication with people of the right class, and if they take the trouble to write for pamphlets it shows that they are interested in the matter.

For the same reasons that seemed to render likely a falling off in our inquiries, it was expocted that the actual emigration would show a marked diminution. This, however, has not been the case, as the figures indicate a not unsatisfactory advance over previous years.

During the past year inquiries have been received from most of the countries of the world about Canada. There have been a great many from South Africa, which shows that the settlers in that country have learned something of the advantages of the Dominion from the presence of the Canadian contingents. We have also had inquiries from most of the European countries, from India, from the Australasian colonies and from South America.

As explained on many previous occasions, the Board of Trade returns do not give any accurate idea of the emigration from the United Kingdom to Canada. All the 2nd class and steerage passengers on the various steamers are included as emigrants, whether they are going out for the first time or not, and the emigrants are classified as going to the United States or Canada, aspectally eastern Canada, with the United States, but they are all regarded in the returns as emigrants to the States, while those who go to the States via a Canadian port are returned as emigrants to Canada. The disadvantage under which Canada labours in this respect has been accentuated this year, insamuch as all the emigrants travelling by the Dominion steamers to Parlland are classified as United States emigrants, while in former years when landed at Halfna and Montreal they were returned as settlers in Canada.

In addition to the government offices in this country, there are, as you know, sevcral other agencies at work more or less actively in connection with the promotion of emigration. The Ontario government have an emigration agent in Liverpool. The New Brunswick government have had a special commissioner in the United Kingdom during the last year, and I have had much pleasure in placing our correspondence on emigration matters at his disposal. The Nora Scotia government also have an agent, as well as the British Columbia government. There is, besides, the Canadian Pacific Railway Company, and the steamship companies and their agents are also interested in securing as many people as possible. By all these means, and by the advertising that takes place, a good deal of machinery is utilized in calling attention to the advanteges which Canada offers. There is also the Emigrants' Information Office, a large proportion of the correspondence of which relates to Canada.

It is not necessary to deal at length with the work on the continent, in this report, as you are fully aware of the steps that are being taken, in the interests of the Dominion, in the different countries of Europe.

The British steamship companies, including all the Canadian lines, except one, owing to their agreement with the continental lines, do not take any active part in the conveyance of emigration from the continent, excepting so far as Scandinavia is concerned, and they are not as active there in the interest of Canada as we could wish.

Apart from the understanding between the steamship companies, to which I have referred, Canada labours under a great disadvantage in the fact that there is little or no direct steamship communication from the continent or from Seandinavia to the Dominion, the result being that the emigration from these countries is largely con-

trolled by the companies whose steamers ply to New York and other American ports. As the rates from New York to the western portions of the Dominion are higher than those from Queboc, the New York lines, it is to be faured, take very little interest in Canadian immigration. This applies also to the companies whose steamers ply beween the United Kingdom and American ports.

The importance to Canada of securing the co-operation of the lines running stcamers to New York will be seen by an examination of the following return giving the unmber of passengers carried to New York during the year 1900;--

Passengers.—A detailed statement is given of the number of cabin and steerage passengers landed at the port of New York during the last three years by the various steamship lines.

	Cabin.	Steerage.	Total.
Norddeutscher. Hamburg Line. White Star Line. Che Grégaie Transt. Red Star Line. Holinaf American Line. Holinaf American Line. Holinaf American Line. Prince Line. Prince Line. Prince Line. Prince Line. Thirty His. Prince Line. Atlantic Transport. Other Lines.	$\begin{array}{c} 26,577\\ 23,657\\ 14,948\\ 20,000\\ 8,795\\ 5,559\\ 16,435\\ 5,590\\ 286\\ 286\\ 247\\ 26\\ 247\\ 26\\ 2,727\\ 3,749\\ 601 \end{array}$	$\begin{array}{c} 89,143\\72,245\\29,370\\22,751\\30,643\\16,844\\25,540\\22,887\\17,265\\15,653\\13,847\\4,538\\1,399\\\hline6,262\end{array}$	$\begin{array}{c} 115,720\\ 95,902\\ 44,318\\ 42,711\\ 39,438\\ 36,562\\ 33,279\\ 31,530\\ 30,380\\ 17,551\\ 15,679\\ 14,094\\ 5,800\\ 4,126\\ 3,749\\ 6,683\end{array}$
	137,852	403,491	541,343
	Total	for 1900, 541,343.	

We have had some correspondence about Italian emigration. I am glad to know that the results of your inquiries into the alleged reports of destitution and starvation showed that there was little or no foundation for the alarming reports that appeared in the Italian press. No doubt some people have gone out who do not belong to the classes that are in demand, but they now appear to have all settled down, and I trust they will turn out to be good settlers.

It is not clear that we can do very much more in connection with the promotion of emigration from the United Kingdom to Canada, except on the lines at present followed, unless some scheme of state-aided emigration, or of assisted passages is adopted.

I am not at all sanguine that in the near future His Majesty's Government will be induced to take any action financially to assist emigration.

A commission was appointed by the Imperial Government a little while ago, to proceed to South Africa to report upon the possibility of a scheme by which men of the ycomanry, the volunteers and the reserves might be induced to settle in South Africa. This commission has made its report, and copies have been sent to you. The impression appears to prevail, however, that there is not much probability of any active massures being taken in the direction indicated owing to the expense involved in the recommendations of the commission.

It occurs to me that more might be done in Canada itself to promote emigration from the United Kingdom in co-operation with your agents.

You are aware that both from Ireland, and from the continent, especially from Scandinaria, a not incensicherable proportion of emigratis going out are pre-paid by their friends and relatives already settled in the United States. There is practically nothing of this kind from Canada, and I am inclined to think that some system of sasisted or nominated passages, which would enable settlers in the Dominion to send for their friends from the United Kingdow, might be attended with great advantage. This class of emigration affects these who are not going out to join friends. The success of people who send home for their relatives to join them, is a good advertisement in the neighbouring districts, for the country in which these sending the money may be living.

Then again, very much more might possibly be done by successful settlers in the different provinces of Canada, in keeping up communication with their friends, and in writing to the press in the districts from which they came in the United Kingdom, detailing their experiences, inviting correspondence and offering to assist new comers in any way they possibly could to ensure their successful settlement.

I should like to see the different provinces divided into immigration districts, in each of which an immigration committee could be formed for the purpose of corresponding with people interested in emigration, and of assisting settlers on their arrical in the country. It would not involve much expense, but it would certainly attract a good deal of notice, and would also place us in the possession of information about local districts which could be circulated with great advantage.

A very excellent means of attracting attention to Canada and its resources is by means of displays of agricultural produce. What we want are samples of produce, both in the grain and in the grass, as well as supplies of fruit and vegetables, all of which should be renewed frequently. We not only need a supply that can be utilized as required, but as a store from which the samples can be replaced as they become dirty or broken, from continual use.

I do not know that the pamphlets that we have in use can be much improved upon, although it is desirable that they should be varied from time to time.

The best kind of pamphlet for use here is one which contains reliable information, and written from a knowledge of the inquiries usually made. It is important, however, that such a pamphlet should be kept well within the limits of 4 a_{cx} , with the wrapper, in order that it may be circulated for a penny per copy. If the pamphlets are heavier, it means a largely increased expenditure for postal purposes.

We might also, perhaps, do more to popularize Canada through the medium of the schools and school rooms even than we are now doing. I should like to see a good map prepared by our department specially for school use. There would be no difficulty in distributing thousands in an advantageous manner. They would be displayed on the school walls, and, prepared with a number of pictures round the map, would be a standing advertisement. They could also be circulated among clubs and reading rooms throughout the country.

The same remark applies to sheets of Canadian views. These could be prepared in an inexpensive but effective manner, and would prove of great value as an advertising medium. They might be surrounded with suitable letter-press to give information about the country and stimulate further inquiry.

Useful work still continues to be done at the Imperial Institute. The displays of Canadian produce of various kinds, while not kept up by the provinces as throughly as should be done, are yet very useful as object lessons. The curator takes considerable interest in commercial matters and in emigration, and distributes a large quantity of pamphlets and information dealing with these subjects.

I am glad that it is intended to take greater advantage of the Imperial Institute in the directions I have mentioned than has hitherto been the case.

Just as I am concluding this report information has reached us of the very satisfactory condition of the crops in the different provinces of Canada, and of the large

number of additional hands that will be required to place the fruits of the harvest upon the market.

This promising state of things will, I trust, turn out to be of the greatest possible advantage to the farmers of the Dominion. Their success is always reflected in the letters they write home, and in their visits to the United Kingdom, and is calculated to do more than anything else to encourage a satisfactory omigration of the right elasses to our country.

Your obedient servant,

STRATHCONA.

No. 2.

REPORT OF W. T. R. PRESTON, INSPECTOR OF AGENCIES IN EUROPE.

LONDON, September 16, 1901.

The High Commissioner for Canada, London.

Mr Lonp.—On my return to London from Ottawa in the month of May, I was authorized by the Deputy Minister of the Interior, Mr. Jas. A. Smart, to communicate with the Education Department of Great Britain, and the publishers of school books throughout the kingdom, offering to have all maps of Canada, publishers in descriptive descriptive matter relating to Canada in the reading books edited in Canada by writers having personal knowledge of the subject matter. I communicated with the principal publishers in England and Scotland, and received from all replies expressive of their most cordial appreciation of the proposal; several have already sent in maps and books for revision, and others intend doing so with their new issues.

The most cursory examination of some of the books in question is quite convincing as to the wisdom of the course suggested by the deputy minister. The hamentable ignorance manifested upon Canadian subjects in many of these publications probably explains to a very great extent, the want of knowledge in this country about the enormous resources and the elimatic conditions of the Dominion, to say nothing about the stilliant prospects availing the proper kind of emigrants to Canada.

It will not be out of place for me to refer to the publications, which had been furnished by the Department of the Interior to the emigration branch of the London office during the last two or three years. The advantages which will undoubtedly accrue to Caunda from the extensive eirculation which has been given to the descriptive text book by Mr. E. R. Peacock, M.A., of Upper Canada College, is incalculable. This publication proves to be an agreeable change from the ordinary emigration literature, and was most oprotrum. The attractive mamor in which the book had been propared, and the vast fund of information which it contains, make it a publication that ean be distributed with immense advantage in all classes of the community. The circulation of this book accompanied by the book and the atlasses, also supplied by the department, in very many of the schools in Great Britain, without doubt, furnishes the ground work, wherever it is read, for the dissipation of much ignorance that is only too painfully prevalent in England in regard to the Dominion.

The department also deserves to be congratulated upon the publication of a coloured pamphlet utilide 1 'Free Land,' a large number of which have bond distributed throughout the British Isles. This has proved the most attractive and descriptive brochure, so far, printed for general circulation in the interest of emigration. In a few pages it presents, in a concise form, very many of the salient characteristics of all the provinces, as well as prominent paragraphs indicative of the general character of the inducements offered to emigrants to Canada. While presenting Manitob and the North-west Territories as extensive and new fields for settlement, it also shows that the older provinces are not wanting in inducements to certain classes of emigrants. I have received from booking agents and centres for the circulation of Canadian emigration literature, hearty congratulations in respect to the appearance of this publication. I am confident an extensive circulation of this publication. I am confident an extensive circulation of this publication. I am confident an extensive circulation of this publication. I am confident an extensive circulation of this publica-

In order to thoroughly understand the actual return that is secured for the expenditure of public money in promoting British emigration to Canada, it is advisable that some idea should be had of the number of persons who having made inquiries at tho government offices about Canada, emigrate to the Dominion (within a reasonable timo) after securing the information in question. While it is true that the question of emigration is frequently a subject for long and serious consideration, it is with the majority, I believe, only a question of a few months. Very many thousands have applied for information at the government offices in Great Britain during the last few years, with the view of emigrating to Canada. This is particularly the case in connection with the London and Liverpool offices. In the London office this year between the 1st of January and the 30th of Junc, over 7,700 applications for information were received, occasioned no doubt by notices and advertisements of one kind or another in the British press. I, therefore, respectfully submit to your lordship the necessity of taking steps in order to learn how far the information furnished by the government offices is satisfactory to prospective emigrants, and also the proportion of those who apply for information who eventually emigrate to Canada.

I am well aware that this cannot be done unless a slightly different clerical system is adopted from that now in operation, but in the interest of the work of emigration, and with a view to discovering whether any other policy is advisable than that now in vogue, a change in this respect might with advantage be effected. With the information at the disposal of the department, which may possibly be secured by the adoption of this suggestion, I respectfully submit that the concentration of official energy could be more advantageously carried on. The expense involved in a change of this character would be immatcrial in comparison to the advantage to be gained, and the work could be carried on more effectively and with a greater degree of intelligence. In the continental work a policy of this character has been adopted in order to locate the most promising emigration districts, and the department is able to keep in touch with the localities from whence come a desirable class of emigrants. I am inclined to believe that by the partially successful working out of this suggestion in England, much of the emigration energy, for which at present the returns are not eneouraging, can be centred more satisfactorily upon promising fields for active and personal work, than can possibly be found by a wholesale distribution of literature when no efforts are being directed with the expectation of learning in how far the propaganda which is being made serves the purpose for which it is intended.

One eannot avoid hearing the constant demand or agitation in Canada for a larger number of British emigrants. Large sums of money and a great deal of energy have been expended in endeavouring to attain that end. So far it ean hardly be said that the desires of the people of Canada have been realized in this respect. Yet a careful survey of the situation here forces any intelligent observer to the conclusion that, while Great Britain possesses an enormous emigrating population, the condition of those who desire to seek a home elsewhere, is not as favourable as that in many of the emigrating centres upon the continent. I will not say that the proposed British emigrant is not thrifty, but I am safe in giving expression to the thought that the conditions are such that he is not able to anticipate the contingency of emigrating to the same extent as the continental peasant, and he is, therefore, not as well prepared for establishing himself in a new country as the vast majority of the Scandinavians, Germans, Belgians, Austrians, Hungarians, as well as others of the better class of the emigrating population of Europe. Great Britain is teeming with tens of thousands who would be desirable settlers in Canada in every respect, either in the older provinces or in the new territories, but who are hampered in the manner suggested. There are also hundreds of heads of families willing to invest the amount necessary to reach Canada if they could receive, on their arrival there, some form of assistance, say, equal to the amount that their transportation would cost, as a loan, to enable them to begin life as settlers upon the agricultural lands of the Dominion. During the last fourteen or fifteen years one organization in England-The Self Help Emigration Society, Farringdon Street, London-claim to have sent out to Canada, emigrants represented by these classes, over six thousand souls, and more than ninety per cent are now in the Dominion.

It is not necessary that I should quote at length the comments of the British press pone this question, but at the moment of writing this report a letter appears in the London Times upon this question from the Hon. G. W. Ross, Premier of Ontario, who has been spending some months in Great Britain. The letter is as follows:—

' To the Editor of the Times:

⁴ Sin,—In discussing the question of emigration to Canada with the officers of the Dominion and Ontario governments in this country, 1 an greatly impressed with the fact that upwards of 70 per cent of the people who leave the British Isles go to the United States or to some foreign country.

' From figures placed in my hands it would appear that between 1891 and 1900. 726,000 persons emigrated from the United Kingdom, of which 520,000 (or 72 per cent) went to the United States; 90,000 (or 13 per cent) to British North America; 55,000 (or 7% per cent) to the Cape and Natal; and 38,000 (or 5% per cent) to Australia. Assuming these figures to be accurate they have a two-fold significance: (1.) That 70 per cent of those whom you have educated in your day schools at great expense, and trained in industrial methods in your technical schools and factories, transfer their allegiance to a foreign power and thus contribute the intelligence and skill they acquired here to the industrial development of the greatest commercial rival with which the British Empire has to compete; and (2) that the colonies, which are capable of being a source of strength to the Empire, and whose growth is of the utmost importance to its future, are suffering for the want of the very material, which is now being transferred to foreign soil, without a serious effort being made, so far as I can gather, to divert it into more desirable channels. And this leads me to observe, parenthetically, how much more might be done in the future, under perfectly legitimate influence, to create a bias for British as against foreign dominions in the minds of the youth of these islands by laying greater stress upon the teaching of the geography and resources of the British Empire, particularly of the great self-governing colonies as such. Assuredly the emigration statistics would soon tell a different tale to what I have mentioned.

[•] From my intercourse, during the last two months, with many of the public men of the United Kingdom, I an gready impressed with the growth of that imperialism which favours a closer alliance between the colonies and the Empire. Better trade relations are considered as another bond of union. To me it appears that a concerted movement on behalf of the colonies and the Empire for the preservation to the Empire of the surplus population of the United Kingdom, would be one of the most immediate and effective bonds of alliance which could be devised. Canada has now a population of nearly five and half millions. Make it the or twelve mullinos—as it might be made if we got a proper share of the ensigration from the United Kingdom, and our defence, is with such a large population Canada would furnish basis for the food supplies of the Empire, and an admirable recruiting ground for the army and navy. Moreover (and this is of great importance) with an addition to our population of Canadins to the Empire would be greatly and permanently strengthened.

'Is such concerted action possible? It is certainly desirable, and is worthy the attention of the public men of this country.

' Yours truly,

G. W. ROSS.

' London, Sept. 9, 1901.'

The suggestions contained in the formation premiers have all 1 monotone work with as heatly an uppreciation in Constant day have already a strength of Graze Bravin. In an extended without a creation of the correspondence on Town at a start

¹ Nevertheles we are shady with Mr Re, there is a second to second the all beginness means the base of British emigration a consider proton the British Empire rather than to torigin countries. The growt problem at an analysis we will be to emotion the Empire is the bright is a second part of the second part of

In addition to the reasons heretofore given to justify more enlargest prepare to converge British enlargence to Canada the attitude of the use Ansenbard Common would on the question of on-ignitizin is one that should not be verplosed. If, is no secret in obligated is reason in this country, that a mech more active equired from perogramoly will be undertaken by the Cammonwealth than has hitleres moreless the polycy of even the more agreesive of the Antenlian volumica is utility respect. This is has been volved by the Antenlian volumica is utility respect. This is has been volved by the Antenlian volumica is utility respect. This is has been volved by the Antenlian induces of an English polar, which is in very else touch with Antenlian induces the second of the Antenlian volume.

¹ A tresh effort is to be made to bring noticeably before the British public the advantages officed by Austalia to intending emigrants from the old scattery. It is frared that for some years to come South Africa will absorb the halk of England's anglus population, and in order to meet this competition the older combines are unexposing to adopt a more spirited emigration policy. The means general or Austanian have been communicated with on the subject and they have been instruced by walfocks in the oppletic policy. The means general or Austanian have been communicated with on the subject and they have been instruced by walfocks in order to reset the last disc scatter of the form of the second the policy of the policy of the policy of the second by walfocks in Austanian, the oppletication of which next less than that of Gree tre Lawford. Mastralaking the oppletic of the fideral government assumes his fulfiles in England, the agents general will be also to deve to are time to advant of the part of the gread general will be also to deve to are time to advant of the part of the poly fulfiles the instruction of a sub-scatter is assumed by using a state the poly that there is a source of the grant general will be also to deve to are time to advant sub-scatter is a state to a state the poly that the poly of the part of the part by compare also the part of the part by the poly of the part of the part by the poly of the part of the part by the poly of the part of the part by the poly of the part of the part by the poly of the part of the part by the poly of the part of the part of the part by the poly of the part by the poly of the part of

The domain for luborizes in Manihola and the Northwest on account of the proper term from the harvest framilistic an account for whether part harvest causes to the magnificant agricultural resources of Canada when could superland the second reading public with the fullest possible information about the Demission A second molecular properties of the second second second second second molecular interset was subleaded as also Canada as any future of the second function of the second Kinglon. Unfortunately the greater propertion of the instant second second

the cost of ocean and railway transportation, but among them were a very large number who, had they possessed the necessary means to enter upon life in a new country, would have proved most acceptable settlers in Canada.

The continental governments formerly objected to the enigration of their subjects, and put serious obstacles in the way of intending emigrants. They have, in some measure, changed their policy in this respect, and while they continue to make the way hard in respect to countries which are not placed on their favourable lists, by the use of so-called 'benevolent aid for enigrants,' they have permitted certain societies a latitude in this respect in regard to particular colonizing countries which they profess to believe are best suited for their contryrem. In this manner certain of the European countries are interested in trying to divert emigration to such trans-oceanic countries where they have commercial interests or where they expect to have in the future.

Germany and Austria have lately commenced to endeavour to divert the emigration from these countries to the River Platte and other South American districts, while previously it was just to these American countries that the continental governments objected to allow their emigrants to go. The ecosyneucce is that South American is the most active competitor that Canada has upon the European continent, not only by the apparent favour of the government, but also owing to the very low rate at which emigrants are carried.

The difficulties in respect to ocean transportation and the heavy rates which are now charged from continental ports to Canada could, nudoubtedly, partially be met by connection with a line of steamships from a southern port in Europe to Canada. On necount of the difficulties consumerated and the cost of transport it can be fairly assume 1 that none but a desirable class, those who by thrift and industry have accumulated ample and sufficient means to settle in a new country, can possibly take advantage of the opportunities officience by Canada to become settlers in the Dominion.

In evenlusion, I have only to add that I am forced to the conviction, by a careful consideration of all the contending influences at work, both upon the continent, in Scandinavia and in Great Britain, that it will not be possible to retain the volume of emigrants from this side of the Atlantic to Canada without the most persistent carrying on of an active and systematic propagnada. There are many other fields for emigrants to whom the most alluring inducements are offered but in respect to no one of them, I believe, are there the same prospects for success, through industry and sobriety, as in Canada. Notwithstanding this, however, the inducements honesity offered to intending emigrants must be continually presented if the D-minion is to secure a population from Europe to assist in the cultivelies of Ler year areas of virgins soil, and the promotion of the agricultural interests so earnestly desired by the people of the Dominion.

Your obedient servant,

W. T. R. PRESTON.

*

No. 3.

REPORT OF G. H. MITCHELL, ASSISTANT CANADIAN GOVERNMENT AGENT AT LIVERPOOL.

15 WATER STREET, LIVERPOOL, July 15, 1901.

The Right Honourable The High Commissioner for Canada, London.

Sm,—In presenting my annual report respecting the office work in connection with this agency, perhaps I may be permitted to refer to the fact that 21 years have elapsed since I entered the service as the sole assistant of Mr. Dyke, who was the agent here at that time. The increase in the work of the office since then has been very great, and the year which has just ended has been busier than any of its predecesors.

In addition to the large number of what may be generally termed trade inquiries, there have been between seven and eight thousand letters written in answer to correspondents presumably contemplating emigration. These have been people of all classes, from men possessing thousands of pounds down to those who have not sufficient money to pay for their passage. In all cases which appeared to be specially desirable from our point of view endeavours have been made, in many instances of course successfully, to arrange for personal interviews either here or at their homes, and good results have been achieved in this way, but this is a matter that has to be handled very delicately, and it is surprising to find how often the suggestion of a meeting appears to alarm the inquirer, and how frequently it is declined. Your other agents have possibly met the same difficulty, and I know of unarranged calls which have been resented. There are various reasons for this. Many are timid to commence with, and anything which to their mind appears like an attempt to 'rush' them or force the pace in any way arouses their suspicions and leads to the abandonment of their half-formed intention. Many others look upon emigration as a confession of failure here, and are not anxious to advertise the fact that they contemplate such a step; others have family or business reasons for not wishing their intentions to become prematurely known.

Acting under your instructions a rather larger newspaper advertising campaign was entered upon this year, and with the best results. A very large proportion of the applications for information came from men with considerable means, and it was the desire of probably nine-tenths of nury correspondents to take up land or get employment at farm work. In my opinion there can be no question as to the advantages to be derived from constant and widespread newspaper advertising; it keeps the suggestion of emigration before the many thousands who are dissatisfied with their present position or prospects, accustoms their minds to the idea, and in course of time our aims are accomplished. I do not look upon the time or material as wasted even though a number of correspondents may write out of mere curiosity; the pamphlets are distributed and one news knows when they may strike their mark.

In regard to numbers the Board of Trade returns for the year 1900 give the total leaving Liverpool for Canada as 45,180, of which number 31,464 were foreigners, leaving 16,725 as the number of British. The United States figures from Liverpool during the same period were a total of 94,002, of which 65,573 represents foreigners, and 29,389 British. It is, however, well known to you that the Board of Trade furver are misleading, and the actual facts are that the British figures for the two countries should approximate much more closely, as a far larger number of British passengers go via

the United States to Canada than go via Canada to the United States. The reverse is the case in respect to the foreigners. Particular inquiries made at the offices of the steamship companies show that a substantial increase in the British bookings to Canadian points has taken place during the first six months of the year compared with the corresponding period of 1900.

One of the data on which a calculation can be based as to whence our emigrants are drawn, is that furnished by the bonus lists, but even these are very incomplete. They only deal with emigrants to points in Manitoba and the North-west Territories, and do not include the bookings at the steamship companies, Canadian Pacific Railway, and extrain other offices whose numbers comprise more than half the total, but such as they are they show that over 50 per cent of the emigration from England, and over 30 per cent of the total from the British Isles is from the northern part of England, served by this office, and any one regularly visiting the ships leaving Liverpool for Canada and the United States respectively can see that the Dominion is obtaining the finest of the emigrants who are leaving this country.

It is difficult to say how many emigrants an agent is responsible for, as in many cases the first impetus came-from it may be pressure of circumstances, from an advertisement, a newspaper paragraph, at a lecture or an agricultural show, from a friend who had acquired particulars for himself, or from one already in Canada. The intending emigrant gets what information he needs, either here or elsewhere, books his passage and sails in the great majority of cases, without giving any notification of his departure. The only plan is to keep on disseminating information in the sure conviction that it will eventually have its effect; make the idea of emigration a familiar one to everybody, and by advertising keep the public informed where particulars and reliable advice can be obtained. This is without question now being done more extensively than ever before, and from this office alone during the past six months there have been circulated some 40,000 publications of one kind or another. This has been done in response to individual application through the post, and by callers, to lecture audiences, to steamship agents, schools and agricultural shows; I have not the exact figures for the twelve months, but they cannot be less than 80,000. It will be readily understood that the manual and clerical labour involved in this work alone is very great.

A good deal of correspondence is necessary in connection with Mr. Jury's work obtaining entry forms and making application for space at agricultural shows; making arrangements for lectures, arranging appointments for interviews, and so on. Then there are official and other letters which bring up the total outward correspondence for the vera to 9.855 letters.

The work of the Rev. J. Bridger, the Organizing Secretary of the Emigration Committee of the Society for Permoning Cluristian Knowledge, continues to be done by the staff of the office, and in the frequent absence of Mr. Bridger and his colleagues, I take charge of the matter. The work is almost entirely connected with emigration to Canada, and as their system of putting chaplains on most of the Canadian ships and matrons on unany appeals to the clergy throughout the country, to whose notice it is brought by official and other widely-read publications, the consequence is that many emirants, grits particularly, avail themselves of this organization.

The lantern-silid work continues to grow, and during the six months forming the last winter season my three sets of silids were in constant use, and at times a fourth set had to be borrowed to meet the demand. The dates were arranged so close together dhat they had to be passed on from one operator to another without a day's dalay, and to keep things going without hitch throughout the season constant watchfulness and much letter writing are necessary, as a failure of the silics to arrive on the day fixed would be a seriously annoying thing to both lecturer and nuclence. Many apprediative letters are received in this connection describing the close attention of the audiences and the warm interest evinced in the proceedings. As there is no, or at any rate very little, expense attached to this work beyond the cost of the silds it must be admitted that this his a very cheap method of advertising, and even if perhaps the majority in

many of the audiences have not reached an emigrating age, a pictorial representation besides adding interest to the lecture, enrice conviction in regard to the statements made as to the country's extent and resources. Good work is thus being done in impressing correct ideas upon the minds of those who will form the emigrating class of the next generation, so that in future years there will not be the difficulty which we experience to-day to remove groundless, and because long-held, deeply-record prejudices. I am here referring to those lectures given by schoolmasters to the pupils and their parents and friends. Similar henefits will result from the distribution of the schoolbooks for which there has been so much demand. It is very natural, however, that interest in the one set of views should become exhausted, and to maintain it and induce lecturers to continue to present Canada to audiences it is very desirable that new sets of alides abued be prepared from time to time.

There have been 37 parties, comprising 1,535 children, sent out by philanthropic societies and others under the regulations of the department, all of whom have been inspected and certified in accordance with my instructions.

There has been a very good variety of pamphlets for distribution, but if it is permitted to refer to a suggestion I have made before I would again allude to the real benefit of having some publications referring in more detail than is possible in a general pamphlet, to distinct districts. Such a publication was that entitled ' Hard Wheat Belt,' which had proved very useful dealing as it does with the Edmonton and Moose Mountain districts, and giving particulars as to the nature of the country, the quality of the land, the communications which exist, the homestcad land available, or the price of land which could be bought. At any rate great assistance could be rendered to the agents in this country if the immigration agents and land agents in Canada were to include in their annual reports to the department a brief description of their respective districts, noting the progress of settlement, giving an idea of the demand for labour, the land unoccupied, its nature and chief characteristics, prices, and any other particulars which would be of interest to intending emigrants. Reprints of these would perhaps serve as pamphlets and answer the purpose referred to above, but in any case they would keep your agents informed of many details which it is desirable that they should know. Something might also be done by them to induce successful settlers to write an account of their experiences to the newspapers in this country, especially those published in the districts in which they resided here.

Attending to correspondence and callers, visiting outgoing and incoming stammers, arranging for lectures and arginelutural shows, the circulation of lantern slides, seeing to the distribution of printed matter, keeping in touch with the alipping companies, reporting matters of interest to your office, in addition to the many routing duites connected with the office, the time of myself and staff has been fully, and I venture to hope, profitably employed.

Your obedient servant,

G. H. MITCHELL.

17

No. 4.

REPORT OF ALFRED F. JURY, CANADIAN EMIGRATION AGENT FOR THE NORTH OF ENGLAND.

15 WATER STREET, LIVERPOOL, July 15, 1901.

The Right Honourable The High Commissioner for Canada, London.

Sin.—My work for the year just closed consisted, as in previous years, of attending agricultural and fat stock shows, lecturing, withing steamship agents and keeping them supplied with our literature, interviewing intending emigrants at their homes, when they required some special information about Canada or desired to talk the matter over before the whole family, and meeting people at this office who before finally making up their minds to break up their homes and leave this country, wished to discuss their prospects with some one who had lived for years in Canada. Detailed monthly reports of this work have been made to your office.

I still regard exhibiting at agricultural and fat stock shows as the most important feature of my work, because there one meets the classes which furnish the most desirable emigrants and also the most likely customers for our products; there we have a chance of showing the land hungry of these isles what the free grant lands of Canada will produce, and the products exhibited prove that our lands are of a very high quality and that our climate is good. Comparisons that may be made enable us to point out that our exhibits are grown on similar land to that of which we have millions of acres to give away. Then those shows afford a splendid opportunity of advertising Canada by the distribution of pamphlets, nearly 100,000 having been circulated in this way during the year. Most of this printed matter reaches the homes of the agricultural classes, and must inevitably show good results in the near future. Some private firms among the largest in their particular lines in the United Kingdom, attend these shows almost entirely for the opportunity afforded to exhibit their goods and distribute their advertising matter, and when this is done by good business firms desiring to get in touch with the same people we want I think it is almost conclusive evidence that we are working along the right lines. I am pleased to be able to say that through the energy of our own department and the kindness of the Department of Agriculture, I have been able to make a better exhibit of our products than hitherto, but as there is always room for improvement I trust that I shall receive such further support as will enable me to make an exhibit at these shows thoroughly representative of the varied products of Canada. There has scarcely been a show at which there has not been one or more inquiries from persons wishing to be put into communication with some exporters of Canadian products; hitherto this has been a rather difficult thing to do, but since the publication by the Department of Agriculture of a list of Canadian exporters of food products, the difficulty in this respect has been overcome. The Royal Agricultural Show held at Cardiff recently was the most successful show that has been held for years, and the best show from our point of view held in this country during my time here. We had fifty feet of space, which is about as much as any ordinary exhibitors have, and through the kindness of the Hon. Sydney Fisher we were supplied with a splendid exhibit of Canadian products from Glasgow; we had a very attractive stand built characteristic of Canada, and our display was universally voted among the most attractive on the grounds, and I think the results will repay the additional outlay.

With regard to the lectures delivered by me during the year, I think they have about averaged with previous years, the largest attendance being at the Victoria Institute. Worcester, where the spacious hall used for the popular Saturday night lectures was full even to the utnest limit of standing room; the smallest audience I had was at the village of Metheringham, in Lincolnshire, where them were only 100 people in attendance, the number being influenced by a very heavy fall of snow two hours before the lecture commenced. In previous years I have had a few smaller audiences than the smallest last year, but I have had much larger, and I think I am safe in anying that my audiences have averaged one hundred and fifty, most of them adults, at all the lectures I have delivered since I have been in this country. One great difficulty I meet with in making arrangements to lecture in rural districts is the obtaining of a hall to speak in; the village school in most cases is the only place suitable, but this is not always available.

During the year I have visited quite a lot of people at their homes, and most of them I am glad to say are now in Canada or are about to leave. I have found the personal visit most successful; it is especially useful where people have some objection to Canada, as a personal discussion is the most effective method of removing it. I have also called upon a large number of steamship agents, whom I have found to be alive to the advantage of booking passengers to Canada; a large percentage of their clionts go to western Canada, the steamship agents thereby getting the vestern bonus, which to them is a great incentive to work. No better class of men can be obtained to work for any country than the local steamship and excursion agents who make the booking of passengers a business, and who more than any one else are brought into contact with the travelling public. These agents are often asked their opinion by intending emigrants as to which is the best country or colony to go to, and consequently they have many oportunities of helping the place that pays them best. I are convinced that one of the best ways to increase the number of emigrants to Canada is to make it more to the interest of the local steamship agents to send them there.

I have been much surprised since coming to this country at the large number of Englishmen I meet who have already tried their fortune in Canada. I have seldom appeared anywhere in a public capacity on behalf of Canada that one or more have not approached me to tell their experience; those who have failed in realizing their anticipations in Canada and in consequence blame the country and not themselves, are composed almost exclusively of men who have been what is called 'well brought up' in this country, that is the sons of the wealthier middle class who satisfied of their own superiority and with a certain amount of capital, sometimes of very limited amount, have expected to make a fortune in the colony in short order; they never had the faintest idea of the kind of life they were going to, or the quality of the man required to suceced; their ideas being all in the sky, when they have to work on the earth they fail, and come back here and blame Canada, its people, its climate, or its means of transpertation. I have met a number of men of this class, but during the whole of my time here I have not come across more than half a dozen who left this country poor to seek in Canada a field for their labour or the land on which they might become farmers, who have come back dissatisfied. Nearly all those who went out in such circumstances and have returned have done so on account of relations dependent on them who would not emigrate, or through some accident; they still have a warm place in their hearts for our country, and express a wish and often a determination to go back as soon as they are free to do so. I have also met others of this class who are visiting here, and when I am talking to people on behalf of Canada, their testimony is often volunteered in favour of the Dominion as being a good place for the struggling tenant farmer and the agricultural labourer to go to.

I am glad to be able to report a gratifying increase in the numbers of passengers leaving this country direct for Canada, in spite of the withdrawal of the Dominion Line from the St. Lawrence route; and in view of the state of trade here, I believe it to be a sure indication that the tide of emigration is setting towards Canada. I hope every

25-ii-24

means will be adopted to enable the agents here to take full advantage of the turn of the tide which I am convinced is taking place. One way of doing this would be to have small pamphlets (similar to the one entitled 'The Hard Wheat Belt' which describes the Moose Mountain district), dealing specially with the various districts where there are lands open for homesteading or cheap lands for sale. Prospective settlers are always asking for more definite information about particular localities, as before leaving here they would like to be able to settle on the locality they are going to in Canada. If these pamphlets dealt with the kind, quality, price and quantity of the land to be disposed of, its narness to a railway station, to fuel, whether wood or coal, its water facilities, the game there is in the district, and the kind, quality and quantity of the crops that have been raised, the cost and supply of labour, (because that is one of the first questions a tenant farmer asks.) our work here would be very much simplified and assisted.

A publication which has been in great demand at the agricultural shows was the copybook, and I am inclined to think that more immediate good would be done by its distribution in this way than by its use in schools, as it would go straight to the houses of the people and to the notice of the parents, thousands of whom in fact themselves applied for copies.

Believing we are about to reap a good harvest from years of hard work under rather unfavourable circumstances, and assuring you that I shall leave no stone unturned to bring about so desirable a result, I subscribe myself,

Your obedient servant,

ALFRED F. JURY.

No. 5.

REPORT OF W. L. GRIFFITH, AGENT IN WALES.

WESTERN MAIL BUILDINGS, CARDIFF, WALES, July 12, 1901.

To the Right Honourable

The High Commissioner for Canada, London.

My LORD,--I have the honour to submit my fifth annual report from this agency. I am happy to be able to say that the favourable position which Canada has held in the minds of Welshmen generally, has not only been sustained, but has been improved upon.

During the past year there has been increasing disposition on the part of the public in the district which this agency deals with, to regard Canada as the colony offering the greatest attractions for intending emigrants. This has been shown by largely inoreased inquiry, both by letter and in a personal way. During the first six months of the present year, 1901, the inquiry by letter directed to this offee has equalled the correspondence of the whole of the preceding year, 1900. This is not due to chance, nor to the operation of general conditions, but is the result of Canada being continuously and prominently kept before the public eye by judicious divertising, and also by the Welsh press generally: where every one has been a second to this agency by the Welsh press generally: where *Marl.* So much is this the case, and so large a space has this paper devoted to Canadian matters, that it has become quite well known in the Dominion.

Newspaper advertising is one of the most potent means of promoting emigration, the result being that inquiries are elicited and our literature placed in the hands of the applicant.

The work in Wales has also received a valuable stimulus as the result of the visit to Canada, at the invitation of the Hon. Clifford Sifton, of three prominent Welshmen, namely, Mr. Lloyd George, M.P., Mr. W. J. Rees, ex-mayor of Swansea, and Mr. Llewelyn Williams, M.A., and the publication of their report. The prominent position which these gentlemen occupy has caused the press to refer very frequently to the report, the demand for which has been so large as to be extremely gratifying, and it cannot be denied that it has fastened the attention of the public in Wales upon Canada, in a most desirable way. The number of inquiries for this document which come to hand written in the Welsh language, is very much larger than anything I have previously known. At the Royal Agricultural Show the demand for this report was such that we disposed of over 15,000 eopies. We also had a number of copies printed in the Welsh language. In addition to the value which has accrued to Canada from this report, the delegates have never missed an opportunity to promote the interests of the Dominion. Particularly has this been so in the case of Mr. W. J. Rees, J.P., of Swansea. From time to time he has been putting in a good word for Canada; not long ago the papers reported an address of this gentleman's made to a meeting of tenant farmers in Breconshire. At the Royal Show, held in Cardiff, Mr. Rees took the opportunity of interesting several hundred farmers in Canada. I attach a copy of a report of the matter to which I refer, and which proved an advertisement unique in value and in form. The following is from the Western Mail :-

ii

1-2 EDWARD VII., A. 1902

'SIR JOHN LLEWELYN'S TENANTS-INTERESTING SPEECH AT THE SHOW.

[•]During the day the show was visited by about 300 of the tenants from the estates of Sir J. T. D. Llewelyn, Batr., and Mr. Charles Yanables Llewelyn. Their visit was due to the generosity of their landbords, and they were entertained at luncheon through the kindness of the Canadian authorities. At the luncheon Sir J. T. D. Llewelyn presided, supported by Mr. C. V. Llewelyn, Messrs. W. L. Griffith, Canadian Government agent for Wales; W. J. Rees, John Francis, J. C. Howell Thomas, F.S.I., Swansea, and H. M. Cook, Carmarthen.

'They were met in that tent, Sir John said, at the invitation of the Canadian government, and he thanked them on their behalf. As they knew, Mr. W. J. Rees was one of the set of commissioners who went out to Canada to report upon the progress of agriculture in what was one of the most important of the British colonies. In that colony there were large tracts of land wanting agriculturists. In Wales, it appeared from the report drawn up by the commissioners, they could learn a great deal from the Canadians, who had a good system of agriculture. In the past Canada had learned something from the mother country, and now she was able to show what could be done in Wales. In that colony there were large tracts of land to take up, and Canada invited Britishers to come out and help them to colonise those large tracts of land, and no doubt there were many good agriculturalists in this country looking out for new homes, and he commended the pamphlet prepared by Mr. Rees and the other members of the commission to their careful attention. They should see what was being done in Canada, and if they could not get on in this country they might be able to do so out there. His own and his son's hope and belief was that the tenants on their estates were satisfied and happy. Unfortunately, that was not the case everywhere. In some places, too, there were several sons, members of the same family, seeking holdings, as they could not all succeed to the holdings that their forefathers had held for generations before them. If they wanted homes where they would still be under the British flag they could find what they wanted in the colony of Canada. In conclusion, Sir John expressed his thanks for the hospitality extended, and also his appreciation and thankfulness at finding that so many of his tenants had accepted his invitation to attend the show.

⁴ Mr. W. L. Griffith, who responded, regretted the absence of the Hon. Mr. Fisher, and said that one department of the work carried on under the Ministry of Agriculture in Canada was a series of experiments in almost everything that affected the farmer's welfare. Stock was maintained, seeds were tested, and samples of the best obtainable were given to the farmers free of charge.²

' CANADA AND THE EMPIRE.

¹ Canada, to use an expressive Canadian phrase, has "eut a wide swathe" at the lkyal Show. Its Minister of Agriculture, the Hon. Sydney Fisher, was one of the distinguished visitors attracted to Cardiff last week, the Canadian stall was about the pretistic and most effective at the show, and not the least interesting of the week-end in the Canadian stall was about the Canadian government conjointly. We had a practical manifestation of Imperiallsm, as well as of the consideration which is not softshed manifestation of Imperiallsm, as well as of the consideration which is not softsh, in the spectacle of a typical imperialts and landlord like Sir John Llewelyn publicly attesting to the davantages (like Canadian offers to farmers of the right sort, and advising the adventurous among them to seek longe the world's suggestive. That the Dominion is destined to play a big particule the world is unquestionable. It is progressing at a pace which only the soft.

can adequately realize who are brought into intimate contact with her oversea business. In five years Canada has increased her proportion of the enormous quantities of foodstuffs imported into this country from 7 to 16 per cent—in a word, more than doubled it in half a decade.

⁴ If our surplus munhood must seek a home elsewhere, it is desirable that it should not be entirely lost to the Europire. And Canada is not ourly doughter in her mother's home, but also mistress in her own. Wales, where the oldest and most important of our colonies has in recent years been admirably represented is, we are pleased to learn, contributing on a rising scale towards the growth of the young ginut who sprawls across a continent for nearly five thousand miles between Halifax and Yancouver. Last year established a record in the number of Cymrie emigrants to Canada.³

During the year there has been a strike among the Pearbyn at Bethesla. Several thousand mea left their employment, and it seemed possible that some of them might feel disposed to go in for farming in Canada. The matter received the requisite attention, but up to the present nothing has come of it. The opportunity, however, was embraced of placing the claims of Canada before a large industrial population, and this has resulted in a considerable inquiry from which good must result.

In July, 1900, the Minister of the Interior visited Cardiff, where he was accorded a very good reception. His visit undoubtedly resulted in placing the work here on a better basis than it had hitherto occupied.

During the year a show case was rented in the vestibule of this building and below this office. In this show case is a fresh and attractive exhibit of grains, grasses, minerals, and other products of Canada. The grains are both in the straw and in glass bottles. In the centre of the case is a casket containing a number of Klondike anggets. There are also a number of photographs. This exhibit is changed from time to time and kept fresh and attractive. It is estimated that on a normal day about 22,000 people pass this exhibit between the hours of s ann and 10 µm. During holday time, or when anything occurs to cause an unusual influx to the town, of country people, these numbers are greatly exceeded, reaching probably 100,000 or more in a day. The building is in close proximity to the Great Western Station, the Cardiff Station of the Barry Railway, and of the Praneth Railway, so that a very large proportion of the passers by are non-residents of the town, either coming from or going to the railway station.

During the past spring Mr. Adamson, of Virden, visited Cardiff, for the purpose of procuring a number of competent farm hands for Manitoba. I did all in my power 50 further Mr. Adamson's project, and a number of young men of a good class accounpanied him out from Wales in Jane. I think that if Mr. Adamson would notify in advance that he was coming over it would be advantageous, as parties could be partially formed before he got here, and his work generally facilitatel.

That results do not immediately spring from our propaganda is well known to those engaged in the work, but this spring I came across numerous instances within a short period of time, proving conclusively that it sometimes takes years before our work bears fruit. The cases I refer to are a family who have been corresponding with me for over four years. This family have settled in Kostenay on a bonestead. The next family, including five persons, had been writing to me for over three years; they are now on a homestead near Calgary. Another family who had been considering net was that of a young farmer, whose father was considering the aubject of curjeration to Canada some twelve years ago. Seeing a paragraph in the newspaper, his interest was renewed, and he wrote me for our pamphelt and sailed for Wisainge in May 2. Instances could be quoted al lb, but these quota go to show that no gauge of the work which does not allow for this kind of thing, is a fair one.

When the work of this agency was commenced, the annual emigration from Wales to Canada was something over a dozen, all from the town of Caroliff. Now, there is a naiderable movement to which every county in Wales contributes a share, and the

movement is a growing one. It is difficult to arrive at a precise statement in regard to the number of emigrants. The bonus returns furnish no test. The head offices of the steamship companies book the bulk of the passengers in Great Britain, and probably so far as Wales is concerned, book a larger proportion than elsewhere. Liverpool is known as the equital of Wales, and from its proximity to the principality, the majority of bookings are made at the head offices of the company in Liverpool. These bookings do not appear as no bonuses are allowed to the steamship companies.

In some of my previous reports I have referred to the condition of the Welsh colony in Patagonia. The interest in this colony has been greatly increased by the fact that the Rev. D. Richards, chaplain of H.M.S. Flora, has recently returned from Patagonia, and has delivered a report to the Foreign Office, in which it is believed he makes very strong representations as to the hardships which the colonists endure, from the fact that they most strenuously retain British feelings and citizenship, and the time appears to have arrived when, for a variety of causes the Welsh in Patagonia are prepared to emigrate en bloc. Their position is most interesting from our point of view. The colonists have had several meetings for the purpose of considering where and when to emigrate. By reason of its climate and position to South America, South Africa has been rather prominent in these deliberations. Mr. Cecil Rhodes, too, is reported to have offered large tracts of land in Rhodesia. There is also a feeling that the British government views with favour the idea of transporting the colony to South Africa. On the other hand, the press of Wales, which is that read by the Welsh Patagonians, has exerted a powerful influence in favour of Canada. That these people would make splendid settlers for Canada, seems to be without doubt. Some thirty years ago, deluded and disappointed, they arrived in Patagonia in an absolutely destitute condition. Facing almost incredibly difficult conditions, in a barren country, where the food supply was inadequate, and the water supply unwholesome, the colonists have transformed, by undaunted bravery and industry, what was a few years ago literally a desert into a fairly fertile region. Living on nothing but dry bread and water, the supply of which was sometimes putrid, and absolutely without the aid of capital, they have built up a settlement, which under the circumstances, has commanded much admiration from unbiassed judges. The development of the colony is altogether the result of the system of irrigation adopted. In the early days of the settlement, the colonists, having nothing better than spades, dug ditches to convey water on to their land. The result of this was, on a very limited scale, very fine crops were produced. Later on the Welshmen constructed an irrigation canal, and all that need be said in regard to this, is that a few years ago the value of this work was estimated at £217,000. Beginning these works with only spades at their disposal, they have developed a great capacity for irrigation work, which they now carry on with what they call 'horse shovels,' or what I presume are known in Canada as 'horse scrapers.' The soil in the Chubut Valley rests upon a rock, and recent developments indicate that in order to continue the production of crops, it will be necessary to adopt a system of drainage which will be more expensive even than the irrigation; the reason being that the water is retained upon the sub-stratum of rock, and brings salt to the surface of the soil, this salt rendering the growth of crops impossible. This is a feature which is causing the greatest concern to the settlers. Under present conditions they feel adverse to facing the toil involved in the necessary drainage works. Not only as possible immigrants are these Welsh people interesting to Canadians, but there is much alleged as to their political condition, of which it may be unwise to give details, which must elicit the sympathy of every British citizen.

The meeting of the Royal Agricultural Society at the show in Cardiff, this year, was one of the most successful on record. Special steps were taken to make a creditable Canadian exhibit. The press notices were very appreciative. One editorial reforred to our stall in the following words: 'The Canadian stall was about the pretitest and most effective at the show? An illustration of the exhibit was produced by the Western Moli with the following notice :--

'THE CANADIAN STALL.

'One of the most interesting exhibits on the Royal Show ground is in the name of the Dominion of Canada. From an art point of view it is extremely effective, an elliptical bridge headboard divided into several panels. On one is a large oil colour painting of the rising sun, representing the prospects of the Dominion of Canada. On the right hand side is a harvesting scene in Manitoba, also in oil, and it makes a very bold and attractive picture. The left hand panel shows a fruit farm in Ontario. On either side of these pictures are two panels in white, on which is boldly lettered in gold: "The nearest British Colony," and "Free grants of 160 acres of land." Surmounting the structure are seven shields, cach one having the coat of arms of one of the provinces forming the great confederation, and giving a capital idea of the enormous extent of Canadian territory. Crowning the central arch is the coat of arms of the Dominion of Canada, and above this is a crown, suggesting the loyalty of the colony. The whole of the outside of the stand is enamelled in white and the pillars are fluted, giving a most pleasing effect. In contrast with the exterior the inside of the stand is upholstered in turkey red, upon which are placed numerous samples of the products of Canada. Here are to be seen in great variety the grains, woods, minerals, and fruits, gold nuggets from the Klondike; minerals from Manitoba, and farther west; samples of timber from the Pacific coast; fruits and minerals from Ontario and Nova Scotia, and other places of eastern Canada. We feel that our Canadian visitors will view with approval the steps which the Canadian officials of the department presided over by the Hon. Clifford Sifton, Minister of the Interior of Canada, have taken to give Canada a prominent place in the Royal Agricultural Show of England. The enterprise which the Canadians exhibit in thus availing themselves of the opportunities which the show gives for attracting the attention of the British agriculturalist may raise some fears in British breasts, when the scarcity of good farmers and of good labourers is remembered; but there is, at any rate, this consolation, that no one emigrating to Canada is lost to the British Empire. Prominent notices on the stand are to the effect that all government publications, and also the report of Mr. Llyod George, M.P., Mr. W. J. Rees (ex-mayor of Swansea), and Mr. Llewelyn Williams, M.A., upon the suitability of Canada as a field for British settlement, may be had free. The designer and builder of the stand is a young Welshman, Mr. B. Jones, who resides in Liverpool. The stand is in charge of Mr. A. F. Jury, of Liverpool, who was for many years in eastern Canada, and Mr. W. L. Griffith, of Cardiff, who was for a considerable time in western Canada.'

As I have noticed earlier in my report, Sir John Llewelyn delivered a speech in which he dealt most generously with the attractions of Canada to the British agriculturalist. If there is any value in advertising, and in placing claims directly in front of those we desire to influence, then the affair I refer to must be of the best value.

The Canadian exhibit at the Royal this year was on a much more elaborate scale than anything I have known us to arrange since we engaged in the work. The flattering remarks in the newspapers seemed to find endorsement in the erowd of persons of exactly the class whom we desire to influence, who pressed around the stand, and who kept the staff busy in providing the pamphlets, which were more cagerly asked for than I have previously seen. There is no doubt in my mind that it is true cocomy to spend a moderate amount of money on a representative exhibit of a reasonably elaborato character, than to spend a small amount of money on a dipolay which excretes but little interest, and upon which many of the charges are as great as in the case of the bigger show.

The experience of Mr. A. F. Jury, gained in continually attending for several years past the large agricultural shows all over England, contributed materially in making our stall the centre of attraction which it was. Private firms who have built up large and profitable concerns, by advertising at these shows, employ men who by long experience practically become experts to display their goods. Mr. Jury's position is somewhat similar, and possessing as he does a knowledge of Canada, not often equalled, it rendered his work at this show invaluable.

The visit of the Hon. Sydney Fisher to Cardiff, his contribution of a special article to the press, and also his speced before the ship owners, importers, and other representative men in this district upon the resources of Canada has a stracted much attention, and has been of great value in making more widely known the resources of the Dominion. The comments which have been made upon Mr. Fisher's speech by responsible business men, go to show the great value which is placed upon the utterances of Canadians of first rank when visiting this country. Their value to the Dominion cannot be overstated.

In conclusion, I have very much pleasure in bearing witness to the growing diffacy of this agency; although only a few years old i thas attende a standing in the community. As previously remarked, when the work was commenced here, the emigration from Wales to Canada amounted to very little, and that little all from the town of Cardiff. Now there is a very considerable movement in which every consult will be also shares. My thanks are due to the Welsh press for thir generous and unfailing sourport, and also to Mr. Archer Baker and to Mr. John Ennis for their unfailing courtesy.

Your obedient servant,

W. L. GRIFFITH.

No. 6.

REPORT OF H. M. MURRAY, PRINCIPAL AGENT FOR SCOTLAND.

52 ST. ENOCH SQUARE,

GLASGOW, June 30, 1901.

The High Commissioner for Canada, London.

MY LORD,-I have the honour to submit my report in connection with the work of emigration in Scotland and the border counties of England for the year ending June, 1901.

It is satisfactory for me to be able to put on record the fact that notwithstanding many adverse influences the number of emigrants from Scotland has not in any way decreased, but rather the opposite. This in the face of the large numbers of agriculturalists, who were drawn to the ranks of yeomanry and militia to serve in South Africa, and the inevitable searcity of farm labour in the rural towns, is to my mind most satisfactory. Scottish farmers are hard put to it this season to find sufficient labour and will require to import a greater number of men and women from Ireland for harvesting purposes. This searcity in the labour market has brought about a natural increase in the wages, so that experienced ploughmen can now readily command £40 to £50 per annum with partial, and in many cases, whole board and lodgings. Keeping this in view, it is, as I have said, satisfactory to know that Scotland has during the past fiseal year sent to the different provinces of the Dominion, 1,900 good hardheaded, healthy men and women, nearly all of whom were connected with either agriculture or mining. A large proportion of those who went out were possessed of a moderate capital. Several had sold off farms and stock and took out with them sufficient to make for themselves and families a good start in one or other of the provinces of the Dominion.

In so far as the emigration of the farming classes is concerned, I do not think that the advancing of whole or part passage money would have much effect. Many young sons who had already decided upon going out, and who might accept temporary assistnces so as to have more ready eash on hand against their arrival. I make exception in the case of men with large families, where their little capital would be largely curtailed by the expenses incident to the journey. Then again there is the domestic servant who finds it hard to scrape together the necessary funds to transport hereaff, it may be to the west. In the case of these people I would earnestly advocate a little judicious help. If a properly administered system was arranged either to regulate assisted passages, or to crect wellings on homesteads prior to the landing of families, much good and a desirable increase in the agricultural population of Cauada would, I am certain, be the result.

The well to do condition and appearance of those who have gone out, both male and female, has been remarked by all government inspectores; they being in 'marked equtrast to the usual run of people going to the United States, and I am beopfut that all will meet with success and accounting reports to their friends over here, a suggest which if systematically carried out would prove one of the most beneficial nids to emigration.

By your lordship's request, I have adjudicated the papers that were sent in from the Scottish schools whose scholars competed for the medal offered by the department

for the best essay on Canada. No better way of educating the young on the history, geography and possibilities of Canada could well be found, more especially at present when the spirit of imperialism is so much in evidence. The papers were well written and showed that the writers had taken both interest and pleasure in the contest for priority of position.

During the year 2,955 letters were received from various correspondents and 2,512 sont out, being a large increase over last year. Canadian affairs in general are coming more and more to the front every day, hence an increased demand for information, and 1 sincerely trust with like results.

The accommodation provided by the Allan Line has been very satisfactory, the berths being clean, tidy, and wholesome. There being only £1 (one pound) difference in the passage money as between second and third class, 90 per cent of the number travel by the former class; the rates being £5 10s. third, or £6 10s. second, from Glasgow to Quebes, and to Winnipeg £8 and £9 respectively. Cards of introduction to the government agents in Canada have been given in the majority of cases, and as before gratefully accepted. The people feel more ta ease and settled in their minds knowing that on their arrival their individual interests will be, as far as possible, carde for by an offleer of the government.

Might I be permitted to bring before you the case of the 1,200 children who are annually caref for in Mr. Quarrier's Homes at Bridge of Weir. Your lordhin, as also the Deputy Minister of the Interior, are fully cognizant of Mr. Quarrier's objections on principle to several of the clauses of the Ontario Children Inmigration Act. The deputy minister visited these homes two years ago, and saw for himself the condition of the inmates. He is, I am sure, in full accord both with Mr. Quarrier and myself, that some modification might be made in the Act so that the children could again find homes in Cnanda and have a share in developing its varat resources, both to their own and the country's benefit. I may say that these children, especially the girls, are eagerly sought fairt here owing to the great scarcity of female help.

The number of bona fide emigrants who sailed from the Clyde to Canada during the twelve months amounted to 1,256, against 1,096 has year; 180 also sailed from Glasgow via New York, and 520 by Liverpool steamers, being a grand total, so far as known, of 1,966 souls. I append a statement made up from my correspondence, personal arrangements with the passengers and information obtained from the steamship companies as to where the enigrants were drawn from. I should say that fully 60 per cent went to Manitoba and the North-west, about 250 miners to British Columbia, and the balance principally to Ontrario.

The work of lecturing with the aid of lantern views in the rural districts has during the winter season been well earried out by Messrs. Duncen and Grant in their respective districts, Mr. Grant in the south and west of Sootland and north of England, and Mr. Duncen in the north and east of Sootland. May voluntary lectures were also given, our three sets of slides being daily in use for a period of over four months. Many clergymen and schoolmatsers take a delight in this work, and lead valuable aid in instilling into the young mind facts and figures regarding Ganada, which without the lantern views might not be so readily absorbed. As quite a number of the schools in Sootland had already been supplied with text and copy books the young people were in a sense prepared to look upon scenes they had previously read about. In the same way our own agents and others intersted in Canada have lactured to the farm labourer and towns people, and 1 think with satisfactory results.

More and better pictures are still wanted. Each agent should be provided with a complete set of the finest photographs that ean be taken showing the principal cities and towns from the Atlantic to the Pacific seaboard, and from a commercial as well as an emigration point of view, pictures should be shown of our large foundries, engineering works, agricultural implement works, cotton and woollen mills, &c. The people of this country have no conception of the wealth of Canada in this respect, and corrything possible ought to be done to bring the facts home to them. Farming scences REPORT OF THE PRINCIPAL AGENT FOR SCOTLAND

SESSIONAL PAPER No. 25

from the breaking up of the land to harvesting, the condition of the farmer in his stock and dwellings, &c.; all this arranged and carried out in a practical manner would do much good in showing the farmer and farm servant as well as those engaged in commercial pursuits what Canada really is and the wealth that is in her mines, lands, forests, and waters.

A large number of the shows held in different parts of Sectland and north of England have been attended. As a rule good weather favoured the meetings, the Highland at Inverness, and those at Glasgow and Ayr being specially well patronized. It know from experience that many good people have gone out as the result of conversations held with the agents at these shows.

The practical demonstration of Canada's wealth cannot be over-estimated.

The display made by Canada at the Glasgow International exhibition is one of, if not, the finest and most practical in the grounds. As said by the London Times: "The agricultural trophy and exhibits was in itself worth the paying of a fare from London to Glasgow to see them.' The Scottish Farmer says: 'Canada is our premier colony, and it makes a display in this exhibition of which the mother country may well be proud. The account of the Dominion embodied in the official catalogue makes a useful introduction to a survey of the contents of the Canadian house. If young active fellows who arc without encumbrance, and desire to strike out for themselves, do not after reading this embark by an early steamer for the Dominion, the attractions of Scottish agriculture must be still strong. The rapid growth of the Dominion as an agricultural realm is seen in the fact that the area under wheat in 1900 was double what it was in 1890. Canada offers exceptional facilities to the farmer, and her unclaimed homesteads are open to all who desire to make for themselves a home and an honest living. The enterprise of the Dominion is magnificently illustrated in the house devoted to her exhibits. and it is a remarkable tribute to the engineering skill of the new colony that with but a dozen large factories making agricultural implements, she sends across the ocean such a display of these as is to be seen in "Canada."

¹ Prominent among these exhibits is the great central trophy, devised and crected under the supervision of Xr. Hay, and out of sight the finest thing at Kelvingrove. This trophy aboves samples of all kinds of Canadian farm cereal produce, contributed by 250 farmers in different parts of the Dominon, and illustrating the truth that while she extends northwards so as to merit the title "Our Lady of the Snovs" has has a sunny clime and vast expanses of fruitful fields wherean are grown an abundance of food for the millions of man and beast. As an artistic design this trophy is not more remarkable than as a visible representation of the splendit wealth of our greatest colory.

All other newspapers throughout the country are equally favourable to us. The display is certainly well worthy of such comments. The daily average attendance since the opening has been over 50,000, among whom are many of the sort of people Canada requires. Emigration literature is freely given to those who appear angious to acquire a knowledge of the Dominion, and either one or other of the department's agents are always present to give information. I have not the slightest doubt but what this exhibition will help materially in the sending out of young men and women of the right class to fill up our vacant lands and share in the prosperity which Canada undoubtedly offers to willing hands.

Advertising in the best portion of the Scottiah press has been consistently carried out during the past seven months, and in some of the more important, all the year round. Paragraphs have been written from time to time, and through the courtesy of the ditors, a place has always been found for them. In the *People's Journal*, a newspaper that has a circulation all over Great Britain and the colonies, scarcely a week passes without some mention being made of Canada and her ran to possibilities, and as a direct result, many of our best emigrants have corresponded and gone out through seeing those articles.

Regular supplies of our literature are sent to booking agents, libraries and farmers' clubs. Old copies of Canadian newspapers being utilized in the same manner, we

get directly in touch with numbers of people who perhaps would not otherwise be made aware of the possibilities Canada offers to the agricultural settler.

In conclusion, the great prominence now given to Canada and Canadian affairs makes me very hopeful of future prospects. Never a day but what in some form or other Canada is mentioned in our newspapers; what was at one time called a country of snow and ice is now becoming better known as the land of plenty.

During the season I have received much help from the steamship booking agents, men who are invaluable aids to our work, and with whom I do all possible by frequent visits, &c., to keep them in close touch with Canada.

I have again to thank your lordship and immediate staff for the invariable courtesy received, and the continuous help and encouragement given me in carrying out tay work.

Your obedient servant,

H. M. MURRAY,

Principal Agent for Scotland.

CORRESPONDENCE on Emigration matters received at Glasgow from January 1 till June 30, and number of emigrants who sailed from the Clyde direct to Canada during the same period.

County.	Number of letters received.	Approximate Number of passengers sailed.
Aberdeen	145 99 12 16 16 19 19 146 173 28 88 88 88 88 88 151 151 151 151 151 151	60 1853 1114 4 7 7 8 4 8 4 8 4 8 4 8 5 5 5 1195 5 1 195 5 1 195 5 1 195 5 1 195 5 1 195 5 1 195 5 1 195 5 195 19
	2,026	1,256
From Glasgow via New York " Liverpool to Quebec		180 520
Total		1,956

No. 7.

REPORT OF JOHN GRANT, AGENT IN SCOTLAND.

PARKHURST, DUMFRIES, June 30, 1901.

The High Commissioner for Canada, London.

MY LORD,-I have the honour to submit the following report dealing with the work of this agency for the year ending June 30, 1901.

This work has been carried on systematically throughout the year, the summer months being devoted to attending shows, fairs, markets, and personal visitation, and the winter months to lecturing.

At all the leading agricultural shows in the south of Scotland and the north of England I was in attendance and exhibited Canadian products in the tent provided for that purpose.

Our exhibit, which is representative of the whole Dominion, is becoming yearly increpopular to these aboves, for the farmers are beginning to realize that, as the Minister of Agriculture pointed out when speaking at the reception recently held in the Canadian pavision at the Glagow International Exhibition: "We are not in competition with the home farmer, but with the foreigner." And we consequently have many thousends of visitors during the season, a large percentage of them being agriculturistas. We are thus afforded many opportunities which could not otherwise be obtained of engaging them in conversation and distributing literature to advantage.

At the larger and more important shows, such as the Highland Seeiey³, the National Fat Stock Show, and the Ayrshire, the stand was used and we were enabled to make a much more comprehensive display, our exhibit being considered the principal attraction at all the above shows. At the National Fat Stock Show, which was held in the Waverley Market, Edihourgh, a luge Ontario squanes which was part of our regetable display, was certainly the leading feature of the whole show, attracting by its conronous size and weight (250 Hos), the attention of every visitor to the show in the direction of the Canadian government stand. Here I would venture to suggest that we should be supplied from time to time with exhibits of this nature, as they meer fail to draw attention and are really the best kind of advertisement we could have to help us in our work.

The winter months, as already stated, were devoted to lecturing, principally in the rural districts and villages of this agency, where I delivered several lectures weekly. I also fulfilled several engagements, made by Mr. Murray, in large industrial centres, such as Glagow, Greenock and Paisley.

My lectures in the rural districts were always well attended, and in many instances the halls and schools were crowded to the doors. In the towns I had very large audiences, averaging from 400 to 1,400. My course of lectures extended over the counties of Dumfries, Kirkcudbright, Wigtown, Ayr, Lanark, Renfrew and Cumberland.

Here I would like to suggest that more attention should be paid to the large industrial centres as a field for lecturing, these contra ser continually intracting and alsorbing a large percentage of the aurounding rural pepulation, many of whom after a year or two of town life would be glad to get back to the land again; and with the development of Canadian industries there is certain to be a large movement of the industrial classes to Canada. I have much pleasure here in stating that my lectures during the past winter season have been attended by larger audiences than on any former occasion since I came to this country.

During part of the present month I was in attendance at the Glasgow International Exhibition, being stationed in the Canadian parvillion for the purpose of giving information regarding Canada and distributing emigration literature. The literature supplied for distribution was eagerly sought after, both by the general public and by the many schools visiting the exhibition in charge of teachers; to the latter the descriptive text book and atlas, specially prepared for use in schools, were handed, and will doubless prove of great service in giving the rising generation a better knowledge of Canada than their fathers seem to possess. This is a step in the right direction, for it must be borne in mind that the boys and girls of to-day are, figuratively speaking, the men and women of to-morrow, and it is to them we must look for any extensive movement from this country to Canada in the near fature.

While stationed at the exhibition I had many inquiries regarding the Dominion.

It is gratifying to see how splendidly Canada is represented at the exhibition, her exhibit, which is second to none, being quite an object lesson, and a revelation to most visitors, and to hear only expressions of appreciation of and surprise at the many and varied evidences to be seen on every hand of the wonderful resources of the Dominion.

The commissioners are to be highly congratulated on the magnificent display they have made, their efforts in this direction cannot fail to be of great service in the interests of commerce and emigration between this country and Canada.

It is pleasing to note that the war, contrary to general expectation, has been rather fravourable to Canadian emigration than otherwise. The returning volunteers and peomen do not seem to be much impressed with South Africa, and their opinions will largely regulate the movement of others who were only waiting for the close of the war to rush off to the Cape. I feel confident, from many conversations I have had with intending emigrants, that it will be some considerable time before South Africa can hope to enter into active competition with Canada as a field for settlement. Meantime I hope to see as the result of our efforts in behalf of Canada, a yearly increasing stream of migration to the Dominion, which was never more popular in this country than it is at the present time.

In concluding this report I would venture to suggest that as the motor car seems likely to be in general use at no distant date, the agents working in the rural districts should be provided with them as they would be of great service in visiting places remote from the railways.

Your obedient servant,

JOHN GRANT.

No. 8.

REPORT OF THOMAS DUNCAN, AGENT IN SCOTLAND.

CARNOUSTIE, July 1, 1901.

The High Commissioner for Canada, London.

My Loup,—I have the honour to submit to you the following report $\mathbb{D}f$ my work as emigration agent for the northern and eastern counties of Scotland for the year ending June 30, 1901.

As the best means of bringing the claims of Caunda as a field for immigration before the people of this country. I have attended as many of the earthe markets, hiring fairs and agricultural society above as possible, distributing a large quantity of literature and personally talking and giving information to a great many people. Our exhibit of cereals, wood and minerals is much admired, and especially in the case of our grains and grasses, a considerable quantity of which I carry with net to all aboves, the rich beautiful oolour of the straw showing that it has been matured in a land of sunshine, and giving a very favourable impression of the climate.

For the purpose of keeping up the interest in our exhibit, I may be allowed to suggest that a large quantity of this elass of exhibit should be supplied to Mr. Murray. As it often happens that we have to display our stuff in very bad weather, when it is impossible to keep it dry, then while it is still wet pack it away in boxes and send on to the next show, of course in a very short time under treatment of this kind the straw becomes dirty and discoloured, and the impression gained from it is unfavourable. To obviate this difficulty a small quantity kept in store would remedy the matter as we could freshem up our exhibit from time to time during the season.

At the agricultural shows we have a splendid opportunity of distributing our literature and conversing with people who are daily taking a deeper interest in our country, and I am often gratified by hearing the remark that Canada must be a country of wonderful resources.

Another most important branch of our work is the lecturing. During the past season, with free exceptions, I have confined myself to lecturing in *construct* schools. As a rule my audiences were large, people often coming miles to attend. Judging from the attention given to my remarks, the interest taken in the limelight views shown, the many questions asked, and the quantity of literature distributed at the close of the lectures they were more successful.

The district covered during the winter by lectures extended from the Lothians in the south to Elgin in the north.

I have given the usual attention to correspondence and personal visitation, and I might here remark that I frequently meet men with families very anxious to \wp to Canada, but not having the means wherewith to pay their passage money and enough left to start them on homesteads. In view of the large number of people from foreign countries who are settling in western Canada, I cannot help thinking that the settlement of English-speaking families in the west would be of so much more value to the country that the department would be more than justified in devising some scheme of assistance whereby such men would be enabled to go out and make a start upon the land.

Since the opening of the Glasgow exhibition I have spent part of my time in the Canadian pavilion supplying literature to inquirers. I have had the alter of meeting a number of people in the pavilion who had attended my between, so have

25-ii-3

of them after looking at our splendid exhibit in that building said they had thought I had painted Canada in very bright terms in my lectures, but one look at our exhibit more than justified all that I had said, one gentleman remarking: 'Truly you have come from a land of plenty;' another remarking: 'Who would not be proud of Canada when you compare it to the other foreign exhibitions on the ground.'

There can be no doubt that the agricultural and fruit exhibits will prove a great stimulant to emigration to Canada from this country.

The Canadian text book and atlases are in great demand. In the exhibition there are many school teachers with their classes who visit our building, and are supplied with these books, while many others who have not the opportunity of attending the exhibition are asking to have them sent.

In concluding my report, I would just say that while the emigration from Scotland is not all that could be wished for, it is very gratifying to know that for this season so far the number who have left Glasgow for Canada is considerably in excess of last year, and in view of the fact that agricultural labourers are becoming more scarce in Scotland every year, and wages have now reached a point never before reached in the history of this country; these and other matters point to a decrease rather than to an increase.

Your obedient servant,

THOS. DUNCAN.

No. 9.

REPORT OF C. R. DEVLIN, CANADIAN COMMISSIONER, IRELAND.

14 WESTMORELAND STREET.

DUBLIN, July 8, 1901.

The High Commissioner for Canada.

Mr Low—Fortunately for Ireland the Board of Trade returns to date show an extraordinary decrease, 100.1, in the numbers emigrating; fortunately for Canada the same returns diselose that during the month of May this year we seeured for Canada exactly three times the number we did during the month of Amy, 1000; and during the month of June of this year we have had twice the number we had during the month of June last year.

During the first six months of 1901, the numbers going to Canada from Ireland constitute an increase of eighty per cent over the numbers who went during the corresponding months of last year.

Your agents in Ireland are happy indeed to be able to present such a gratifying statement.

On more than one occasion the attention of the government has been invited to the consideration of the difficulty of obtaining anything approaching accurate statistics. We do not know, nobody knows, how many leave Ireland for Canada. The statistics to which I have just referred deal solely with those who embark at Irish ports. But, by far the greater number of Irish emigrants to Canada embark at English ports, and I have reason to believe that they are then more frequently than otherwise classed as English emigrants.

Let me explain. Just now the only steamers going to Canada and which call at an Irish port are those of the Allan Line. The steamers of the Elder-Dempster and Bearer Lines do not now call at an Irish port, and during many months of the year the Allan steamers proceeded direct from Liverpool to Halifax or Portland. The Dominion steamers all go to the United States.

To resume the situation, when the Irish emigrant embarks at an English port, he is most generally classed as an English emigrant. When the steamer proceeds direct to a port of the United States, he is put down as an emigrant to that eountry, although as a matter of fact he may be going to Canada. And so much is this the case that I have personal knowledge of numbers from the south of Ireland bound for Canada, and who as a matter of convenience or for other reasons have taken the steamers of the White Star, Canard and Dominion Lines.

In the early part of the year, and indeed at the time when most of our emigrants were going to Canada, these difficulties forced themselves before us.

Âgain, the rates from most parts of Ireland are higher than the rates from many parts of England. There is a preferential tariff in existence. The English emigrant is carried from London and other points to Liverpool free; the Irish emigrant must pay his way to Liverpool or to Londondery.

But I am happy to be able to report that all mail steamers of the Allan Line now call at Londonderry, and every facility as well as comfort await the emigrant.

Next year in the month of May the Cork Industrial Exhibition will open. I have submitted to the government my views in connection with this exhibition which promises to be one of unusual proportions. Already the contracts for the construction of the buildings are awarded. The exhibition will has its months, and it is expected

· 25-ii-34

that the attendance will average at least one hundred thousand per week. Lately I have had interviews with the lord mayor of Cork and the execution saure me that they would be delighted to see Ganada represented at the exhibition. All Ireland is one in regard to this exhibition, determined to make it a success. National and Unionist forces have joined hands, have liberally contributed, are working together to make this event an immense success.

I cannot too strongly dwell upon the importance of and the advantages offered by the Cork Industrial Exhibition of 1902. It is years since an event of such magnitude occurred in Ireland, and it may be years before anything like it will take blace again.

It is for the government to decide what action, if any, in the matter would be suitable. It would not be a serious difficulty to move many of the exhibits from Glaggow to Cork, and those with whom I have conversed on the subject belive that a good exhibit of Canadian products, natural and manufactured, would bring before the people of Ireland in a striking manner the wealth and the resources of Canada.

Canadian manufacturers, exporters and business men generally would do well to seriously consider every aspect connected with this show.

It is quite true that we have had many large exhibitions, notably those of Chicago, Paris, Glasgow and Buffalo.

But then the conditions here are so different. I admire the motives governing the noble and patrictic men who denounce emigration. I agree with many of the rises they hold. But I am a Canadian, and I see that every year numbers leave, and for many years to come numbers will leave. I am anxious to get them for Canada, It is just as fair and as reasonable that Canada should get them as the United States, South America, Australia, South Africa, &c. People then leave and will be drawn to Canada when they fully understand the advantages which the Dominion offers. Again, Ireland is not presently a manufacturing country. The importations of manufactured goods are enormous. What an opportunity, therefore, for our manufacturers and unerchants!

Now, a word about the work of the year. I have attended a number of fairs, meeting the people, &c. In Dublin. Cork, Limerick, and at many other points during the year I have made—or my assistants have made—extensive exhibits of agricultural, mineral and other products which have attracted attention and been noticed favourably by more than one newspaper.

The newspapers of Ireland have had many most flattering articles on Canada which compensate handsomely for any occasional mistakes that may be made.

Our lectures have been more numerous, and have always been largely attended. They have been given before agricultural societies, literary elubs, &c., and I have had the honour to be invited to speak upon Canada in some of the most distinguished institutions of the land.

During the year our offices have been visited by numbers of Canadians who call for their correspondence, or seek such information as it is in our power to give and which may be useful to them.

Indeed it was only the other day, without cost or inconvenience to either party, that a large sale of property in Canada was made through the office.

On all occasions I have done my best to serve the interests of the business comnumity in Canada, and the number of inquiries which we receive is a matter of much satisfaction.

I re-affirm, after four years' experience, everything which I have said in previous reports. Our Canadian manufacturers and exporters have opportunities in Ireland which are not surpassed by any other country. Ireland buys and for years must buy.

I do not believe that there is any other feeling than one of indifference on the subject of the cattle embargo. I have met those qualified to speak for the masses of the people, and they say that the removal would not bring injury. I should add that the cattle business is not over-popular here, and this will be understood when I state that the good land in many cases is reserved for the cattle, and the poor land given to the

people. During the half year ending June 30, we received at the office 3,117 letters and inquiries; we sent out 3,208 letters and parcels of literature.

In addition literature, blue-books and papers have been sent to the public libraries, reading rooms, schools, colleges, public offices, many large hotels; and posters have been sent in all directions. We have advertised in every way possible. I have done up best to do up full duty in this as in other respects.

It is impossible to obtain such large results as we would wish. We are three agents in Ireland, and occasionally we get help from able and devoted men sent over from time to time. But after all it must not be lost sight of that everything which goes to make Canada popular in Great Britain has an opposite effect with the great majority of the people in Ireland.

In Great Britain are the head offlees of the steamship companies and there they advertise largely, which I wish they would do here. In Great Britain are many agents of the provincial governments, offlees with able meu of the Canadian Pacific Railway, the Grand Trunk Railway; here, none. To Great Britain Canadians constantly go; here few come, and the Canadian visitor always does so much good. In Great Britain emigration is encouraged by religious sectices, and indeed by all kinds of societies, by the leading statesmen of the country and supported by rubble opinion, and in every way; here it is denounced as a curse. In Great Britain every saceney is favourable; here not one. Notwithstanding all this we are able for the work which offers, and I do not ask for the appointment of other agents.

But our Canadian railway companies could with profit, 1 am sure, have at least one agency in Ireland. This would be an advantage to Canada, and in a short time a source of very considerable revenue.

Another subject and I have done. Some few weeks ago in a Canadian newspaper I read the following, to me most interesting item :-

¹ Any farmer desiring to secure the services of good Secth farm labourers can do so by forwarding at once to the Commissioner of Immigration at Winnipeg an application stating the number of such labourers he requires, and inclosing for each such labourer the sum of 825 to assist in prepaying the passage. This advance will be retained from the wages of the labourers who are being bired at from 8180 a year opwards, according to their ability. As it is intended the party will leave Scotland early in June, those farmers who desire to secure an experienced farm hand for the temporary advance of a portion of the passage money abould communicate at once with the Commissioner of Immigration as mentioned.²

We are constantly besigged by agricultural labourers for information as to the best way of obtaining an assisted or free passage to Canada, and who would be most willing to go in the same way and on the same conditions. Much of the agricultural work in England is done by Irish labourers who go in thousands every year from the west of Ireland.

Sometimes, and indeed often, application is nucle to the office for d-imestic servants, and the fares are in many instances advanced; but when those applying decide to deduct from the wages afterwards the money thus advanced, it is only fair that the rate of wages should be made as liberal as possible.

I have every reason to anticipate at least as large a measure of sneeess during the coming year as we have had during the year ended June 30.

Your obedient servant,

C. R. DEVLIN.

Ĭ.

No. 10.

REPORT OF E. O'KELLY, AGENT IN IRELAND.

HARBOUR BOARD BUILDINGS,

LONDONDERRY, June 30, 1901.

The High Commissioner for Canada, London.

Mr Loup.—I beg to submit to your lordship my annual report ou emigration from Ulster for the year ending June, 1901. I am pleased to be able to state that emigration has been fairly satisfactory with regard to numbers, and conspicously so having regard to class, of which I can be a better judge than of numbers as I see almost all who correspond with me; but I do not see numbers who leave via Belfars, Glasgow and Liverpool, in fact an agent has no accurate way of estimating the numbers who leave his district for Canada under present circumstances.

The demand for our pamphlets and maps has increased enormously since I opened an office here four years ago, and interest in Canada proportionally so; but not the number of emigrants to a like extent, because of the prepaid passages to the United States, and of the free and assisted passages to Queensland.

Here in Ulster the great bulk of the people would much prefer making homes in Canada to either the United States or Queensland, to the former from a feeling of logalty, to the latter because of what they read, and are told about Canada; but more still from Canada's proximity so clearly brought home to them by the map of the world in our descriptive atlas now in thousands of Irish homesteads.

Time may, and no doubt will, enable us to turn the great tide of emigration from the United Kingdon to Canada; but in the meantime we are losing thousands of desirable settlers, the most desirable in fact, because they are of the hard-working farming elass who would bring sufficient means to start in Canada with a vigorous young family about them, if they had a house ready to go into, which they would be willing and able to pay for by yearly instalments. Meeting this class of man, the head of a family, which altered conditions of things do not allow of their living as their fathers did, and who would emigrate to Canada with a small but sufficient capital, if such could be spent entirely on cost of outfit, stock and living for the first year, is the hardest thing in the life of an emigration agent, because he feels both parties would gain by such a scheme, which would also. I believe, do away for ever with any claim for assisted passages. As heretofore I have had eshibits at all the great and local shows in Ulter, and also attended fairs and markets throughout the prorince; but have been most buay in Belfast and vicinity where the farmers dispossessed by the Belfast Water Commissioners live.

About half of the claims for compensation by these people are listed for the summer assizes held in Belfast in July, but Mr. Ryan, the government arbitrator, tells me more than half will not come on before next spring.

Your obedient servant,

EDWARD O'KELLY.

No. 11.

REPORT OF JOHN WEBSTER, AGENT IN IRELAND.

14 WESTMORELAND STREET,

DUBLIN, August 23, 1901.

The High Commissioner for Canada, London.

My LORD,-In compliance with instructions received I beg to submit a report of my work for the twelve months ending June 30.

During the summer months I have been, as in other years, engaged in attending fairs and making display of our Canadian products at the agricultural shows.

The Irish cattle fair is a monthly event for every large or small town in the country, and here the farming classes assemble in very large numbers. I have attractive posters displayed drawing attention to Canada as a field for emigration, also announcing my presence in town, with an invitation that people should call upon me. I find this a useful method of advertisement, as many take advantage of the opportunity at thesfairs. I am able to have distributed, with advantage, a large amount of our literature. I endeavour to arrange that I can attend the fairs in same county on consecutive days.

The displays of Coundian products which we make at the county and royal agricultural shows, afford a splendid demonstration regarding some of the resources of the Dominion. We make the best possible use of the material at our disposal. I would respectfully suggest that in addition to cereals, grasses and minerals, we should receive from time to time supplies of roots and fruits, also good wood samples.

I have often wished for a sample of the black loam from the prairies. To the agriculturist this would prove most interesting.

I trust it is the intention of the department to have Canada represented at next year's Cork International Exhibition. I are mere a representation there would materially help the Dominion. I presume that at the conclusion of the exhibitions, some of the exhibits will be divided up among the Canadian government agents. As regards representations of Canadian products I consider it is unvise to make an exhibit at all, unless we can make one worthy of the Dominion.

During the winter months I was occupied filling lecturing engagements. Applications for these lectures come from agricultural and other societies, also from elergy of every denomination. I think that without exception every invitation received was necepted. This kept me busy, in some cases having to lecture five times in one week. In my opinion the lecture is one of the most useful methods for bringing Canada foreibly before the people; we, therefore, spare no effort in securing and responding to as many applications as possible. After lecture there are often many questions to be answered from people desirous of further information. I take the opportunity offeed for distribution of literature among the audience. I carry with me my owit outif for illustration of lecture; it consists of a powerful acetylene lautern, periable serven, &c. The slides are supplied from the London office.

I have at times to lecture in the large halls of big towns, but as the agriculturist is the man most needed for Canada. I much prefer to secure engagements in the rural districts, where, of course, I can speak to an appreciative audience on the subject of agriculture as carried on in Canada.

The newspaper advertisements which commenced about November, largely ifereased the amount of our correspondence; it also considerably increased the number of callers at the office. I think it would be an advantage to our work that the adver-

tising should be more continuous, and that the amount expended on same should be spread into a period extending well into the summer months.

On rescipt from your lordship of copy of cablegram received from Canada relative to splendid crop prospects in Manitoba, and consequent demand for hired help with good wages, we immediately had this cable printed on posteards and posted throughout the country. The result was satisfactory, and led to much inquiry.

Most of the Irish emigrants, indeed I might say nearly all, who every year leave for the United States, travel on a prepaid ticket sent to them by some friend in the country. I often think what a help to our work it would be if some system of assisted emigration could be formulated.

The Board of Trade returns do not give a fair idea of those who leave Ireland for Canada, the bulk of our emigrants leave via Liverpool, and unless they buy their tickets in Ireland they are registered as English emigrants. It is, therefore, impossible to get accurate returns. I am glad to note that in comparison to the figures as given for last year, our returns for this year's work show a marked improvement.

Your obedient servant,

JOHN WEBSTER.

No. 12.

REPORT OF D. TREAU DE CŒLI, AGENT IN BELGIUM.

ANTWERP, July 2, 1901.

The High Commissioner for Canada, London.

My LORD.—I have the honour to present you my annual report on the work done in Belgium during the year 1900-1.

I employed this year the same methods to place before the public the advantages offered by Canada as in the two previous years, namely: Free distribution of literature, lectures on Canada in the winter season, that is from October 1 to May 1, and visits to fairs and shows during the summer months. At these fairs and shows I canase a large number of lenflets on Canada to be distributed, and I keep myself at the disposal of any former wishing for information.

The last three months of 1900 were passed mostly in the Flanders giving lectures in every locality from where parties had already left or intended to leave for Canada.

The first three months of 1901 I lectured mostly in the province of Laxemburg, when MM. E.I. Colleanx and Schastica Deleau, from Deleau, Manitoba, and Mr. Jules Maron, from Morinville, Alberta, assisted me greatly in bringing to my notice the localities where they had friends. These gentlemen accompanied me generally to the place of lecture and were irrefutable proof of what a farmer might expect in Canada, as two of them, Mr. M. E. Colleaux and Jules Maron went there penniless and are now well-to-do farmers.

The success of my work was felt early in the spring, as in the month of Mareh last 40 Flenish and 20 French Belgians registered in Winnipeg, according to the report of the immigration office there, while a certain number stayed in the province of Quebee, where they secured work with the Belgeo-Canadian Puh Co.

I would like to give a correct return of Belgians leaving for Canada, but it is quite impossible, as many who intend to leave at once have to wait for one reason or another for weeks and sometimes months, and as soon as they think they have all neces-

sary information, they do not, as a rule, communicate any longer with the office, but are looked after by the shipping arouts. I have a solution of the same source and gian emigrants are concerned an orreneous classification is often made; those who speak nothing but French are generally returned as French, while others speaking only German are invariably elassed as Germans. Notwithstanding this I am confident 1901 will prove a very good year for the Belgian emigration.

I am happy to state that in the beginning of this month four or five families will leave for Manitoba to join their friends who left here on March 16 last, and who are so well pleased with the country that they settled at once.

I am also pleased to inform your lorkship that besides the 35 lectures given in the country places, I accepted invitations to lecture on Canada, from "La Société Générale d'Agriculture de Belgique" at Brussels, Les Aneiens Elèves de l'Institut agricelo de l'Etat à Gembloux and l'Institut Commercial du Hainaut à Mons. These three lectures were well attended and the keenest interest was shown in the advantages offered by Ganada, and although the audience at these lectures was not composed of persons who would likely emigrate themselves. I have positive proof that they eaused others to choose Canada as their future home, and that the knowledge of our country amongst the leading elass will greatly facilitate the spreading of this knowledge amongst the people.

By the retirement of Mr. A. Bodard, as agent for France. I have received many inquiries from that country, and in every ease have supplied the writter with the French literature at my disposal, and have given the necessary information as I did for Belgium.

Your obedient servant.

D. TREAU DE CŒLI.

REPORTS OF AGENTS IN EASTERN CANADA.

No. 1.

REPORT OF THE IMMIGRATION AGENT AT ST. JOHN, N.B.

(J. V. LANTALUM.)

St. John, N.B., June 30, 1901.

The Superintendent of Immigration, Ottawa.

Sim,-I have the honour to submit for your information a report of the arrival of passengers at this agency for the year ending June 30, 1901. The total number of arrivals being:

The total hundrer of arrivals being.	
Cabin Steerage	$111 \\ 4,721$
	4,832
Their destination being as follows :	
Cabin, Canada	108 3 903 3,818
and they were divided into sexes as follows :	
Cabin, Canada, males. 50 ""females. 33 ""children 25	
"United States, males	108
Steerage, Canada, males 779 " females	3
United States, males	903 3,818
	4,832

The steamships of the International Line plying between Boston, Portland, Eastport and St. John, landed 12,059 passengers, being principally returning Canadians and tourists.

A great amount of correspondence is received from parties in want of boys and girls to work on farms, and many inquiries are received from the United States from people who wish to settle in New Brunswick.

Statements are annexed hereto, as follows :----

Statement A-Monthly arrival of cabin passengers for Canada.

Statement B-Monthly arrival of cabin passengers for United States.

Statement C-Monthly arrival of steerage passengers for Canada.

Statement D-Monthly arrival of steerage passengers for United States.

Statement E-Showing sexes, occupations and destinations of different nationalities remaining in Canada.

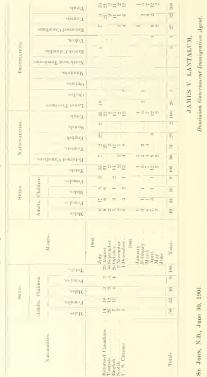
Statement F-Showing sexes and occupations of the different nationalities destined for the United States.

Your obedient servant,

JAMES V. LANTALUM, Dominion Government Immigration Agent.

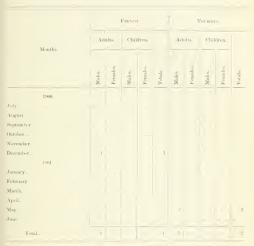
DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A, 1902





íi.



STATEMENT B.—Showing Monthly Arrivals of Cabin Passengers for United States and Sexes of Nationalities.

JAMES V. LANTALUM, Dominium Government Immigration Agent.

St. JOHN, N.B., June 30, 1901.

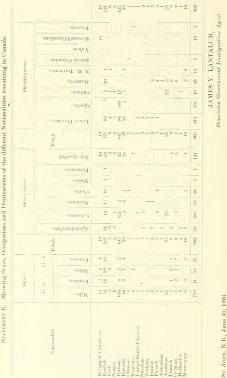
DEPARTMENT OF THE INTERIOR

ii

		.ststoT		30 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	46 82 168 23 22 2	903		
		Tourists.			11100	10-		
	'80'61	Returned Canad			00 m · + ·	0		Ret.
		Yukon.				-		96
8N6		British Columbi		1.181.2.2	11111	-		4
Ĕ		N. W. Territorie				12		030
DESTINATIONS.		Manitoba.		1.1.14		5	M,	ats
LT 8		Ontario.			:01 年 : -	2	Þ	92.4
Ĩ.		Quebec.		9	39 51 315 135	556 49 49 11	JAMES V. LANTALUM	Dominion Government Immigration Agent.
	1	Lower Provinces		22 ···· 23	+ 8 H 8	211	AN	I In
		.slatoT		20 × 1 × 20	46 528 168 23 23	903	1	nme
		Not Classified.		32	+ 61 65 F	141	S V	0061
		Domestics.			1.171 (.1.1.	1 -	E C	5
d		Miners.					17	000
OCUPATIONS.		Clerle.				20	۲.	mm
7dDoc		Mechanics.			9 ⁹ E	22	ç	Dor
ŏ	-	Labourers.		10 m	36 134 134	683		
		Agriculturalists			24	35		
		.stetoT		30.8	82 168 168 168 168 168 168	903		
	7	Other Countries				7		
		Tourists.			1.100	k		
	sueil	Returned Canac		1 1 10	0 H 4	19		
ES8		.sunritsu A.			1.18	25		
C17		.sneiletI			38 53 135 135	24-9		
NΑ	'ustuu	Russian and Fi			° = 5 : : .	x		
NATIONALITIES.		Scandinavians.		111111	:0121 - : ·	5 16 38		
NN		French			1.10 1.11	110		
	itch.	German and Du			1 - C1 ; ;	6		
		Scotch.		** 1 T T * T	::01= :	9		
		Irish.		P1 1 2 2 2 2 2	1.100 1.1	9		
		.dsilgn3		5° ° ° ° ° ° ° ° ° ° °	61 12 17 18 I I I	121		
		.slatoT		37 30 30	46 828 168 28 28 2	903		
	dren	Females.		0) · · · · · · · · · · · · · · · · · · ·		25		
SEXES.	Adults, Children	Males.		8	585 E	58		
20	alts.	Females.		0) m	1 10 10	41	100	
	Ad	Males.		2 T T T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	45 483 150 2	622	i i	ŝ
	Months.		1900.	July August. August. September. Oetober November December	January February March May May	Totals.	Sr. Jours N.R. June 30, 1901	A DUM A GOT LT SUTIAN
				July Sept Octo Dece	Janua Febru March April May - June		ž	

STATEMENT C.-Showing Monthly Steerage Passengers for Canada.

Months.	lee. X	lee. Adults. SE		les. Children. Dales. Children.		,fish.	h.	ch and German.	Name and the state of the state		. uniser M bun dair	*8UV	'suv(a)		ar Countries.		culturalists. urers.		£	10N8		boilissal	74
	lnIC.	E.en	lsIX.		toT	Sug	leiuI		uau J.			Itali		salog		Into'T		-	Clork	Nine	Dome	2.04 C	slatoT
	2 7 2	5 4 1 1 183		122 115	131	10 (ba	*	ž.	01	1 1 1 1 1 1 1 4 4	120	1 1 1 8	16		10 F02	-0 -0 FE		61 52 m	1 218 2	18		IN .	9 F
	403 450 826 303		137 5 137 5 35 2 35 2	82 96 57 79 51 116 25 18 25 18	731 723 1,230 381	n 21 g - c	- 21	x + x +	···· · · · · · · · · · · · · · · · · ·	110 110 111	539 434 622 82	31 395 1286	8242	0/11-0	94 10 1, 1,	731 723 381	9780.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2511 1 2511 1 216 1	8420	- 2-	319 386 386	731 723 1,239 1,239
	2,30	2,305 (89)	9.466	0 424	3,818	<u>2</u>]		4		158 2,	2,097	1 602	142	36 5	570 3,	3,818 1	1,0,1	107 1,031 1,054 131	1 2		11 20		1.425 3.818



		3	or Un	iited	State	38.							
	Adul	ts.	Sexes. Childs					(h et i	· A 110			
Nationalities.	Males.	Females.	Males.	Females.	Totals.	Agreenturalists	Labourers,	Mechanics	Clerks.	Miners	Donestas	Not desited	Totals.
Reglish	29 3 42 44 31 14 7 21 688 30 1,038 2 96 1023 81 5 4 4 3 1 17 4 4 5 1 4 5 1 4 1 15 5 4 9 5 1 4 1 15 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	9 1 15 1 1 479 222 126 6 8 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 281 12 85 3 2 2 1 1 1 1 1 1 1	1	$\begin{array}{c} 42\\ 3\\ 3\\ 300\\ 42\\ 14\\ 8\\ 21\\ 7\\ 36\\ 2,001\\ 2\\ 142\\ 413\\ 8\\ 6\\ 5\\ 5\\ 12\\ 9\\ 6\\ 5\\ 12\\ 6\\ 15\\ 12\\ 6\\ 15\\ 12\\ 6\\ 15\\ 12\\ 6\\ 15\\ 12\\ 6\\ 15\\ 12\\ 6\\ 15\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$	3 1 8 1 4 1 1 1 1 1 1 2 1 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5 2 3 166 6 6 21 5 8 6 25 8 2077 2 26 4 3 57 1 1 1 7 2 4 3 1 02	11 10 8 10 2 1 11 16 8 8 79 54 10 11 12 1 2 1 2 3 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 5 13 2 6 5 1 2 0 8 8 1 2 0 8 8 1 1 2 0 8 8 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	4 1 1 2 1 	1	15 9 3 11 19 6 6 990 42 2955 12 12 12 12 12 12 12 12 12 12 12 12 12	$\begin{array}{c} 42\\ 3\\ 3\\ 50\\ 50\\ 42\\ 14\\ 8\\ 8\\ 14\\ 2,091\\ 142\\ 2,091\\ 142\\ 142\\ 36\\ 6\\ 5\\ 5\\ 1\\ 1\\ 7\\ 9\\ 9\\ 3\\ 8\\ 8\\ 6\\ 6\\ 1\\ 1\\ 1\\ 2\\ 12\\ 6\\ 1\\ 2\\ 2092\\ 2\\ 2092\\ 2\\ 2092\\ 2\\ 10\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$
	2,305	689	-100	424	3,818	10^{a}_{i}	1,031	1,084	131	11	50	1,42%	3,818

STATEMENT F Showing	Sexes and	Occupations	of the	different	Nationalities	destined
	f	or United Sta	ites.			

JAMES V. LANTALUM, Dominion Government Immigration Agent.

ST. JOHN, N.B., June 30, 1901.

No. 2.

REPORT OF THE HALIFAX AGENT.

(F. W. ANNAND.)

HALIFAX, N.S., July 1, 1901.

The Superintendent of Immigration, Ottawa.

Sig.-I have the honour to submit a report of the arrival of passengers at this agency for the year beginning July 1, 1900, and ending June 30, 1901. During the period above mentioned the arrivals have been as follows:-

Cabin		 5,375
Steerage		
	Total	 16,713

These were divided as to destinations:

Cabin-		
Canada	 	 5,350
teerage		
Canada	 	 8,597
United States	 	 2,741

while they were divided as to sexes, as follows :---

Cabin, Canada—	
Males	2,573
Females	2,446
Children	331
Cabin, United States-	
Males	18
Females	7
Children	
Steerage, Canada—	
Males.	4.698
Females	1,681
Children	2,218
Steerage, United States-	
Males	1,754
Females	625
Children	362

In comparison with the corresponding period of the previous year this shows a decrease in cabin of 1,531; a net increase in steerage of 854, or a total decrease of 677.

The increase in the steerage arrivals was divided almost equally between Canada and the United States, there being 442 of an increase for Canada and 412 for the United States.

During this past season both the Allau and Dominion Lines of steamers withdrew their usual winter services from this port and landed all their passengers at Portland instead.

There has also been a falling off in the arrivals of Galicians. Neither have there passed through this agency any of the usual parties of children during the past season, excepting Mr. Middlemore's party for the maritime provinces, and a party of 17 in charge of Miss Foster landed at Sydncy, ex the wreeked ss. *Lusitania*, and booked for St. John.

During the period being reported on we have met and received passengers from 249 steamers, being exactly the same number as for the corresponding period of the previous year.

The health of the immigrants arriving has been exceptionally good, and little or no siekness has been reported.

Through the withdrawal of the quarantine department from our building we have been able to secure the uso of much needed space for handling luggage, and have experienced considerably more satisfaction in our work as a result.

The immigrants have received the best of attention and care while passing through this agency en route to their new Canadian homes.

I would beg again to draw your attention to the large number of excellent settlers passing through this port destined for points in the United States, and to urge that steps be taken for the directing of their attention to Canada while they are with us passing through.

Acting under instructions from the department, I visited the Northwest last August, and shortly after my return made a report thereon.

I beg also to attach hereto the usual statements, as follows :----

Statement A .- Monthly arrivals of cabin passengers for Canada.

Statement B .- Monthly arrivals of cabin passengers for United States.

Statement C .- Monthly arrivals of steerage passengers for Canada.

Statement D .- Monthly arrivals of steerage passengers for United States.

Statement E .- Sexes, occupations and destinations of nationalities for Canada.

Statement F.-Sexes, occupations and destinations of nationalities for United States.

Statement G .- Sexes, nationalities and destinations of steerage by different lines.

Statement H .-- Comparative statement of monthly arrivals, 1899-1900 and 1900-1.

Statement I .-- Comparative statement of nationalities.

Statement J .- Showing arrivals according to ports of departure.

Your obedient servant,

F. W. ANNAND, Dominion Government Immigration Agent.

iı

		.slatoT		1204 258 258 258 258 258 258 276	232 245 271 272 271 272	0532	
		.stsirmoT		850 1958 1958 1958 1958 1958 1958 1958 1958	195 195 195 195	3127	21.
ź	.suej	Returned Canad		251 233 133 233 233 233 233 230 230 230 230 230 2	129 186 186 196 196 196	3 8 2796 2127	F. W. ANNAND, Dominion Government Immigration Agent
10.		British Columbi		. 10 m	. : . = =	x	uo
NA7	.esirtoti	North-west Terr			2102 +		ati
DESTINATIONS,		.ndotinaIA				Ξ	ND
2		.oireanO			- : : : : : : : : : : : : : : : : : : :	10	N.M.
		Gaebee.		20 m m m m m	01	17	N 2
	'8	Lower Province		2255382	848488	378	F. W. ANNAND, Jovernment Immigre
		Totals.		1204 932 525 238 238 238 276	232 165 245 245 245 245 245 271 275	05320	S. V
		stsimoT		628 680 86 86 86 86 86 86 86 86 86 86 86 86 86	E+E838	12 2796 2127 5350	6.7
,	-sasi	Returned Canac		251 223 203 203 200	224 199 199 199	296	nio
NATIONALITIES.		O sofat2 botinU			-	12 2	omi
NAL		Armenians.				-	D
THO:		susilians.				-	
ž		French.			17 to 10	-7	
		Scotch.		101- + + IN	S (107)	83	
		.dsivl			1 2 2 MM 1	+	
		'qsilgad		252 ± 259	2552283 2552	37.5	
		.slatoT		1204 1204 525 238 238 238 238 238	232 245 275 275 271 271	182 5330	
	Lett	Females.		10 10 10 10 10 10 10 10 10 10 10 10 10 1	6009988		4
6	Adults, Children	Males.		31 10 10 10 10 40	+ + + = 2 5	149	
SEXES.	ž	Fernales.		671 424 112 112 90 910	66 140 2300 3300	3446	
	Adu	Males.		1144 154 154 154 153	112 112 112 112 113 113 262 36 36	2573 2446	
						×.	
	Months		1900.	73 July. 73 September 32 September 1 November 1 December 1 more		Totals.	
	1	ł	-	ly. ptec vet vet vet	12 January 16 February 27 March May. May.	T	
				PN02AH	Jan Weiss		
		.shrtoT		373 July. 373 July. 32 Septembe 4 October 1 Decembe 1 Decembe	12 796 127	350	
	5	Females.		S : ** : . :	12 January 81 2796 Pebruary 73 2127 Math May.	82 3	
	Adults. Children	Males.		<u>x</u> +	25	2573 2446 149 182 5350	
SENEY	. · ·	Females.		511	2121	914	1001 00
	dult			14 13 14	10 2 [384,1277 952 1029	KZ 81	8
_	A	Males.				257	
					t nited States citizens Returned Canadians, Tourists		-
	. 3				l nited States citizen Returned Canadians. Tourists		0
	it.				ma		2
					1 Ca	Totals	;
	Vationalition			English. Irish Scotch. French. Italians.	ad S ats	2	N STATE
				English. Drish Scotch. French. Italians.	l nited N Retarmes Tourists		
				SEX.ER	242		3

HALIFAX, N.S., June 30, 1901.

STATEMENT A.-Showing monthly arrivals of Cabin Passengers for Canada and Sexes of Nationalities.

		and	1.00	ACS I	л .	acti	man	cies								
			E	NGU IS	u.		t	'sit Ci	ED S	TATE SB,	8		F	REN	п.	
	Months.	Ada	ilt».	Chile	lren		Adu	Its.	Chil	dren		Ad	alts.	Chil	dren	
	Months:															
		Males	Females.	Maless	Females.	Totals.	Males.	Females.	Males.	Females.	Totals.	Males.	Females.	Males.	Females.	Totals
	1900.															
July August September . October . November .		ï.				1					2					
	1901.	^														
January . February . March		3 1				3 1	1 5	1			25	2 2	1			23
April May June		1	3			4										
	Totals	ī	4			11	7	2			9	4	1			

STATEMENT B. -Showing monthly arrivals of Cabin Passengers for the United States, and Sexes of Nationalities.

F. W. ANNAND, Dominion Government Immigration Agent.

HALIFAX, N.S., June 30, 1901

STATEMENT	CShowing	Monthly	Arrivals of
-----------	----------	---------	-------------

		s		NATIONALITIES.																		
Months.	Adu	lts.	Children.						itch. gians.		grians.	anish.							n. dians.			
	Males.	Females.	Males.	Females.	Totals.	English.	Welsh.	Irish.	Scotch.	German and Dutch.	French and Belgians	Scandinavians.	Russian and Finnish	Hebrew.	Romanians.	ttalians.	Syrians.	Galicians.	Austrian and Hungarian.	Roturned Canadians.	Tourists.	U. S. Citizens.
1900.																						
July	428	315	279	250	1,272	-4:9						4		2	7			1,181	20	3	5	
August	86	35	7	13	141	73			49											6	2	1
September	30	14	3	5	52	47			2		10										3	
October	64	62	9	9	144	97		1	5		23									9	5	4
November	136	82	20	21	259	133	1	2	5	9	12	14	9	20	6	4	1	6	5	18	2	
December	235	131	58	41	465	124		5	9	2	7	10	87	82	15	24	27	1	11	31	7	
1901.																						
January	160	49	16	24	249	117			2	6	2	3	10	32	12	4	39		5	7		3
February .	181	47	8	12	248	67		3	5	4	4	5	11	27	6	88	2		4	15	3	1
March	1,035	91	62	45	1,233	152		13	5	13	-14	14	110	14	3	718	10	1	52	40	24	1
April	1,463	263	196	169	2,091	282	1	16	137	8	12	14	111		77	793	59	403	101	42	2	
May	473	327	254	248	1,302	93		1	9	1	1	1	10		13	5		1,096	37	14		3
June	407	265	255	214	1,141	250		3	5	2	4	2	19	12	4	19	6	773	15	4	11	
Totals	4,698	1,681	1,167	1,051	8,597	1,484	2	++	233	45	119	67	367	189	143	1,655	144	3,461	250	189	64	13

Steerage Passengers for Canada.

				0	CUP.	ATD	ONS.			DESTINATIONS.									
Other Countries.	Totals.	Agriculturalists.	Labourers.	Mechanics.	Clerks and Traders.	Miners.	Female Servants.	Not Classed.	Totals.	Lower Provinces.	Quebec.	Ontario.	Manitoba.	North-west Territories.	British Columbia.	Yukon.	Returned Canadians. Tourists.	Totals	
1	1,272	365	52	3	1		13	\$38	1,272	.50	3	5	986	270			3 5	1,272	
	141	1	19	49	6	6	10	50	141	133							6 2	141	
	52		26		1		6	19	52	47		1		1			3	52	
	144	1	42	7	8		24	62	144	126	1			1	2		9.5	144	
12	259	9	75	- 19	16	3	36	101	259	78	47	39	46	11	18		18 2	259	
23	465	34	89	28	-54	2	26	232	465	123	109	73	84	14	24		31 7	465	
ĩ	249	11	75	22	35	10	16	80	249	85	65	45	24	11	12		7	249	
3	248	16	101	17	28	-4	11	71	248	67	94	52	4	6	7		15 3	248	
19	1,233	92	848	24	21	2	16	230	1,233	234	594	78	201	44	16	2	40.24	1,233	
33	2,091	316	1,034	43	39	6	19	634	2,091	345	691	178	531	283	19		42 2	2,091	
18	1,302	380	49	13	21		9	830	1,802	106	19	17	677	468	1		14	1,302	
12	1,141	274	10	13	9	2	28	715	1,141	237	52	27	264	542	4		4 11	1,141	
128	8,597	1,499	2,510	238	239	35	214	3,862	8,597	1,631	1,675	515	2,767	1,651	103	22	189 64	8,597	

F. W. ANNAND,

Dominion Government Immigration Agent.

HALIFAN, N.S., June 30, 1901.

Returned Canadians. North-west Territories. 146 8948-98 13 13 10^{-38} Lower Provinces. .slatoT Miners. - 21 + - 01 - 00 01 g 0 g -G 2) - + 12 (- 2) 00 01 E + Mechanics. 8122+2409-2-2-295838 31- 0-8800 0888 'slato'T Children. Adults.

SHOWING Sexes, Occupations and Destinations of the Different Nationalities Remaining in Canada.

ii

1-2 EDWARD VII., A. 1902

SESSION		APER No. 25
13 13 13 13	8,597	
	7	. r.
1.15	10	lger
14	-	2
		D,
	103	NN
	1,651	NN.
	292'	F. W. ANNAND, ominion Government Immigration Agent
-	2	F. 7
	10	1000
	1,67	2
14 10	631	nio
13 4 189 64	1 1,	sunc
	8,55	Ď
117	4.688 1.681 1.167 1.661 8.697 1.499 2.510 228 239 35 214 3.862 8.507 1.631 1.675 515 2.767 1.651 103 2 189 64	
	1	
	20	
	8	
63	238	
7 7	510	
	21	
-	665	
M + 12 2 +	-	
13 135 135 135 135 135 135 135 135 135 1	8,550	
	1.2	
	1,00	
	23)	
	1,1	
+ 1-312	681	
XTDEX	- x	-10
8 10 131 46 46	4,659	190
		30,
		10
Inited States Citizens. Dinese Arabs feturned Canadians Fouriets	Totals.	HALIFAX, N.S., June 30, 1901.
United Sta Chinese Arabs Returned Tourists		I ALIF.

			Totals.	$^{22}_{196}$	905 1010 1010 1010 1010 1010 1010 1010 1	2,741	
			Not Classified.	11 21 21 21 21 21 21 21 21 21 21 21 21 2	8088328	833 2	
			Female Servants	~28~88	9228 :5	154	gent
	ź		Miners.				14
	TION	ers.	Clerks and Trad	1011 0011	8882	122 10	tion
	OccUPATIONS.		Mechanics.	10 01 01 01 10	$^{16}_{31}$	122), tigro
	ŏ		Labourers.	28 19 3 9 °	255 223 387 387 14 14 215	1,255	F. W. ANNAND, Dominion Government Immigration Agent
			Agriculturalists.		3288.0-	245	AND
			Totals.	28 29 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	170 170 170 170 181 170 181 170 181 170 181 170 181 170 181 170 181 170	2,741	W. J
			Other Countries	1.15 1.7	201-000	12	E E
1			U. S. Citizens.	01/0 (++ 0 0)	000-20	102 54 45	100
			Greek.		21 102 11 6		min
		.nsins3	auH & asisten &	1 1 1 - 0	7 = 23 53 - x	2 65	Do
			Galicians.	10			
	16		.snailans.			277	
	1		Rounanians		0000.77	42	
	IVAL		Hebrews.	- - - - - - - - -	12 12	906 189 42	
	NATIONALITIES.	.dsim	Russian and Fir	67 118	95 187 86 92 92 92		
	z		Scandinarians.	:01 4.8	25 265 263 263 263 263	534	
			French and Belg	: : [m x x	03 00 03	3	
		.iteh.	German and Du	111197	21 2 2 3 1 5 2 4 5 5 1 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	32	
			Scotch.			-	
			English.	282688	14 59 59 19	356 15 10 88	
			Totals.	$^{22}_{70}$	170 407 416 316 330 330 330 330	2,741	
		nen	Females.	7 = 0 0 5 8	230 231	167	
	4	Children	Males.	8 = + + 8 8	22 23 23 23 23 23 23 23 23 23 23 23 23 2	195	
	SEXES.		Females.	12 25 86 12 8	14 F 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	625	
		Adults.	.səfa10	8 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	78 253 463 18 18 18 18 18	1,754	
			6				1001
		Menthe		July. July. September Outober November December	January Fobruary March, May June	Totals.	1 S.M. 311111

HALFIAX, N.S., June 30, 1901.

STATEMENT F.-Showing Sexes and Occupations of the different Nationalities for United States.

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $;	SEXES			OPPUPATIONS.							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Nationalities.	Adu	lts.	Children			alists.			raders.		vants.	~1	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Males.	Females.	Males.	Females.	Totals.	Agricultur	Labourers.	Mechantes	Clerks & T	Miners.	Female Set	Not classed	Totals.
U. S. citizens 40 7 1 6 54 10 21 3 6 . 14	Sociele. Sociele. Sweethal. Sweethal. Datable. Printible. Politik. Po	$\begin{array}{c} 1\\ 11\\ 11\\ 157\\ 179\\ 228\\ 241\\ 307\\ 5\\ 10\\ 307\\ 10\\ 307\\ 10\\ 307\\ 10\\ 00\\ 265\\ 7\\ 1\\ 1\\ 3\\ 100\\ 2655\\ 7\\ 2\\ 2\\ 1\\ 1\\ 2\\ 17\\ 40\\ 0\end{array}$	$\begin{array}{c} 4\\ 4\\ 4\\ 4\\ 6\\ 1\\ 6\\ 5\\ 5\\ 2\\ 7\\ 1\\ 1\\ 2\\ 2\\ 2\\ 1\\ 1\\ 1\\ 1\\ 0\\ 6\\ 0\\ 1\\ 1\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	4 12 11 5 65 65 8 2 2 2 2 2 2 2 2 2 2 2 6 6 5 5 8 8 9 9 2 2 2 2 6 5 5 8 8 8 9 9 9 2 2 2 6 5 5 5 6 5 8 8 8 8 8 8 8 9 9 9 2 2 6 5 5 5 6 5 8 8 8 8 8 8 8 8 8 8 8 8 8	1 11 16 2 51 13 3 2 4 30 2 1 6	10 15 2267 45 33 7 20 4 83 5 9 2 7 20 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 83 5 9 2 7 2 4 8 9 2 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	$1 \\ 266 \\ 41 \\ 6 \\ 17 \\ 107 \\ 1 \\ 12 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	9 1100 1111 166 1511 1955 3 7 1 222 66 44 1000 264 264 1 17 17 22 66 44 100 100 100 100 100 100 100	1 14 19 4 20 1 1 1 1 8 8 4 1 1 1 8 8 4 1 1 5 0 20 3	1 7 8 2 5 3 3 3 8 8 8 1 1 1 6		1 20 23 3 4 25 1 5 1		356 10 15 2222 967 553 385 385 35 5 7 20 0 42 42 183 80 2 277 16 2 277 16 2 277 1 5 4

F. W. ANNAND,

Dominion Government Immigration Agent.

HALIFAX, N.S., June 30, 1901.

59

1-2 EDWARD VII., A. 1902

ii.

		;	Sexes.			NATION								
Lines	Adt	ilts.					Dutch.	Bolgians.	18.	Hinnish.				
	Males.	Females.	Males.	Females.	Totals.	English.	Welsh.	Scotch.	German and Dutch.	French and	Scandinavians	Russians and	Hebrews.	Roumanians.
Allan Lune	873	349	162	129	1,513	642	1 32	226	19	26	205	203	9	10
Dominion Line	19	13	-4	-1	-40	25	1						2	4
Elder Dempster Line.	3,744	653	353	258	5,008	334	1 26	10	111	69	384	1,046	363	73
Furness Line	84	29	18	18	149	139				1				
Hamburg American Line	1,288	907	789	756	3,740				3			24	4	98
Other Lines	444	355	36	53	888	700		7		47	12			
Totals	6,452	2,306	1,362	1,218	11,338	1,840	2 59	243	133	143	601	1,273	378	185

STATEMENT G .- Showing Sexes, Nationalities and Destina-

ALITIES				Distinations.														
Italians.	Syrians.	Galicians.	Austrians and Hungarians.	Returned Canadians.	Tourists. 1. S. Citizens.	Other Countries.	Totals.	Lower Provinces.	taover rrovinces. Quebec: Ontario, Manitoba.		Manitoba.	Manitoba. North-west Territories.		Yukon.	Returned Canadoms	Tourists.	United States.	Totals
3	2	13	28	52	8 11	23	1.513	467		168	218	85	69		52	8	391	1,513
		6		1		1	40	6	13	14	4		2		1			40
1,925	157	2	180	80	24-39	184	5,008	539	1,577	314	361	66	29	2	80	24	2,016	5,008
			1	-4	3	- 1	149	138	1			1			4	3	2	149
3		3,447	129	3		29	3,740	1	24	19	2,184	1,499	3		3		Ţ	3,740
1	1		-1	-49	29-17	21	888	480							49	29	325	888
1,932	160	3,468	342	189	64 67	259	11,338	1,631	1,675	515	2,767	1,651	103	2	189	64	2.741	11,338

tions of Steerage Passengers via different Lines.

F. W. ANNAND, Dominion Government Immigration Agent.

HALIFAX, N.S., June 30, 1901

11

STATEMENT H .- Comparative Statement of Monthly Arrivals, 1899-1900 and 1900-1901.

Months.	CAN2 1899- 1900.	ADA. 1900- 1901.	ncrease.	Decrease.	STA 1899- 1900.	res. 1900- 1901.	(nerease,	Decrease.	Tor 1899- 1900,	ALS. 1900- 1901.	ncrease.	Decrease.
July. August	343 1,095 1,955 1,666 1,636	1,272 141 52 144 259 465 249 248 1,233 2,091 1,302 1,141 8,597	848 32 1 36 32 179 138 136 442	6 95 	23 37 78 36 199 202 131 312 653 601 39 18 2,329	22 32 70 41 1966 317 170 407 480 616 30 360 2.741		1 5 8 3 173 9	488 386 655	1,332 1,501		7

F. W. ANNAND, Dominion Government Immigration Agent.

HALIFAX, N.S., June 30, 1901.

STATEMENT I.-Comparative Statement of Nationalities, 1899-1900 and 1900-1901.

Nationalities.	1899-1900,	1900-1901.	Increase.	Decrease.
English Welsh Fresh and Dutch Secteh and Dutch French and Poltians Newsin and Frinkin Helsew	$\begin{array}{c} 1,987\\ 16\\ 116\\ 198\\ 221\\ 147\\ 91\\ 503\\ 119\\ 4,004\\ 446\\ 184\\ 123\\ \end{array}$	$\begin{array}{c} 1,484\\ 2\\ 44\\ 233\\ 45\\ 67\\ 119\\ 367\\ 189\\ 3,461\\ 2,333\\ 189\\ 64\end{array}$	35 28 70 1,887 5	503 14 72 176 80 136 543
Totals	8,155	8,597	442	1,583

F. W. ANNAND, Dominion Government Immigration Agent.

HALIFAX, N.S., June 30, 1901.

ii

STATEMENT J .- Showing the number of Arrivals according to Ports of Departure.

	Ports of Embarkation.	Number.
England, Liverpool. "London. Seedland, Ghagow Freland, Londonderry. Germany, Hamburg Sewfoundhand, St. John's. United States, Boston New York St. Pierre West Indies and Bermuda.		6,891 115 181 25 3,740 866 3,985 205 110 295
Totals		16,713

F. W. ANNAND, Dominion Government Immigration Agent.

HALIFAX, N.S., June 30, 1901.

No. 3.

REPORT OF THE QUEBEC AGENT.

(P. DOYLE.)

Dominion Government Immigration Office, Quebec, June 30, 1901.

The Superintendent of Immigration, Ottawa.

Sug.—I have the honour to submit a report of the arrivals of immigrants at this port for the year ended June 30, 1901, with tables showing the numbers and nationalities of the immigrants brought out by each line of steamers, and the general destinations of the steerage passengers.

I take pleasure in stating that the general health of the immigrants was exceptionally good.

Among the arrivals during the year ware a number of families of the better class, who, besides their intelligence and industry, brought with them a considerable amount of capital. I also received visits from several partices who had been deputed to visit this country and collect information concerning it by a number of friends, who, if the report of their acents prove favourable, intend to emirate during the ensuing season.

We may congratulate ourselves on having received a valuable accession to our population in a considerable number of presons of wealth and intelligence, who have sought investment of their capital in Canada, and become permanent settlers among us.

The French, Belgian, Scandinavian and German immigrants, bound for Manitoba and the North-west, were very good specimens of their races, and the continental immigrants make au especially desirable class of settlers. Thrifty and hard-working, they are well adapted to roughing it on arrival, and after a few years' residence, they attain in almost every case an independence which they never could have expected in their native country.

The older provinces offer many advantages to people of moderate means seeking comfortable homesteads. In all of them, improved farms, with good buildings, convenient to markets, churches, schools, &c., can be purchased at a moderate price, offering great advantage to people having children of school age.

The demand for agricultural labourers and female domestic servants continued throughout the whole season very great, and far in excess of the supply. All of these elasses are sure to find employment on arrival.

The whole respectfully submitted.

Your obedient servant, P. DOYLE, Dominion Government Immigration Agent.

The arrivals for the year, compared with those of the same period in 1900, were as follows :--

	198	ю.	19	01.	Increase.	Decreme.
	Cabin.	Steer- age.	Cabin.	Steer- age.	Increase.	Глестедке,
England Treiand Scotland. Russia. France	4,100 31 46 2	$26,611 \\ 327 \\ 981 \\ 2,311 \\ 576$	4,618 31 47	31,356 424 1,043 313	5,263 97 63	 3,311 265
	4,179	$30,806 \\ 4,179$	4,696	33,136 4,696	$5,423 \\ 2,576$	2,576
Grand total		34,985		37,832	2,847	

Showing an increase of 2,847.

The total number of steamships arrived with passengers was 80 ; tonnage, 261,159.

The average passage of the Allan Line was: weekly steamers from Liverpool, $9\frac{1}{2}$ days; Londonderry, 8 days. Glasgow steamers from Glasgow, 12 days. Beaver Line weekly steamers from Liverpool, 11 days; Londonderry, $9\frac{1}{2}$ days; Queenstown, 11 days. Dominion Line weekly steamers from Liverpool, $9\frac{1}{2}$ days. Franco-Canadienne Line from Bordeaux, 16 days.

The number of Cabin and Steerage by each line was as follows :----

	Cabin.	Steerage.	Total.
Allan Line. Weekly steamers from Liverpool	2,405	11,562	13,967
Londonderry Glasgow	24 47	$375 \\ 1,047$	399 1,094
Dominion Line.	2,476	12,984	15,460
Weekly steamers from Liverpool	1,164	3,083	4,247
Beaver Line.			
Weekly steamers from Liverpool	1,049 4 3	16,707 7 42	$17,756 \\ 11 \\ 45$
Franco-Canadienne,	1,056	16,756	17.812
Steaners from Bordeaux		313	313
Grand total.	4,656	33,136	37,832

11

65

ii

The Nationalitie	es of t	he Pa	assengers
------------------	---------	-------	-----------

Allan Linc.	Tourists.	Arabs.	Armenian.	Australian.	Austrian.	Bolgian.	Bukowinian.	Chinese.	Croatian.	Dutch.	Egyptian.	Finnish.	French.	Galician.	German.	Greek.
Weekly Liverpool 9			14		32	16	65	2	7	13	1	1583	73	511	124	6
" Londonderry 1 " Glasgow	$\frac{2}{8}$ 2	8								2						
Dominion Line.	6 24	7 7	14		32	16	65	2	7	15	1	1583	73	511	124	6
Weekly, Liverpool 16	0 1	8 7	26			3		1		2		312	108	114	77	7
Beaver Line.	0 1	8 7	26			3		1		2		312	108	114	77	7
Weekly, Liverpool 85	1 9	6 22	72	3	119	38	47		45	26		363	114	394	214	54
" Londonderry " Queenstown	6	11.														
Franco-Canadienne Line.	8 9	6 22	72	3	119	38	47		45	26		363	114	394	217	54
Bordeaux			2													
			2													
206	4 36	1 36	114	3	151	57	112	3	52	43	1	2258	295	1019	418	67

GRI	EAT I	3rita	.IN.													Sc.	ANDIS	eavi	.N.		itizens.	
English.	Welsh.	Scotch.	Irish.	Hebrew.	Hungarian.	Italian.	Japanese.	Polish.	Portuguese	Roumanian	Russian.	Servian.	Spanish.	Swiss.	Syrian.	Danish.	Icelandic.	Swedish.	Norwegian	Turkish.	United States Citiz	Total.
		_				_																
5671 14	45	362 893	449 362		59	10	6	29 2		25	266			9	9		101 110	677	1654		3	13,967 399 1,094
5685	45	1255	811	330	59	10	6	31	4	25	266				9	132	211	677	1654			15,460
2087	10	18	26	171	4	44		2			48			41	4	31	3	499	115		311	4,249
2087	10	18	26	171	4	-4-4		2			48			-11	4	31	3	499	115		311	4,249
13:30	. 14	28	139 3 39		21	2374		61			331	23	14	4	73	76	751	507	249	2	426 3	17,754 11 45
1331	14			8833	21	2374		61			331	23	14	4	73	76	751	507	249	2	429	17,810
						9									277		-			05		313
						9									277							313
9103	69	1301	1018	9334	84	24:37	6	94	4	25	645	23	14	54	363	239	965	1683	2018			37,832

brought out by each Line were as follows :---

1-2 EDWARD VIL, A. 1902

The following tables give the number of male and female adults, and the sexes of children and infants of each nationality arrived in 1901.

	Ad	16.0	Cha	dren.		
	Ad	nts.	Chil	dren.		
						-
					Infants.	Total.
	Male.	Female.	Male.	Female.		
Returned Canadians	1.161	705	85	83	30	2,064
Tourists.	208	136	4	10	3	361
Immigrants						
Arabs	22	6	3	5		36
Armenians	60	28	10	9	7	114
Australians	1	1	1			3
Austrian	119	16	10	6		151
Belgian	- 28	17	4	6	2	57
Bukowinian.	42	25	23	17	5	112
Chinese	2	1	20		5	3
Croatian	52	1				52
Dutch	19	9	6	7	2	43
Egyptian	15	9	0	1	2	13
Finnish	1,296	641	135	132	54	2.258
French	1,296	78	155	132		2,258
Galician.	327	247	178	176	91	1.019
Germans	193	106	56	42	21	
	193	106	3	42 2	21	418
Greek			867			67
Great Britain-English	4,429	2,908		764	135	9,103
weisn	23	29	6	10	1	69
	785	340	95	66	15	1,301
	490	335	96	78	19	1,018
Hebrew	5,064	1,919	1,078	957	316	9,334
Hungarian	20	20	23	18	3	84
Italian	2,290	72	41	27	7	2,437
Japanese	4		2			6
Polish	35	26	16	11	6	94
Portuguese	4					4
Roumanian	10	5	6	3	1	25
Russian	200	166	124	107	-48	645
Servian	6	8	4	4	1	23
Spanish	14					14
Swiss	26	17	6	4	1	54
Syrian	215	71	50	13	14	363
Scandinavian-Danish	126	61	24	20	8	239
" Icelanders	317	315	168	100	65	965
swearsn	893	532	116	120	22	1,683
" Norwegian	1,112	582	149	119	56	2,018
Turkish	13	1	12	1		27
United States Citizens	659	487	60	58	8	1,272
Totals	20,518	9,915	3,470	2,987	942	37,832

The trades and callings of the male steerage passengers, as per passenger lists, were as follows :---

Agriculturists	2,116
General labourers 1	0,590
Mechanics	3,817
Clerks and traders	610
Miners	897
1	17,530

68

ii

TABLE showing the number of immigrants landed at Quebec, assisted to emigrate by various societies, during the year ending June 30, 1901.

	ADU	LTS.	Сн	ILD- IN.	INFA	NTS.		
By Whom Sent Out,	Male.	Female.	Male.	Female.	Male.	Female.	Total.	Destinations.
Dr. Barnardo, London The Canadian Catholic Emigration Society, London, Rev. E. St. John, Secretary			316 89	296 33				Toronto, Peterboro' aud Russell, Man. Montreal and Ottawa.
United British Women's Emigration Asso- ciation, London, Hon, Mrs. Joyce Liverpool Catholic Children's Protection	3	55	3		1			General.
Society Home of Industry, Bethnal Green Road, London, Miss Macpherson,			21 22					Montreal. Stratford.
Church of England Waifs and Strays Asso- ciation, London. Bristol Emigration Society. Kibble Farm School, Paisley, Scotland			29	10 2				Sherbrooke and Niagara. St. John, N.B.
Working Boys' Home of Great George Street, Liverpool. Philanthropic Society Farm School, Redhill,			3					Lennoxville, P.Q.
Surrey. Children's Aid Society, 32 Charing Cross,								Wapella, N.W.T. Winnipeg.
London Sheltering Home, Myrtle Street, Liverpool.			1				1	Knowlton.
	3	55	521	383	1		963	

STATEMENT of the number of Immigrants arrived at the port of Quebec, distinguishing the countries from whence they sailed, up to June 30, 1900 and 1901.

	1900.	1901.
England- Liverpool.	29,557	35,970
Manchester. Bristol. Londonderry. Queenstown.	1,130 358	410 45
Scolland	1,027	1,094 313
Batoum	2,311 34,985	37,832

LENT	OF	THE	INTERIOR				11
			1-2	EDWARD	VII.,	Α.	1902

						-	2 2011	1
		Greek.		60 7 89 16 1 16 1			19 25 56 6 60 12	
		Germans.						
		Galicians		170 23 17 15			357 357	
		.deinni3		437 207 200 200 79			116 473 594	
÷		French.	-	26922			:525	
118		Dateh.		00 01 01 01				
ALT.		Croatian.		1	-			
ON.		Chinese.		C1	1		1160 C	
NATIONALITIES.	sue	Bukowin		1 2 2 2 2			: 88	
N		Belgians.		2-29%	-		t Gi	
	1	Austrians		11 50			:229	
		eilerten A.		20 : : :			1111	
		Armenian		22222°			12 []	
		sdrik		- := 0 -				
		Tourists.		15 14 11 12 12 12			3-10	
	SUPURING			1-1-25-1-9				
	Canadians.	barrentaß		11222			- 66 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	
		.statoT		6,773 117 5,498 247 4,433 188 3,115 147 3,115 147 1,311 40			1,385 5,176 5,4451	
	.89383	2 bətinU		3,444 2,631 2,631 1,384 1,384 1,384 661			2,339 2,437	
		Lukon.	-					
	.sidmulo	British C		22233			:281	
X	st Territories.			122 88 100 81 64 160 19 23			$\begin{array}{c} 22 & 18 \\ 201 & 106 \\ 272 & 111 \end{array}$	
DESTINATIONS.		Manitoba		1,189 308 1149 283 283 283 178 178			102 2 821 90 121 27	
DESTI		Ontario.		734 1 449 70 70	-		101 101	
		ineta0						
		Quebec.		978 1,583 934 543 319			458 1,024 734	
	.seonivo:	Lower P		2222-			24 85	
		Tourists.		279 : :			101-35	
	.snaibans)	Returned		112849			828	
				23221			229	
	.stuo8 to rada.	Total Nur		6,773 117 5,498 247 4,433 188 3,115 147 1,311 40			$ \begin{array}{c} 1,385 \\ 5,176 \\ 5,445 \\ 5,445 \\ \end{array} $	
	ren.	Female.		781 501 352 352 147			69 704 623	
4	Children	Male.		971 1558 171 171	-		88 441 633	
SEXES		Lemale.		1,537 1,440 1,289 879 363			196 915 234	
	Adults.			3,484 1 2,2960 1 2,2266 1 1,481 1 630			1,040 3,413 2,955 1	
		.9[nM]						
.Le	verT nessO sis	bəvirnA		6,773 5,498 4,453 3,115 1,311	-		1,385 5,176 5,445	
	Months.		.0061	July. Angust. Sept. Nov	1901.	February .	April April May.	

STEERAGE PASSENGERS.

11

Reported	For United States-Not Elsewhere.	3,444 2,631 2,373 1,384 1,384	525 2,339 2,339	
	Where.	3,325 2,867 1,731 650		
	Полимание Култание Култание Солимание Соли Вариа Конски <	308 1,555 2,296 13,783		
	Female Servants.	200 200 200 200 200 200 200 200 200 200	60 272 282 282 1,823	GE.
8N0	Miners	15 15 15 15 15 15 15 15 15 15 15 15 15 1	20 20 397	P. DOYLE.
HAW.	Clerks and Traders.	1117 1117 1117 1117 1117 1117 1117 111	810 S 12	ă
10.00	Mechanics.	1,016 612 303 156	144 17 23 357 16 28 389 81 29 389 81 29	d
	General Labourers.	1,5985 1,346 744 325	49 2,587 358 2,587 471 1,904 2,116 10,590	
	Agriculturists.			
	IntoT	6,773 864,7 864,8 81115 1,311	142 2 1,385 514 2 45 5,176 452 38 5,445 2,018 27 955 33,136	
		74 350 350 192 192	355 38 45 °	
	.dsidnuT		01 : 57	
	Zorwegians.			
	Swedish.		163 208 277 1,683	
	Icelandic.	201 258 258 267	17 1 64 37 204	
		12002	11 11 230 230	
	.ssiwB			
.15				
9			11 12	
IES.		201 × 202	45 23	
117		1		
ONA	Polish.	223	51 81 81	
1.LV				
~	Japanese.			
	Italian.		298 940 388 2,437	
	Hungarian	2-29-	01 Z v	
	Hebrew.		5 G	
			69 208 208 208 208	
	Scotch.			
	ILGI8P. B	φ <u>Ω</u> .	23.22	
		1, 660 842 993 189 189	577 1 955 25 955 25 1,008 21 1,008 21	
	Egyptians.			
	Months.	1960. July Sopt October Nov Dec	January. Fobrua'y March April . June Totals.	

11

STEERAGE PASSENGERS - Concluded.

Ë.
5
<i>Ф</i>
-
~
ĕ.
ě
8
6
8
-8
-D
8
÷
DS.
4
ont
8
Ħ
Φ
2
5
ŝ.
حب
0
Â.
+
or
2
c.y
ē.
Ð.
- 00
4
<i>.</i>
ĕ
be
1ebe
Quebeo
Quebe
tt Quebe
at Quebec
es at Quebec
res at Quebe
cures at Quebec
rtures at Quebeo
artures at Quebeo
partures at Quebe
bepartures at Quebe
Departures at Quebec
bepartures at Quebe
Arrivals and Departures at Quebe
bepartures at Quebe
Arrivals and Departures at Quebe
Arrivals and Departures at Quebe
Arrivals and Departures at Quebe
Arrivals and Departures at Quebe
EMENT of Arrivals and Departures at Quebe
TEMENT of Arrivals and Departures at Quebe
TEMENT of Arrivals and Departures at Quebe
EMENT of Arrivals and Departures at Quebe

					124922		: : [2] 71	
			French.					186
			.dsinni9		\$\$ \$\$ \$\$ \$\$ \$ \$ \$		13 70 70	237
			Egyptian.		- N			
			Dutch.				10 10	13
	-		Croatian.		1941.14		: .% ;	2 51
	18.8		Chinese.		- 01			
	NATIONALITIES.		Bulcowinian.		27°- : :		88	112
	NO.		Belgian.		IT : :** :		0-1-	66 1
	ATA		Austrians.		671 1:		- 77 X	116
	N						<u> </u>	8
			Armenians.					2
			Arabs.					33.1
			Tourists.		248		041-8	134
			atainteo T				1.1	
1.	•	.snaft	Returned Canad		117 247 188 188 147		26 75 122	5965
					858858		860 2,837 3,008	27
			LetoT		3,329 2,867 2,060 1,731 650		. ei ei	17,342
			X ngour		10.111			-
			British Columb		88888		1985	803
		:	North-west Territ		22 8 8 5 F		$222 \\ 272 $	888
	×.				308 308 149 178 283		162 821 921	
	ION		fotimel.C.		18-01		. = ∞ क	4,011
	DESTINATIONS.				7024		164	10
	178		.oineatro.		6446		202	3,696
	DE				× 22 ± 22 m		3.5.5	27
			Quebec.		978 934 543 319 319		45×	6,573
					2582-		2 7 2 X	
		.8	Lower Province					273
			Tourists.		279		S -1 10	22
					117 247 147 147			962
		l .snaif	Returned Canac				· · •	
		Serio a r	DOMEST MAGY		3,329 2,847 2,660 1,731 650		800 2,837 3,008	342
		stan S h	Total Number o		જે એ એ ને		ೇಣ್	11
					138 166 75		389	1,770 17,342
		ten	Female.		4 X H V		1 04.00	1.2
		Children			88288		44	22
	Ŕ	Ð	.9[s]f		12 01 01		0.00	2,042
	SEXES.				678 672 672 672 672 672 172		116	
	x	ź	Female.		262421		11 69 19	3,815
		Adults.			001010.07.07		0140 00	
		Ŷ	Male.		682 110 110 211 211 211 211 211 211 211 21		662 ,805 ,613	9,715
	7	and Trave	Arrived via Oce		3,329 2,867 2,060 1,731 650		860 2,837 3,008	17,342
	-				05 01 01 -		ei mi	17
			(
		Months		1900.		10		×
		1		19	er.	1901	AL AL	Totals
					July August September October November December		fanuary February March April May June	1
					Je See No		A MAN	

1-2 EDWARD VII., A. 1902

STEERAGE PASSENGERS REMAINING IN CANADA-Continued.

SESSIONAL PAPER No. 25

		Totals.	3,820 2,867 2,867 1,731 1,731	860) 3,008 3,008
			005 970 891	194 840 901 2,837 1,372 3,008
		Yot Classified.		
1	-	Female Servant	85387	20 1138 1113
		Minerse	5181 21 2 11	*88
OCCUPACIONS.	5420	Clerks and Trad	88888	510 69
5		Mechanics	362 559 511 511 511	225
	74	General Labour	529 529 529	493 1,278 821
		Agriculturists.	400 203 1113 68	-58 58 11 11 12 12 12 12 12 12 12 12 12 12 12
		U.S. Citizens.		
		Turkish.		21
	B11.	Norwegian.	2244.24	38.7
	Scandinavian,	.dsibow8	× 5.8.8.2	+ ²⁹ ²⁹
	andi	Icelandic.	\$ \$ \$ 5 5 °	104
	ž	Danish.	00 + +	:.*2*
		Syrian.	216	28-1· · ·
		Services	9 : 7	φ.
		.dsinaq8		- 12 -
		Servian.	44 35 23 18	
		Russian.	Pri - Pri -	51 883 1333
Con		Roumanian.	0 (Q)))) (Q)) (Q)) (Q) (Q) (Q)) (Q)) (Q) (Q) (Q)) (Q) (Q)) (Q) (Q) (Q) (Q)) (Q)) (Q	1222
ļ.		Polish.	· · · · · · · · ·	
183		Japanese.	10118	298
NATIONALITIESCon.		.naila11	101	-8128
TIO		uningan H	2-28-	- 71
NN		Hebrew.	118 117 117 117	357
		Irish.	255 2011 2011	160
	Great Britain.	Scotch.	211 211 232 233	128
	11	Welsh.		-212
	Gree	English.	953 721 12 706 838 144	350 1 842 12 920 17
	1	Greek.	10 - 101 - 100 - 1	- t+ 0
		German.	646.08	1228
		Galician.	167 15 15 15	320
		ž		
		Months.	July. July. August September October. November December	January February March May May June

Dominion Government Immigration Agent.

P. DOYLE,

1-2 EDWARD VII., A. 1902

STEERAGE PASSENGERS DESTINED

STATEMENT of Arrivals and Departures at Quebec Agency,

	vel.		Sex	ES.													_	_			N	ATION
Months.	ean Tra	Adu	lts.	lts. Children		of Souls												Gre	at 1	Brit	ain.	
	Arrived via Ocean Travel.	Male.	Female.	Male.	Female.	Total Number of Souls.	Arabs.	Armenian.	Austrians.	Belgians.	Croatians.	Dutch.	French.	Finnish.	Gabcian.	Germans.	Greek.	English.	Welsh.	Scotch.	Irish.	Hebrew.
1900. July September October November December 1901.	3444 2631 2373 1384 661	1826 1314 1111 682 312	859 768 694 435 191	416 276 287 130 86	343 273 281 137 72	3444 2631 2373 1384 661	1	3 2 28 33 17		10 15	1	21	335 : : :	389 184 133 177 70	2	11 49 23 38 14	· . 4	105 141 201 158 47		5 6 16 3 4	21 8 44 14 5	2096 1262 1264 321 267
January . February. March. April. June. June.	525 2339 2437 15794	1342		39 183 272 1689	28 186 234 1554	525 2339 2437 15794	2	5 7 95	22			 12 12 28	 14	103 421 524 2001		24 24 32	6 3	71	313	9	25 26 37 180	18 733 896 6857

11

FOR THE UNITED STATES.

for the twelve months ending June 30, 1901.

ALITIES.					OCCUPATIONS,	
		Scandinavians.	Citizens.	kts. urrers.	aders. nts.	
Hungarian. Italian. Polish.	Koumannan. Rossian. Spanish. Syrian. Swias. Portuguese.	Danish, Icelandic, Swedish, Norwegian,	United States Citizens, Totals.	Agriculturalists. General Labourers.	Mechanics. Clerks and Traders Miners. Female Servants.	Not Classified. Totals,
$\begin{array}{cccc} 79 & 7 1\\ & 27 & 10\\ 5 & 25 & 8\\ & 60\\ & 63 & 6\end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{rrrr} 74 & 3444 \\ 350 & 2631 \\ 208 & 2278 \\ 192 & 1384 \\ 46 & 661 \end{array}$	$\begin{array}{cccc} 102 & 1221 \\ 101 & 691 \\ 70 & 608 \\ 48 & 401 \\ 12 & 188 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccc} 0 & 1177 & 2631 \\ 5 & 1126 & 2373 \\ 4 & 558 & 1384 \end{array}$
228 10 68 21	$ \frac{7}{2} \frac{1}{2} \frac{1}{4} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 2 & 525 \\ 45 & 2339 \\ 38 & 2437 \end{array}$	$\begin{array}{ccc} 11 & 292 \\ 70 & 1259 \\ 55 & 1083 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	654 2339
5 550 62 1	6 70 2 83 34 4	209 70. 1478 1847	955 15794	469 5743	2076 179 55 102	6254 15794

P. DOYLE, Dominion Government Immigration Agent.

						1.0		/010	
		.[atoT		$ \begin{array}{c} 518 \\ 1,057 \\ 1,121 \\ 660 \\ 143 \\ 143 \\ 143 \\ \end{array} $			100 283 421	4,303	
OccUPATIONS.		Not classified.		518 1,057 1,121 660 143			100 283 121	4,303	P. DOYLE, Dominion Government Immination Agent
LIC	'8	Female Servant							8
Vd	'8.10	Clerks and Trac							tio
B.		Mechanics.							0.0
č	'8.10	General Labour							
		Agriculturists.							
		Total.		518 1,121 660 143			100 283 121	4,303	P. DOYLE
		Irish.		26. 13			1.1.7	123	X i
	Great Britain.	Scotch.		36 12 47 13 50 26				134	P. 1
		Welsh.		17 11 11					3
NATIONALITIES.	Great	.dsilgaA		23 898 3986 3986			173 209	2,676	ani an
17		German.		1 1 1 7 1 1				t-	
ON.		E rench.		1-1-0-01 01				2.95	6
1L		Datch.						01	~
2		Chinese.						-	
		Tourists.		16 13 13 13 13 13			81 85	227	
				139 243 250 250 66			888	1,102	
	.susit	Returned Cana						11	
				20000					
		TetoT.		518 1,057 1,121 660 143			100 1283 121	4,303	
		L-+off						+	
		.nkon.							
	187.6	British Columb		0 (x t) + :			9 + 10	1.00	
		Yorth-west Ter		0			- 51 - 7	1 22	
		Manitoba.		0.00 01-			σωx	31.8	
.8NG		.ornstrio.		12 4 2 5 2				161 3	
DESTINATIONS.		Quebec.		438 438 438 438 438 438 438 438 438 438			49 152 186	2,632	
2	'83	Lower Province		N 2 0 2 : :			00.00	69	
-		Tourists.		16 2 60 24 15 13 2			:67.55	1122	
	.ensib	Returned Cana		138 138 11 128 138			8.8.8	1,102	
	.sluo2 lo	Total Number		518 1,057 1,121 660 143			100 283 283	4,303	
	Child. ren.	Females.		×\$48+			5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	143	
ś	Gh	Males.		×244			222	178	
SEXES.	ilts.	Females.		201 566 316 586			38 113 203	2,118 1,864	
	Adults.	Males.		301 5590 74 74			45 150 191		
'le	overT nev	O aiv bevirtA		$ \begin{array}{c} 1,057 \\ 1,121 \\ 660 \\ 143 \\ 143 \end{array} $			100 283 121	4,303	
	Months.		1900.	July. August September. October November.	1901.	January February	April. May. June.		

STATEMENT of Arrivals and Departures at Quebec Agency for the twelve months ending June 30, 1901. CABIN PASSENGERS REMAINING IN CANADA.

1-2 EDWARD VII., A. 1902

CABIN PASSENGERS FOR UNITED STATES.

STATEMENT of Arrivals and Departures at Quebec Agency, for the twelve months ending June 30, 1901.

			Se	CES.				NATI	ONAL	ITIES			0	ecup.	ATIOS	i.s.,		
Months		Adu	ilts.	Chil	dren	of Souls.	Grea	t Bri	tain.	Citizens.			Ters.		iders-	tics.		
Months.	ALLIVED VIA UNA	Males.	Females.	Males.	Females.	Total Number of	English.	Scotch.	Irish.	United States Citizens	Total.	Agriculturists.	General Labourers	Mechanics.	Clerks and Traders	Female Domestics.	Not classified.	1 otal.
1900.																		
August	49 09 82 34 16	$23 \\ 87 \\ 38 \\ 17 \\ 6 \\ .$	18 114 41 13 10	04999	3 4 1 2	49 209 82 84 16	14 34 19 6 3			$ \begin{array}{r} 35 \\ 175 \\ 63 \\ 28 \\ 13 \\ \dots \end{array} $	49 209 82 34 16						49 209 82 34 16	209 82 34 16
1901.																		
January February March	1		. :			···· ··· 1											·i	
May June.	2	<u></u> 1	i			2				2	2						2	2
3	93	172	198	13	10	393	76			317	393						393	393

P. DOYLE. Dominion Government Immigration Agent.

1-2 EDWARD VII., A. 1902

No. 4.

REPORT OF THE MONTREAL AGENT.

(John Hoolahan.)

DOMINION GOVERNMENT IMMIGRATION AGENCY, MONTREAL, June 30, 1901.

The Superintendent of Immigration, Ottawa.

SIR,—I have the honour to submit the report of this agency for the financial year ending June 30, 1901, and attached thereto statistical information covering this period.

Statement A shows the number of immigrant arrivals at Montreal, per ocean travel, via the United States ports of New York, Boston and Portland, their nationalities, occupations and destinations.

Statement B shows the number of immigrant arrivals at Montreal from the United States, their nationalities, occupations and destinations.

Statement C shows the number of juvenile immigrant arrivals at Montreal and their destinations, person in charge, and by whom sent.

Statement D shows the number of applications for help received at this agency.

Statement E gives the retail prices of food, fuel, &c., for the working classes in Montreal.

Statement F gives the retail prices of clothing, &c., for the working classes in Montreal.

Statement G gives the average rate of wages for mechanics, labourers and domestic servants.

The return at this agency of the number of immigrant arrivals at Montreal from the United States will be found in the statements A and B, with full particulars.

Those steerage passengers who arrive from Europe by the various steamships at the ports of Quebec, Halifax, N.S., and St. John, N.B., and who are compelled to disembark there are accounted for at these ports, being transferred to the different railways there.

The first and second-class passengers, who arrive from Europe, as a general rule during the season of the St. Lawrence river navigation, remain on board until the steamships reach Montreal and disembark here.

This agency has followed the system of checking immigrant arrivals and departures as usual. It is applied only to those immigrants that come from Europe via ports in the United States and bound for Canadian western points. Our officers go through the trains and take down name, sex, age, occupation, nationality, name of steamer travelled

on, and destination of the newly arrived immigrant. A monthly list of the names and other particulars thus obtained is prepared, and in due course forwarded to the department at Ottawa.

I also notify the Commissioner of Immigration at Winnipeg, and the department at Ottawa, by wire, of the number and nationality of the immigrants going forward, as well as the time of departure of trains bearing them from Montreal.

The total number of immigrant arrivals at Montreal, per occan travel, via ports of New York, Boston and Portland, as per Statement A, during the financial year ending June 30, 1901, was	5,768
The total number of immigrant arrivals at Montreal from the United States, as per Statement B, during the financial year ending June 30, 1901, was.	2,364
Grand total	8,132
The total number of immigrant arrivals at Montreal from United States, and per ocean travel via ports in United States, during the corre- sponding twelve months of the years 1899 and 1900, was	4,162
. An increase of	3,970

During the twelve months referred to, I have issued to immigrants going to Manitoba, the North-west Territories and British Columbia, ninety-six certificates.

The plan of changing these certificates for immigrant tickets, as issued by the Canadian Pacific Railway officials, works more satisfactorily every year. The certificates enable intending settlers to convey their families to their final destination at a greatly reduced cost.

Large quantities of pamphlets and maps issued by the department have been distributed, not only among the immigrants for Canada, but to those going to the United States; and have also been mailed on application to prospective emigrants all over the world.

There has been a good local demand for unskilled labour. In the city and district of Montreal, general labourers have been in great request, owing more particularly to the works in progress in connection with the local harbour improvements, the shipping, the new railway constructions, the street railway repairs and extension, the building trade, &c, with an increase in the rate of wages as compared with last year, which is due to the remarkable condition of prosperity that prevails throughout the Dominion.

Moreover, Montreal has become the distributing point where all large employers of labour seek to secure men. The result is, that every man able and willing to work can obtain it at once at fair wages during the open season.

The demand for agricultural labourers is constantly increasing, and any ablebodied male or female immigrant possessing a knowledge of farm work or even a desire to learn it, can always find employment. Single young men are eagerly sought for, and also a man and his wife who are accustomed to farm life, are in good demand.

There is a good demand for gardeners, provided they reach here in the spring.

Employment for grooms and coachmen continues good.

There is a constantly growing demand for competent female domestic servants. No female immigrant, possessing certificates as to competency and character, need have any fear of not finding a suitable position with remunerative wages in Montreal

1-2 EDWARD VII., A. 1902

and the district of Montreal. Such immigrants can find employment no matter at what season of the year-they may arrive.

The demand for domestic servants has been increasing year by year. The large commercial and industrial establishments, stores and offices open a field for Canadian young women which in many cases they prefer to housework.

Montreal and district are at present fully supplied with all the mechanics, printers, book-keepers, clerks, &c., that are required.

I am pleased to be able to state that the immigrants arriving here during the fiscal year covered by this report, have been a suitable and desirable class for Canada. My statement is not only based on personal observation, but is corroborated by the leading clicials of the different national and benevlent societies of the city of Montreal.

The large majority of the new arrivals were of the agricultural class and went forward to Manitoba, North-west Territories and British Columbia, the remainder being distributed throughout Ontario and Quebee.

The opinions of the officials of the various national and benevolent societies, are as follows :---

Mr. Frederick W. Richards, Acting Chairman of the Charitable Committee of the St. George's Society, being interviewed on the subject of immigration, said :

⁴The number of immigrants admitted into the St. George's Home during the twelve months ending June 30, 1901, was about the same as for the corresponding period of 1899 and 1900, and the expenditure on immigration account has been about a similar sum as for the said period of twelve months.

⁴It is no doubt owing to the strict scrutiny of the Canadian emigration agents in England and Wales that Canada has been able to secure such a desirable class of immigrants. The excellent work of these agents is to be commended as they have carefully prevented undesirable persons from coming to Canada.⁴

Mr. James Wright, Chairman of the Charitable Committee of the St. Andrew's Sceiety, said:

⁴ The number of immigrants admitted into the St. Andrew's Home was not a large cone, and the expenditure on immigration account was small. Those who came to the home received a coxial welcome and good treatment during their sojourn there. The had some means and were well able to look after their own interests. Employment was secured for those who required it, and we paid the railway fares of others going to work on farms in the country districts.⁴

Mr. B. Campbell, Chairman of the Charitable Committee of the St. Patrick's Society, said:

^c There was only a small amount of money spent to help the immigrants this year. We paid the railway farces of some going to work on farms in the vicinity of the city, and the board and lodging of a few persons whilst waiting for work. Employment was secured for others. As to the class of immigrants the society has had dealings with, I may say that they were undoubtedly a suitable class for Canada. They anoge

ently were healthy, robust, self-reliaut and industrious people who deelared their intention of making Canada their permanent home. The Canadian government emigration agents in Ireland have done admirable work in their selection of suitable immigrants for the Dominion.'

Mr. William Seale, Chairman of the Charitable Committee of the Irish Protestant Benevolent Society, said:

⁴ The immigrants with whom the society has had dealings were a suitable class for Canada. They were mostly mechanics and clerks, seeking employment here, which was secured for them by the members of the committee. The majority of the immigrants had sufficient funds to pay for their maintenance until such time as they found employment. They were an industrious, self-reliant people, and would make a valuable addition to the population of the eity of Montreal.

'I think Canada has received a better class of immigrant settlers from the British Isles during the past few years than was the ease formerly.'

Mr. Alberto Dini, President of the Italian Benevolent Society, said:

⁴There were large numbers of Italian immigrant arrivals in Montreal during the early months of the current year, 1901. They were mostly workmen of the labouring elass, being healthy and industrious. They came here too early in the year when outdoor work was scarce, consequently there was little or no demand for their services, but as the senson advanced the demand for the men increased until finally the supply beame exhausted. At the present time there are none of these immigrants unemployed.

⁴ The local Italian Benevolent Society has done good work in the matter of looking after the interests and welfare of these people during the time of their involuntary idleness, providing board and lodging for them until they secured employment. Not one of them became a public charge.⁴

Mr. James Wilson, Superintendent of the Protestant House of Industry and Refuge, in answer to the questions put to him, replied as follows :--

⁴ Our records for the twelve months ending June 30, 1901, show that there has not been one application made by an immigrant for admission to the house ; therefore, there has been no money spent on account of immigration. This is good proof that pauper immigration is a thing of the past, and that the Dominion government emigration agents in the British Isles have been successful in debarring the pauper element from emigrating to Canada.⁴

Mr. Antoine Berardo, President of the Italian National Society, of Montreal, said :---

⁴ The emigrant arrivals of the current year were a superior elass of workmen. They were all able-badied men, in the prime of life, able and willing to work. Employment has been secured for all of them. There are none without work at the present time, and they receive a firir wage. A paragraph was published in one of the city papers, stating there was a number of Italian families in the eity in distress. This statement is not true. There are none of the Italian colony in want of the necesaries of life. As a rule they are a hard-working, economical, self-reliant people, who require no assistance from any one.³

He is thankful there is sufficient work for everybody able and willing to do it. The labour market is booming, and his compatriots have taken full advantage of the good times at present existing throughout the Dominion. All are perfectly contented with the present situation of affairs in this country.

25—ii—6

Mr. A. Dubonlay, Secretary of L'Union Nationale Française de Montréal, Société de Bienfaisance, Maison de Refuge, fondée le 20 octobre, 1886, said :---

⁴ The number of French and Belgian immigrants admitted in the society's home. 42 Galicus xtered, during the year ending June 20, 1901, was about the same as the preceding year, and the expenses for immigration work would also be about a similar amount as in the year ending June 20, 1900. The large majority of the immigrants went direct to their destinations in Manitoba and the North-west Territories, whils' others remained in Montreal, having seenred employment in the eity and vicinity. The immigrants were a desirable class for Canada, having sufficient means to pay their living and travelling expenses. They stayed at the home only a short time before going to their destinations.²

Mr. George Hassan, who has a Syrian boarding house at No. 1441 Notro Dame street, Montreal, 'Usetaurout of Beyrout', said : That the majority of the twenty-one Syrian immigrants, who arrived here last summer per the steamship *Louisiana*, went to his house, the rest to the homes of their fellow-ecountrymen in this city. They were a snitable lass for this country, being young, strong and healthy. The men secured employment in Montreal as traders and laborners, and the women as domestie servants.

He adds : They are at the present time respectable eitizens of Montreal, which they have selected as their permanent home.

In the course of the year a large number of French and English-speaking Canadians, who have been living in the United States, have returned to Canada to make it their permanent home. Many went to Manitoba and the North-west Territories, others to the Lake St. John district, and other parts of this province.

I have good reason to believe that, within the next twelve months, the number of repatriated French and English-speaking Canadians will reach many thousands.

The medical and general staffs of the various eity hospitals, the Montreal General, Royal Victoria, Notre Dame, Hotel Dieu, and Western, have shown their usual spirit of kindness in the treatment of the immigrants committed to their earc. In every instance where their services were required, the managements of the hospitals have always nobly and quickly responded.

During the eourse of the year the office of the agency at Montreal received official visits from Mr. James A. Smart, Deputy Minister of the Interior, and from yourself.

I have great pleasure to be able to state that during the whole year the general health of the immigrants arriving here has been exceptionally good. The eases in Montreal ealling for medical treatment and hespital accommodation were very few, and were of a mild form of indisposition, and the patients were in due conrse discharged as cured.

There was not a solitary case of contagious disease among the new arrivals. The medical staff at the Grosse Isle station are to be congratulated upon the strict supervision of the immigrants, which led to such satisfactory results.

During the year much correspondence has been answered. The questions dealt with mostly referred to the value of farm lands in the different provinces, inquiries as to rate of wages, steamship and railway fares, &o. All inquiries were answered thoroughly, and every information riven it was possible to give.

I would desire, through the department, to express appreciation of the kindness and attention that have been shown by the officials and employees of both the steamship and railway companies to the immigrants arriving here during the year. I have not heard a single complaint of ill-tratament from any one immigrant ; but, on the com-

trary, overy one with whom 1 have spoken on the subject, expressed themselves as well satisfied with their experience on board the steanships and on the railroads. I may add that the immigrants travelled both by sea and land without serious accident, mishap or detention.

Permit me, in conclusion, to tender my thanks to the officials of the department at headquarters for the many kind acts of courtesy rendered to me in the course of my official duties.

Your obedient servant,

JOHN HOOLAHAN,

Dominion Government Immigration Agent.

ii.

		7.	OULS																				N	AT	ION
Months.	Adu	lts.	Child	lren	f Souls.												в	ire rita	at in.						
	Males.	Females.	Males.	Females.	Total Number of Souls	Arab.	Austrian.	Belgian.	Bohemian.	Bulcowinum.	Dutch.	Pinnish.	French.	Galician.	Gornun.	Greek.	English.	I Irish.	Scotch.	Welsh.	Hebrew.	Hungarian.	Italian.	I Polish.	Russian.
1900.																									
July August September October November December	92 50 50 72 61 84	43 30 29 50 45 47	$21 \\ 16 \\ 19 \\ 35 \\ 32 \\ 22$	26 16 14 31 29 21	$ \begin{array}{r} 182 \\ 112 \\ 112 \\ 188 \\ 167 \\ 174 \end{array} $	1	3	1	5 2		i	1 3 16	$\begin{smallmatrix}&1\\&3\\&2\\&1\\12\\&6\end{smallmatrix}$	111 57 41 83 48 23			8 4 3 1 1 37	2 3	1 1 15		313		32 17 1 22 28 11	8 1 4 3 5	$18 \\ 12 \\ 14 \\ 43 \\ 21$
1901. January February March April May June	92 183 800 657 340 219	27 51 184 193 174 114		7 13 100 85 120 44	132 263 1400 1062 707 444	6 11		13122103	2	637			1 10 30 25 10	6 4 18 26 193 125	2 42 64 24	12	57 152 988 589 235 110	5	5 18 36 7 11 14	9 14 2	5, 1 3, 5 10	$ \begin{array}{c} 11 \\ 2 \\ 62 \\ 68 \\ 43 \\ 17 \end{array} $	12 22 9 22 44 34	2 3 11 10	3 14 16 10 16
Total	2700	987	750	506	4943	21	17	42	9	16	6	193	101	735	257	18	2185	91	108	26	40	279	254	47	168

STATEMENT A .- List of Arrivals and Departures at the Montreal Agency,

via ports in the United States, for the year ending June 30, 1901.

ALITIE>	÷.										Oc	CUPA.	rioN:						Ďe	STINA	TION	r.	
Danish. Seatandii	Norwegian.		Slavonian.	Spanish.	Swigh.	Syrian.	Total.	Farmer.	Farm Labourer.	General Labourer.	Mechanic.	Clerk and Trader.	Miner.	Female Servant.	Not classified.	Total.	Lower Provinces,	Province of Quebec.	Ontario.	Manitoba.	North-west Territories.	British Columbia.	Total.
3 		22 1 3 1 7			. 12		182 112 112 188 167 174	270 297 297 297 297 297 297 297 297 297 297	24 14 11 16 17 12	$28 \\ 14 \\ 123 \\ 13 \\ 30$	3 2 1 2 8	0)	8 4234	15 12 10 18 12 14	75 50 52 98 94 76	112 112 188 167		33 18 13 9 34	7 3 8 3 2 33	$110 \\ 56 \\ 81 \\ 102 \\ 77 \\ 61$	23 29 16 54 54 18	9 6 7 16 25 28	112 112 188
5 9 3	2 16 16 25 16 16 59	19 79 43		2	 	7	132 263 1400 1062 707 444 4943		173 58 55	34 80 248 289 149 77 986		9 18 83 25 14 15 183	5 10 32 21 17 5 111	12 24 77 87 87 47 415	280 178	132 263 1400 1062 707 444 4943	1513331 5	25 44 156 200 171 108 811	464 343 133 40	18 55 527 299 206 197	19 24 140 125 133 55 690	32 38 102 92 61 42 458	1062 707 444

JOHN HOOLAHAN, Dominion Government Immigration Agent.

DOMINION GOVERNMENT IMMIGRATION AGENCY, MONTREAL, June 30, 1901.

Ħ

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

Multi,			<i>y</i> .	Sours	×							<i>.</i> .	NAT.	101	ALI	NATIONALITIES	οć.									-	DecuPATIONS.	VIC	TIO	NH.				-	LS3	VNE	DESTINATIONS.	NS.	
All Main Main 1		Ad	ults.		ild-	sinos	'stre					BB	ren.	+ 1				 Sca	ndi ans		anazit	-	1				- 340				-		'Dett	1				'sue	
	Months.	Males.			Females.	Total number of	Returned Canadi											Norwegian.																				Returned Canadi	.letoT
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1900. Tat. Just. Just. cuber. ember.	EEeros				218 206 161 161 162 168	921 104 125 125 121	11111	1-9 10-0 ·			+00+0	21		x-0x53			:01	======				68 80 890 890 890 890 890 890 890 890 890	01 m m		145828										+ 9.01 :0	0.010100	1021104	218 206 161 161 163 163
1,241 483 364 283 2,384 1,612 8 29, 6 132 12 4 38 9 8 56 8 207 15 6 6 68 1 226 64 49 10 358 38 16 55 48 1,790 2,364 315 268		4.2 × 2.60				85 252 289 289	65 833 193 184 184 184 184		01									 : :		1.15			2828288									22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		* 2 * 2 8 2	0000+	12232	010000+++	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	289 289 289 289 289 289 289 289 289
	Total	1,24	1480	354	283	314 1	,612	00		6 13				35				9	3		19 22	100	13	4	10.3		3	1 10	7	1,7	90 2,5	164 3	15.2	10K	25.1	15	32.1,	612	2,30

STATEMENT B.--Immigrant Arrivals and Departures at the Montreal Agency from the United States, for the year ending June 30, 1961.

86

i1

STATEMENT C.-Showing the number of Children received at the Montreal Agency, whom in charge of and destination, for the year ending June 30, 1901.

Date.	Name of Person in Charge.	Number of Children.	Destination.	By whom Sent.
28 29 29 29 29 29 29 29 29 29 29 29 29 20 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Mrs. Forster. A. B. Owen D. White. E. A. Struthers, Miss Urguhart, Miss Urguhart, A. B. Owen D. White. D. White. Miss Rawling.	120 104 52 16 10 30 14 10 83 101 27 15 10 22	Montreal, Que. Niagarà on the Lake,O. Peterboro, Ont. Toronto, Ont. Winnipeg, Man. Russell, Man. Ontario.	Dr. Barnardo.
- 31 - 31 - 31 - 31 - 31 - 31 - 23 May 11 - 13 - 20 - 27 - June 10 - 15 - 15	Mr. Drummond. A. B. Owen. D. White. Mrs. Bailey. E. Cupock. Rev. Walacc. Mr. The Farker. Mrs. Murry. Mrs. Murry. Mrs. The Farker. Mr. Th. Farker. Mr. Th. Farker. Mr. Th. Farker. Mr. Th. Sarker.	$\begin{array}{c} 6\\ 60\\ 18\\ 38\\ 50\\ 37\\ 19\\ 47\\ 75\\ 25\\ 102\\ 1\end{array}$	Hamilton, Ont	Church of England Waifs and Strays Sy. Dr. Stephenson. Rev. Wallace. Canadian Catholic Emigration Com. Miss McPherson. Miss Micherson. Dr. Barnardo.
	Total	1,428		

JOHN HOOLAHAN, Dominion Government Immigration Agent.

DOMINION GOVERNMENT IMMIGRATION AGENCY, MONTREAL, June 30, 1901.

11

STATEMENT D.-List of Immigrants Wanted at the Montreal Agency, for the year ending June 30, 1901.

Class of Labour.	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total.	Remarks.
Inders. Carpenters Carpenters Carpenters Carpenters Carpenters Expression and the second second and the second second and the second second and the second second for an and second second for an an an an a	2 17 7 8 2 30 1 7 5 1 5 9 3 3 2 2 3	$ \begin{array}{c} 4 \\ 19 \\ 6 \\ 7 \\ 1 \\ 25 \\ 2 \\ 60 \\ 2 \\ 3 \\ 1 \\ 2 \\ 2 \\ 2 \end{array} $	$5 \cdot 17752$ 19345 2 \cdot 1 2	4 20 9 7 3 15 30 	7 24 10 5 2 12 20 4	4 20 7 4 3 8 10	18 5 8 2 7 9	16 7 9 3 8 12	19 8 11 4 15	10 9 3 30 30 40	12 8 5 5 38	$ \begin{array}{c} 1 \\ 1 \\ 8 \\ 22 \\ 9 \\ 5 \\ 3 \\ 35 \\ 6 \\ 160 \\ 2 \\ 500 \\ 4 \\ 5 \\ 5 \\ 4 \\ 5 \\ 5 \\ 5 \\$	6 72 242 97 86 33 5 242 18 566 7 7 9 6 3 13 2	Fair demand. Good demand. Fair demand (in season). Good demand. Local supply sufficient. Good demand (Western Ontario). Local supply sufficient.

JOHN HOOLAHAN, Dominion Government Immigration Agent.

STATEMENT E.-List of retail prices of ordinary articles of food required by the working classes of Montreal for 1901.

Provisions.	Pri	0114	Provisions.	Pri	сен
	from	to		from	to
Bacon, per 1b. Beef, per quert. Beer, per quert. Beer, per quert. Beer, per lo. Butter, sait, per 1b. Corner, per 1b. Corner, per 1b. Corner, per 1b. Corner, per 1b. Band quality, per berl. Band quart.	$\begin{array}{c} 0 & 10 \\ 0 & 16 \\ 0 & 16 \\ 0 & 18 \\ 0 & 22 \\ 0 & 12 \\ 0 & 20 \\ 2 & 00 \\ 0 & 12 \\ 3 & 00 \end{array}$	\$ cts. 0 20 0 15 0 25 0 30 0 15 0 40 0 30 0 45 0 40 0 30 4 50 0 500 2 500 2 500 0 15 6 00 0 8	Mustard, per Ib. Muston, per D. Oatmeed, per 100 bas Pork, per 10. Pork, per 10. Pork, per 10. "brown, per 10. "brown, per 10. "brown, per 10. "brown, per 10. Caadlen, per 10. Caadlen, per 10. Caadlen, per cod. Son, yellow, per 10. Tobasco, per 10. Tobasco, per 10. Son, yellow, per 10. Tobasco,	$\begin{array}{c} \times \ {\rm cts}, \\ 0 \ 25 \\ 0 \ 10 \\ 2 \ 00 \\ 0 \ 20 \\ 0 \ 20 \\ 0 \ 12 \\ 0 \ 30 \\ 4 \\ 0 \ 1 \\ 0 \ 4 \\ 0 \ 15$	$\begin{array}{c} 8 \ \ cts\\ 0 \ \ 40\\ 0 \ \ 15\\ 2 \ \ 50\\ 0 \ \ 40\\ 0 \ \ 50\\ 0 \ \ 60\\ 0 \ \ 5\ \ 5$

JOHN HOOLAHAN, Dominion Government Immigration Agent.

ii

STATEMENT F.-List of retail prices of ordinary articles of raiment required by the working classes of Montreal for 1901.

	Price	8
Clothing, &c.	from	to
	8 cts.	8 cts
Coats, under, tweed	4 00	6 00
" over, tweed	8 00	15 00
rousers, tweed	2 00	5 00
/ests. tweed	1 00	2 00
Shirts, flannel	0 50	1 00
" cotton	0 50	1 00
" under, wove	0 40	0 75
)rawers, woellen, wove	0 40	0 75
fats, felt	1 00	2 50
locks, worsted	0 15	0 40
" cotton	0 10	0 25
Blankets	2 00	5 00
lugs	0 75	2 50
Plannel, per vard	0 20	0 40
lotton, shirting, per yard	0 8	0 12
Sheeting, per yard	0 8	0 15
Canadian cloth, per yard	0 40	0 75
Shoes, men's	1 50	2 50
" women's	1 00	2 00
Boots, men's	2 00	3 50
" women's	1 50	2 50
ndia rubber over shoes, men's	0 60	1 00
" women's	0 50	1 00

JOHN HOOLAHAN,

Dominion Government Immigration Agent.

STATEMENT G .- Average rate of wages at Montreal, 1901.

Employment.	Wag	ζes	Remarks
	from	to	
Param haburers, per month and haird Females, farm servairs, per month and hoard. 	$\begin{array}{c} \$ & {\rm cts}, \\ 10 & 00 \\ 6 & 00 \\ 10 & 00 \\ 8 & 00 \\ 12 & 00 \\ 12 & 00 \\ 2 & 00 \\ 2 & 00 \\ 2 & 00 \\ 2 & 00 \\ 1 & 25 \\ 1 & 50 \\ 1 & $	$\begin{array}{c} \$ & cts. \\ 20 & 00 \\ 12 & 00 \\ 20 & 00 \\ 20 & 00 \\ 3 & 50 \\ 2 & 50 \\$	The average cost of hoard and lodging for working- men in from E3 to 34 per week. The reat of workingmuch's dwelling (three to four per month from the per per month from the per burbs cheaper reat can be had.

JOHN HOOLAHAN, Dominion Government Immigration Agent.

REPORT OF THE ANDREWS HOME, MONTREAL.

(Appended to Agent Hoolahan's Report.)

The Andrews Home, 46 Belmont Park, Montreal, July 14, 1901.

The Dominion Immigration Agent, Montreal.

Sum—In accordance with a circular received from your department I have much pleasure in handing you the annual report of immigration work at the Andrews Home. Although there has been an increase in foreign immigration there has been a decrease in English immigration with which we are more immediately connected. However, we consider that a good and helpful work has been done. We would take this opportunity of acknowledging the cheerful assistance rendered us at all times by yourself and assistants. Statistics for the year —

Visits individual to the office	1,230
Total visits to the office	2,040
Newly arrived men and lads	625
English letters received	136
English letters written	142
Canadian letters written	449
Canadian letters received	441
Letters received for immigrants	628
Lads under 20	184
Situations obtained	324
Moneys received for tickets and in trust	
Moneys expended and refunded	50 49

WOMEN'S BRANCH.

Visits to matron's office	1,420
Applications for girls	535
Girls applying for situations	102
Situations obtained for girls	-83
Newly arrived women	99
Newly arrived female children	70
Women passed through the home	493
	2,928
Total number of situations obtained.	412
Total number of newly arrived	794

This institution was founded primarily by His Grace the Archbishop of Montreal for the benefit of Church of England immigrants, but all are welcome who elaim our assistance.

Yours faithfully,

J. FREDERICK RENAUD, Secretary.

REPORT OF THE WOMEN'S NATIONAL IMMIGRATION SOCIETY.

(Appended to Agent Hoolahan's Report.)

87 OSBORNE STREET, MONTREAL, July 10, 1901.

The Dominion Immigration Agent, Montreal.

Sig.-I beg to forward to you the report of the above society, since July 1, 1900, to June 30, 1901.

Two hundred and fifty-one immigrants have been registered during the year as follows :---

153	Church of England 140
47	Roman Catholics 35
25	Presbyterians 30
	Lutherans 16
	Church of Ireland 13
	Congregationalists 9
2	Baptists 5
1	Unitarians 1
2	Methodists 1
2	Wesleyans 1
1	

251

One hundred and thirty-six came out from the United British Women's Assoeiation.

Forty-three remained in Montreal.

Ninety-three went to Ontario and the north-west provinces.

I am glad to call to your notice an increase of about 50 female immigrants, as compared with the years 1899 and 1900.

The society have organized a scheme for still further increasing the number of English young women for domestic service.

Twenty-four Irish servant girls arrived last week from Mr. Devlin, the government agent in Dublin, who obtained excellent references of character from their former employers. Their passage money is guaranteed to the steamship company by this society, who will collect the same in monthly instalments from their wages. They are bound to remain in Montreal until the money is refunded. These will be included in the numbers for the eurrent year. If the society find this arrangement satisfactory, they hope to carry it out on a larger scale in the future, and they earnestly hope the Domiion government will show their appreciation of the effort by increasing the amount of the annual errat next vear, if possible.

Your obedient servant,

MARY GILLESPIE, President W.N.I. Society.

251

No. 5.

REPORT OF G. BOGUE SMART, INSPECTOR OF BRITISH IMMIGRANT CHILDREN AND RECEIVING HOMES.

DEPARTMENT OF THE INTERIOR, OTTAWA, June 30, 1901.

The Superintendent of Immigration, Ottawa.

SIR,—I have the honcur to submit my second annual report as Inspector of British Immigrant Children and Receiving Homes in Canada.

I am pleased to be able to report that during the past year this important branch of immigration has been very satisfactorily promoted. The opinion expressed in my former report, that the duties of my office would materially increase each year, owing to the great demand for British immigrant children, has been fully borne out.

My report will refer more especially to such facts, in connection with this branch of immigration work, as are of general public interest.

Acting under departmental instructions, Mr. C. W. Speers, general colonization agent, reported upon the children placed throughout the province of Manitoba and the North-west Territories. Mr. Speers' reports were carefully prepared, and, on the whole, indicated that the children had been placed in very satisfactory homes, and were making good progress.

Included herein will be found condensed reports on the various receiving and distributing homes personally inspected by me in the course of the year. In this connection, I may say that the superintendence of the homes and the interests of the societies have been placed in very capable hands, and that, without exception, these institutions are satisfactorily conducted, and the best interests of the children are carefully guarded.

The work of the various societies during the past year has been undiminished, and in nearly every case their annual immigration parties have shown an increase in numbers.

The following statement will show the number of British immigrant children emigrated to Canada during the past five years by the principal societies, &c. :--

Year.	Private Societies.	Boards of Guardians.	Total.
1895	1,603	227	1,830
1896	1,719	201	1,920
1897	1,549	99	1,648
1898	1,101	74	1,175
1899	1,144	145	1,289
1900	1.393	185	1.578

It will be observed that there was a falling off in the numbers subsequent to the year 1897. This was attributable, in a large measure, to Mr. Quarrier's discontinuance of his work in Cauada, which occurred about the year 1898. There has, however, been a noticeable increase during 1900 and the first half of the present year.

I regret that there are no data available to enable me to furnish an accurate statement showing the total number of children emigrated from Great Britain by the

different societies since the inauguration of the work some thirty odd years ago. My researches in this regard, however, justify me in placing the number in the neighbourhood of forty thousand.

I find that a harge percentage of the children earry on a regular correspondence with their friends in the old country, and in some instances I have been advised that the success of the children has induced their friends to follow them to this country, where they have settled permanently.

The unprecedented demand for immigrant children, which I noted in my former report, still continues, and this condition of things must be accepted as a proof of the general satisfaction which the children have given their employers or foster parents.

The following statement will show the number of children emigrated to Canada during the past fiscal year by some of the principal societies, and the number of applications received for children :—

Society or Agency.	Children Immigrated.	Applications Received For Children.
Bristol Emigration Society, St. John, N. B	38	96
Girls' Home of Welcome, Winnipeg	4	8
Shaftesbury Home, Winnipeg .	2	55
*Canadian Catholic Emigration Society, Ottawa	132	
Dr. T. Bowman Stephenson, Hamilton	38	319
Miss McPherson, Stratford.	45	579
Church of Eugland Incorporated Society for Providing Homes for Waifs and		
Strays, Sherbrooke and Niagara-on-the-Lake	85	423
Mr. Fegan's Home, Toronto. (Annual emigration party had not arrived.).		200
Rev. Robert Wallace, 'Marchmont,' Belleville	71	1.342
Mrs. Birt, Knowlton.	137	950
Mr. Middlemore, Halifax	99	200
Dr. Barnardo's Homes, Toronto, Peterborough, Winnipeg and Russell, Mani-		
toba	889	4,415

The aim of those engaged in this branch of emigration work, which is purely philanthropic, is to give each child a start in life under conditions more favourable than could be obtained for such children in the thickly populated districts of Great Britain.

The friends and promoters of the various homes prefer that the children should be placed in country districts with farmers, that they may obtain a knowledge of agriculture, with a view to their ultimately becoming farmers ; consequently, very few are found in other than farming districts. However, the demand for domestic sorvants has been so great during the past year that a comparatively small number of girls, of fiftene years and upwards, have been placed in towas and cities.

Statement showing the location, by province and county, of the children reported upon during the year ended June 30, 1901 :--

"No record of applications kept.

ONTARIO.

Placed by Dr. Barnardo.

				Boys.	Girls.	Total.
County of	Carleton			3	2	5
"	Dufferin			4	2	6
44	Durham			_	4	4
44	Elgin			5		5
44				11	1	12
66	Halton			1	_	1
44	Huron			ĩ	1	2
44	Brant			-î		1
44	Bruce			7	2	9
	Lincoln			i	_	ĩ
66	Lanark.			î	2	3
	Lambton			7	ĩ	8
44	Middlesex	11		15	2	17
<i></i>	Muskoka	11	• •	4	5	9
66	Oxford	• •	• •	0	0	2
	Peel.		•••	2		2
66	Peterborough		• •	Ĩ	1	ő
"	Russell	• •	• •	-	T	1
		• •		4	1	5
	Wellington	• •	• •	3	2	5
City of T	Simcoe	• •	• •	0	2	1
City of 1	oronto	• •	• •	1	_	1
7D (1						0.1
Total.						91

Placed by Canadian Catholic Emigration Society.

Boys.	Girls.	Total.
County of Brant 2	_	2
" Carleton 15	_	15
" Grey 3		3
" Lanark 2		2
" Renfrew 1		1
" Russell 2		2
" Wellington 6	1	7
" Welland	1	1
District of Nipissing	1	1
City of Ottawa 1	_	1
" Toronto	1	1
Total		. 36

Placed by Rev. Mr. Wallace.

	Boys.	Girls.	Total.
County of Hastings	. 2	_	2
" Leeds		_	2
" Lanark	. 1		1
" Oxford	. 1		1
" Dundas		1	1
City of Toronto	. 2	_	2
Total.			9

Placed by the Church of England Waifs and Strays Society.

	Boys.	Girls.	Total
County of Lincoln		2	2
" Kent		1	1
" Bruce		1	1
" Brant		-4	4
" Middlesex		1	1
City of St. Catharines		2	2
Total			11

QUEBEC.

Placed by the Canadian Catholic Emigration Society.

	Boys.	Girls.	Total.
City of Montreal	. 2	5	7
County of Ottawa	. 11		11
"Huntingdon	. 2		2
" Pontiac	1		1
" Chateauguay	1		1
" Jacques Cartier	4		4
" Laprairie and Napierville			11
" Beauharnois			4
" Stanstead	1		1
Total			42

Placed by the Church of England Waifs and Strays Society.

	Boys.	Girls. Total.
County of Stanstead	1	- 1
" Sherbrooke		- 9
" Richmond		- 2
" Magog		1 1
Total		

MANITOBA AND NORTH-WEST TERRITORIES.

Placed by Rev. Mr. Wallace.

Indian Head	Boys.	
Total		2

Placed by Dr. Barnardo's agents.

	Boys	Girls.	Total
Austin			
Glenella			1
Stony Beach	1		1
Total			. 3

Placed by Hon. Mrs. Joyce.

																B	y	в.		(31	rl	s.			T	ota	ıI.
Brandon.																-	_					2					2	
Newdale.	• •																1				-	-					1	
Wolseley	•						•	•	•	•	-	•		•								1					1	
Total																											4	

NEW BRUNSWICK.

		Boys.	Girls.	Total.
County of	King's	20		20
44	Westmoreland.	5	_	5
	Charlotte	2	2	4
44	Queen's	5	3	8
"	York	. 1	_	1
44	St. John			7
Total.				45

Placed by the Bristol Emigration Society.

I am glad to be able to report that good judgment appears to have been exercised in the selection of homes and situations for these children. Applicants are required to furnish the agency with a reference as to their character and general standing in their respective communities, before a child is entrusted to their ears. As a result of this presenution on the part of the agencies, I can say that, with comparatively few exceptions, the children receiver proper transmut at the hands of their employers. The future prosperity of the child has been found to depend largely upon the character and suitability of the first homes in which the bey or girl is placed. I have been lossed to learn from the various agencies that there have been very few cases in which children have had to be removed from their first homes and replaced.

The regulations of the different societies vary but little and may be briefly stated to be as follows: The prospective employer undertakes to properly elothe the child nato to provide schooling for, at least, four months during the year, until the child reaches a stated age. Their religious education is likewise provided for, and their attendance at church and Sunday school is stipulated in the agreement which is entered into between the agents of the homes and the employer.

Many of the children are treated as members of their employer's family and participate in the comforts enjoyed by them.

Very few complaints have reached me from employers concerning the general character and behaviour of the children, and these have been of a trivial nature. In justice to the agents of the societies represented in Canada, I wish to say that in no instance have I found them to act as apologists for the children, but they are anxious to investigate and satisfy any complaints that may reach them concerning the behaviour of any of the children. It is occasionally mecosary for some of the societies to extern to England those of the children who have proved to be unsuitable, either physically or mentally.

In the course of my inspections during the last year I have found the children to be, on the whole, sufficiently healthy and robust in appearance to warrant me in saying that I believe them to be a desirable class of immigrants for the country districts, and that, provided the same standard of health and morals is maintained, their immigration in still creater numbers should be encouraged by the government. II REPORT OF INSPECTOR OF BRITISH IMMIGRANT CHILDREN

SESSIONAL PAPER No. 25

It is understood that the children receive a careful primary education in Great Britain prior to emigration, and I am able to say that on the closest investigation, I have never yet found a case of illiteracy amongst them.

There is no doubt that in the minds of the English philanthropists, Canada is regarded as a most desirable colony for the settlement of their poor and dependent children. At the annual meeting of the friends of Mrs. Birt (a report of which I have before me), Mr. Archihald Williamson, in the course of his address, is reported to have said \rightarrow I tis no depreciation of the strength of our country when we take children from Liverpool and place them in Canada, as it is part of the Enpire, and I am told by Mrs. Birt that some of the boys have manfully come forward and joined the Canadian contingent which has been doing such good service in South Africa, and part of which we have been welcoming to Liverpool to-day with that enthusiant that possesses our hearts. In the closing part of the century there is no doubt this nation has realized to a greater extent than ever before its duty towards destitute children. It is one of the high duties of citizenship and particoins to look after the children.²

During the year 1399 a number of children were sent to Canada from Edmonton, near London, and in order to assertian their progress in their new homes the Reverend David Fotheringham, Chairman of the Edmonton Board of Guardians, visited the Dominion and spent some time among them. The local government journal of the issue of the 10th of November, published a report on his observations, in part, as follows: — Altogether from what I aw and what I heard, I am of the opinion that the guardians could not do better for the children who desire to emigrate than to send them to Canada. They might rest assured that their future home would be respectable, and that they would be trained in the habits of industry and instructed in religion, and if there is no before them a prospect of grant riches, they would, at leash, be certain of their graining a comfortable livelihood by honest labour. I shall be glad if this somewhat lengthy report has the same effect on the Board of Guardians as my visit had on my own mind regarding Canada as a desirable country to which our children should be sent."

In a recent letter received from Mr. Fotheringham, he states that he was delighted to see the good homes in which the children were placed in Canada.

In consequence of the arrangement entered into with the British government, to which particular reference was made in my previous report, recurrent inspections have been provided for 348 children, and to defray the cost of such re-inspections the British government has deposited with this department the sum of \$5,543.66.

PROTESTANT ORPHAN ASYLUM, MONTREAL.

The work of this institution is confined exclusively to the care and training of orphan children resident in the province of Quebec.

GIRLS' INDUSTRIAL HOME, TORONTO.

This is a branch of the Young Women's Christian Association, and its purpose is to provide a suitable home for girls who come from different parts of the province of Ontario to obtain situations in the city.

CHURCH OF ENGLAND WAIFS' AND STRAYS' SOCIETY, 'GIBB HOME,' SHERBROOKE, QUEBEC.

This home, which is located in the midst of large grounds overlooking the St. Francis river, has recently been renovated throughout and presents a very near appear-25—in-74

ance. The accommodation provided for the children is quite satisfactory, the dormitories being large and well ventilated and kept iu good order. I found three boys here at the date of my visit; one of the older boys is permanently employed about the premises; the other is recuperating, having met with an accident in a saw-mill, where he was employed; the third, a very young boy, will remain in the matron's charge for some time before being placed. No difficulty is found in providing situations and homes for the boys, in fact, the demand far exceeds the supply. The general work of the home is relegated to a committee of citizens of Sherbrooke. At the date of my visit the annual party of boys had not reached Canada, but it was expected that they would arrive during the month of June. The general health of those placed is said to have been remarkably good. For the most part situations and homes are provided in the eastern townships. Persons engaging boys are required, in addition to providing a testimonial as to their character, to execute an agreement with the matron, which provides, briefly, as follows :- The employer is required to pay the expenses of the child from and to the home, if returned; to keep an accurate account of all wages spent in clothing; to report yearly to the home the progress made by the child on a form supplied for that purpose. The indenture also provides for regular church and Sunday school attendance, and when it is necessary for the child to be returned to the home, notice must be sent two weeks in advance; the matron of the home having the right, at any time, to withdraw the child, should she see fit, on the employer failing to fulfil any of the above conditions.

'OUR WESTERN HOME,' NIAGARA-ON-THE-LAKE, ONTARIO.

To Miss Rye belongs the distinction of having been the first to engage in the work of juvenile emigration to Canada from Great Britain. The records of the government indicate that her first party of girls arrived at Quebec during the year 1868. As a result of her labours parties of children have annually been sent to Canada. It was pointed out by her to friends in England that if children were removed from the dangers which exist in the over-crowded centres and thickly populated districts in England, and placed in good environments, many an otherwise wasted life would be saved. Much interest appears to have been awakened as a result of her appeals, and the handsome sum of five thousand nounds was subscribed to aid her in her commendable work. A distributing home was then established in Canada, and Niagara-on-the-Lake was selected as a suitable point; the celebrated English historian, Froude, being one of the first trustees. The building selected is well adapted for the work, and may be said to be one of the most interesting structures, from an historical point of view, at the present date remaining in Ontario. It is mentioned in Dent's History of the Rebellion of Upper Canada, as having been the scene of an extraordinary trial, in the earlier years of the century, 1817-18, arising out of those stirring times which marked the early history of Ontario. The house was originally the district court-house; the wide stairway, the position of the judges' and jurors' seats, the prisoner's box and condemned cell, may still be seen as they were in the early days. I have been unable to obtain the exact figures showing the number of children brought to Canada during the past thirty or more years by Miss Rye, but from the information available, I can safely place the number at between four and five thousand. A few years ago Miss Rye relaxed her former activity in the work, and the home at Niagara passed into the hands of ' The Church of England Incorporated Society for Providing Homes for Waifs and Strays,' and is known as 'Our Western Home.' During the past year twenty-nine girls arrived in Canada-a slight decrease from the numbers of 1899. Applications have been very much in excess of the number of children emigrated. Only one girl, fourteen years of age, was returned to England during the year as unsuitable. The general state of health has been very satisfactory, apart from a few cases of scarlet fever. Two deaths

were reported among their number from hemorrhage and consumption, respectively. The children are visited in their homes once each year by a lady connected with the society. At the date of my visit there were twenty-eight girls, in all, at the home, trenty-two of whom were for adoption, and ton years was the average age. There were also site older girls at the cottage. These girls were changing their places and were waiting to go to new ones. The Children were very bright and contented; well clad, and bere every evidence of being well cared for. During the time they remain at the homo their educational and general training is not neglected. A private school is lobd very week day and they receive instruction in elementary subjects. In addition to this they are taught general house work. They attend the Church of England regularly. The school room, dormitory and the hose throughout were very neat. The superintendent is assisted by an advisory bond chosen from the citizens of the town. The society has a branch home for boys at Sherbrooke, Que.

MR. J. T. MIDDLEMORE'S HOME, FAIRVIEW, HALIFAX.

Mr. Middlemore established this home at Fairview, a suburb of Halifax, N.S., in 1893. The location, as far as health and convenience are concerned, is all that could be desired. Since the establishment of the home the work has gone steadily forward. and on an average 100 boys and girls have been received and distributed. The work of the home is confined to the maritime provinces. The number of children whose names appear on their visitors' list, and their location by province, is as follows :- New Brunswick, 250; Nova Scotia, 150, and Prince Edward Island, 86. Four visitors are employed throughout the provinces, whose duties are to visit the children annually at their homes. A careful supervision appears to be maintained over the children. This year's emigration party arrived on the 5th of June, and the superintendent informed me that no difficulty was found in providing homes for the cutire number; applications having been received for four times as many as arrived. Ninety-seven of these children were from philanthropic institutions, and two were from English unions. There were three children at the home on the date of my inspection, one boy, five years of age, and two girls, six and fifteen years, respectively. These children had already been provided with homes, and were waiting to be sent to their destinations. The general health reports have been very satisfactory, and only two deaths have occurred during the year; these were the result of ordinary ailments. The superintendent advises me that no complaints of a serious nature were reported at the home during the past twelve months. Cases of harsh treatment by employers have been remarkably few, in fact, only one such case had been brought to his notice; the result being that the child was employers have been very satisfactory. The work is undenominational, but Protestant. Parties making application for children are required to furnish a recommendation by a minister to the effect that he can conscientiously recommend the applicant as a suitable person to be entrusted with the care of the child, and thoroughly competent to train to furnish a report of the child's progress and general condition once a year, if required, In conclusion, I may say that after a careful inspection of the home, I am satisfied that the work is conducted creditably and efficiently by the superintendent.

MARCHMONT HOME, BELLEVILLE, ONTARIO.

Through the death of Mrs. Wallace, wife of the Rev. Robert Wallace, of Marchmont Home, this philanthropic work has sustained a severe loss. Mrs. Wallace was

amongst the first to take up the work of invenile emigration from Great Britain to Canada. In the year 1869, Mrs. Wallace, then Miss Agnes Bilbrough, directed her attention to the needs of orphan and neglected children of East London, and in the following year her first party of boys and girls were emigrated to Canada. She at once realized the necessity of establishing a receiving and distributing home in Canada, and Belleville was finally selected as a convenient locality. After the destruction, by fire, of two houses, the present Marchmont Home was erected. Nearly seven thousand children have passed under her care, and of this large number not more than two per cent are said to have been failures. I am glad to be able to state that the Rev. Mr. Wallace purposes continuing the work on the same lines under which it was inaugurated some thirty years ago. For the purpose of selecting a suitable class of children for emigration, Mr. Wallace has made special journeys to England and Scotland annually. The work is carried on independently of any similar institution in the old country Many of the older boys, whom I have met, are now occupying good positions, and are held in high esteem in the communities in which they reside. In addition to the annual visits which are made, they endeavour to keep in touch with the children by correspondence, and at Christmas a special letter, with a Christmas card and a good class of reading matter, is sent to each child. The applications for children have been largely in excess of the number of children brought out during the year, and many of these were from persons who had received children from Marchmont Home before. the former children having grown up and started out for themselves. At this date there were two children in the home, a boy of fifteen years and a girl of the same age; both were waiting to fill situations already provided for them. One girl of sixteen years was returned to England, as it was feared that her mind was affected. The general health reports have been very satisfactory, a single case of typhoid fever being the most serious illness reported. Mr. Wallace states that their boys are to be found in nearly all the walks of life, and that while the majority of them remain on the farm, others after a while learn different trades, in which many of them have had some training previous to their emigration, and others having saved money, take a course at a business college and enter mercantile life.

MR. FEGAN'S HOMES.

Mr. J. W. G. Fegan inaugurated his work on behalf of waifs and strays in southeast London in 1870, and in 1872, assisted by a few friends, a home for boys was opened at Deptford, since which time this work has greatly increased. The work of the various homes is under the supervision of a council bearing Mr. Fegan's name, and embraces the following institutions :—

The Boys' Home, 95 Southwark Street, S.E. Orphanage and Training Home, Stony Stratford. Ramsgate Orphanage, Ramsgate. Southwark Home Mission, Blackfriars, S.E. The Medical Mission, Blackfriars, S.E. Factory Girls' Institute, Blackfriars, S.E. Working Youthe' Institute, 91 Southwark Street, S.E. The Canadian Distributing Home, George Street, Toronto, Ontario.

The work is undenominational, while definitely Protestant, its score not being confined to London alone, but children from any part of the United Kingdom are welcomed; any needy boy being cligible for admission to the homes. Applications for boys during the past year have greatly exceeded the supply. The ages of those received

here vary from ten to eighteen years. Boys of ages ranging from ten to twelve years are indentured for periods of three, four and five years, and receive board, elobing and schooling during winter. Boys of thirteen, fourteen and upwards are engaged by the year, at wages ranging from 824 to 854, based, of course, in accordance with their size and ability—elobing to be provided, and they are allowed the current rate of interest on their savings. The children are visited each year box concented with the home, and a general correspondence is maintained with the children. There were no boys at the home at the date of ny visit.

DR. T. BOWMAN STEPHENSON'S HOME.

Dr. Stephenson's Distributing Home is located in the township of Barton, within a short distance of Hamilton, Ontario. The grounds are large and spacious, and ornamented with various varietics of fruit trees. For a children's home the location is in every way suitable. The reports received from the employers and visitors as to the progress, &c., of the children are said to have been generally of a satisfactory character. The demand for children this year has been very great, and the governor states that never since he has assumed charge of the work has he been so inundated with applications from all parts of the province. The governor, in his annual report to Dr. Stephenson, states, in part :- 'I hope that the time will come when the system of distribution will send us more boys to Canada, for the more I see of the work the more I am convinced that the average boy has done splendidly in Canada.' Until a few years ago, Dr. Stephenson emigrated both boys and girls to Canada, but during the last few years his emigration parties have been confined exclusively to boys. The children emigrated to Canada receive their preliminary training in Dr. Steph-uson's reported during the year. At the date of my visit there were two little lads in the home, of five and eight years, respectively. Owing to their age, and the fact of their being brothers, the governor considered it inadvisable to separate them at present, and they will be kept at the home. The number of children in the home at any time other than immediately following the arrival of a party from England, seldom, if ever, for the purpose for which it is used, although not especially built for a receiving home. The dining-room, bath-room, dormitories, &c., are all conveniently urranged, and I found the home throughout very comfortable indeed. The reports and books ar neatly and systematically kept, and any information concerning the children is easily available.

MISS MACPHERSON'S HOME.

Miss Macpherson was amongst the first to engage in the emigration of lows and girls from Great Britani to Canada. For some time she was associated in the work with Mrs. Birt and Miss Bilbrough. These philanthropic ladies have been most untiing in their efforts on behalf of poor and neglected children. I am informed that, with comparatively few exceptions, the children sent to Canada by Miss Macpherson have become good citizens, and namy of them have occupied positions of trust in various parts of the Dominion. The work is carried on independently of any society in Fagland or Secutiand. The children are personally selected for emigration by Miss Macpherson, and such selections are made with a view to general adaptability for Canadian firm lift. During the past year their emigration parties numbered sixty boys and girls, and with the exception of three of the children, who were under six years of age, all hare been placed. The work is confined, for the most part, to the western penimsul

103

of Ontario, and very few of the children are to be found further east than the county of Wellington. The situation of the home is convenient and the surroundings agreeable. The interior is very commodious and will accommodate a large number of children. The accommodation, however, is seldom taxed, unless immediately after the arrival of a party. As soon as the children reach Stratford, they are at once despatched to their foster homes, and in the case of the larger boys and girls, to situations already provided. As has been the case for some years the supply of children has been inadequate to meet the demand. The home is under the management of a superintendent, who, in any opinion, discharges his duties very efficiently.

THE BRISTOL EMIGRATION SOCIETY.

This society has for many years been engaged in the emigration of children from England to the province of New Brunswick. During the year just ended thirty-one boys and two girls were sent to Canada under the society's anyices, the demand for children exceeding the supply. The conditions under which the children are placed are verbal, and provide for the board and clothing of the child. I would strongly recommend that in the future this plau be changed and persons receiving children be required to enter into a written agreement. The general condition of bealth amongst their number has, I am advised, been very satisfactory. The ages of the children emigrated are minimum, eight, and maximum, sixteen years. The agere considers that at eighten years of age his oversight and responsibility with regard to the children cease.

THE SHERBROOKE REFORMATORY FOR BOYS.

This institution is under the control of the government of the province of Quebec. The terms range from two to five years, and no boy over sixteen years is received. At this date there were thirteen lads in the institution. They attend school from one to four o'clock each week day, except Saturday, and during the forenoons from 8 to 12 they work in the saddlery workshops under an instructor; they also attend one of the city Anglican churches every Sunday, and in the afternoon a Sunday school is held in the institution, conducted by residents of the city. The boys are frequently taken to various local attractions in the city, such as fairs and games, and are exceptionally well treated by the superintendent, who appears to be much interested in his charge. The sleeping apartments, school room and dining room were in splendid order, and were an evidence of the efficiency of Mr. Reed, the superintendent. It is unfortunate that this institution is located in such close proximity to the district jail, and the provincial inspector very properly states that: 'The fact that the children's abode, their school room and their work shop, is situated in a prison does not harmonize with the idea that it is a reformatory school.' The object of the first is to punish; that of the second to reform children, who for want of parents or other persons to control them, are on their way to vice. Apparently every comfort is afforded the boys; they are well clothed, neat and clcan, and have every appearance of being well cared for. I found only one British immigrant lad in the institution. He is hardly nine years of age, and altogether too young to learn a trade. The superintendent appears to be much interested in the child, and hopes to find a good home for him in the near future.

DR. BARNARDO'S GIRLS' HOME, PETERBOROUGH, ONTARIO.

It is now some years since Dr. Barnardo selected Peterborough as his distributing point for girls, and a more suitable or convenient location could hardly have been

chosen. 'Hazel Brae' is the name by which the home is known. It is very pleasantly located at the outskirts of the town of Peterborough. The home is surrounded by a large garden and lawn, the latter affording ample play ground for the smaller children. and airy. I made a careful inspection of the building throughout and found it conments appeared to me to be very satisfactory. Fire escapes and a good supply of hose for safety in case of an emergency. The dormitories, dining room, kitchen, play boom, school room, &e., are all conveniently arranged. The infirmary is capable of accommodating, I should judge, six cots. At the date of my visit three patients were receiving treatment here, but their illnesses were not of a serious character, and two of them were convalescent. The general health of the girls has been very satisfactory during the past year, and considering the large number of these children who are scattered throughout the province, the fact that only two deaths have been reported during 1900 is certainly a testimony to their physical soundness. In case of ill-health they are permitted to return to 'Hazel Brae' and are afforded the best of eare and treatment. Good discipline prevails throughout the home. The training received by the younger girls stands to good advantage when they go out into service, as I have observed during the course of my inspection. A private school has been provided for the benefit of such of the children as remain at the home for any length of time. Classes are held ous kinds of domestic work. Particular care is paid to their religious instruction. They attend service at one of the town churches regularly, in addition to the daily services which are held at the home. There were twenty-five little girls in the home at the date of my visit, who were considered rather young to be placed out on their arrival in Canada. Three hundred and twenty girls were received from Dr. Barnardo's English homes during 1900, which in comparison with the figures of 1899 shows an increase of eighty, and yet, 1 am advised that the demand for these children is far from being met. The ages of the children are, maximum, sixteen, and minimum, six years. Two lady visitors are almost constantly engaged visiting the girls at their homes. Each child is the subject of a special report, which is recorded at the office, and as these visits are for the purpose of a general inquiry with reference to the progress, &c., of the child, the results are of benefit to both child and employer.

DR. BARNARDO'S BOYS' HOME, TORONTO.

Dr. Barnardo's interest on behalf of the poor and neglected children of London (England) dusts back some thirty-free years. From a aroual beginning the work has assumed extraordinary preportions. No less than ninety-six homes are at this dato under his direction in Great Britain and the colonies. From a rewart report published by the committee, I have taken the following statistics, which may afford some diago of the magnitude and scope of the work being carried on under Dr. Barnardo's auspices :-- 'Total number of children supported, trained and placed out in life by the home up to December 31, 1899, 38, 753 : average number of children damittel covery 24 hours, 9-82; largest number of admissions in one day, 56; total number of trained boys and girls enigrated to the colonies to the present time, 11,590,

Dr. Barnardo's first parties of boys and girls arrived in Canada between the years 1867-83. Up to the latter year the work does not seem to have been carried on with any degree of regularity, but in 1883, the organization for the emigration of children appears to have been perfected, and since that year parties have continued to arrive regularly each year in Canada, and with the exception of the years 1500-01, in gradually increasing numbers. Dr. Barnardo has four distributing centres in Canada ; two in Ontario, and two in Manitoha, as follows :— Boys' Home, 214 Farley Avenue, Toronto. Girls' Home, 'Hazel Brae,' Peterborough, Ont.

Branch Home for Boys, 115 Pacific Avenue, Toronto.

Industrial Farm Home for Youths, Barnardo, near Russell, Manitoba,

The headquarters for the general superintendent for the Dominion are at 214 Farley Avenue, Toronto.

The general state of health of the children has been very satisfactory.

A savings bank account has been established for the purpose of encouraging the boys to save a portion of their earnings in order that they may, when of age, have sufficient capital to make a start in life on their own account. This arrangement has been found to be a very good one, and a large number of the boys have taken advantage of it. Thirteen boys, all of whom were quite small, were in the home at the date of my visit, and, with one exceeption, were waiting to go to places. The home throughout is commodious, and kept in good order. It is capable of accommodating with comfort, I should judge, one hundred or more children, if found necessary. The ourtyard affords a good play-ground for the children, and the place is, generally, adapted for its present occupation.

CANADIAN CATHOLIC EMIGRATION SOCIETY, 'NEW ORPINGTON LODGE,' HINTONBURGH, ONTARIO.

(Incorporated.)

The aim of this society is the emigration of boys and girls from Great Britain to Canada, and the placing of them in advantageous homes and situations, and thus to aid them in becoming self-sustaining. During the present year sixty children were brought to Canada. No difficulty has been experienced in supplying children with homes and situations ; in fact, it was found impossible to supply the demand. In consequence of this, there is a very small number of children at any one time in the home. I found three at headquarters at this date ; one of them, a boy of twelve, who had had the misfortune to lose a finger through an accident, and was there recupcrating. Another, a lad of sixteen years, had been returned by his employer as unsuitable. There was also a girl of eighteen years waiting to go out to service, and an application for her had already been received. The superintendent informs me that during the past twelve months the general state of health has been very satisfactory. No serious ailments have been brought to her notice, and there were no deaths to record. The society aims, as far as possible, to place the children in rural districts. Each child is placed out under certain conditions, which are set forth in an indenture, duly signed by the superintendent and employer. A person making application to the society must furnish the superintendent with a certificate as to character. Some of the conditions are as follows : The employer is to furnish board, lodging and clothes, and other necessaries compatible with the circumstances, and at the end of each half year to pay a specified sum of from five dollars upwards to the society, to be banked for the sole use of the boy. In the case of the older boys, they are expected to be paid the wages current in the district in which they are employed. The younger boys are to receive four months' schooling during the year. The agreement may terminate at a month's notice, and the society reserves the right to remove the child, summarily, and without uotice. in case of 'urgent necessity.' In the event of the cancellation of the agreement, the employer is required to return the child to the society's home. Employers are required to notify the superintendent if a boy leaves his place without the superintendent's authority. The home is conveniently situated at Hintonburgh, a suburb of Ottawa, and is commodious and well kept. The sanitary arrangements appear to be good. The house, a wooden structure, contains a bath-room, play-room and sleeping-rooms. It is heated by coal stoves ; lighted by electricity, and has city water connections. The home is capable of accommodating fifty children, although forty is the largest number which is said to have been in the home at any one time. The books and records were written up to date, and well and properly kept.

'LIVERPOOL CHILDREN'S FRIEND SOCIETY AND WORKING BOYS' HOME, 9 GREAT ST. GEORGE SQUARE, LIVERPOOL, ENGLAND.

This society has its Canadian distributing headquarters near Lennoxville, in the province of Quebec, under the supervision of Mr. Samuel MeFadden, J.P., who has acted as agent during the past fifteen years. The ages of the boys emigrated to Canada are, minimum, sixteen, and maximum, twevuty years. The agent states that there has been a great demand for them, and that he usually has about ten applications for each bay. The boys are all located in the county of Sherbrooke, and are reported by their employers to be making good records for themselves. They are all very healthy, and only one bay has been obliged to return to England owing to ill-health. Each low others reliable person, who it thoroughly acquainted with him. The agent estimates that there are about sixty of these boys in Canada.

ST. NICHOLAS HOME, 70 LOMBARD STREET, TORONTO.

This home was founded by the late Arehbishop Lynch, of Toronto, as a home berorphan boys. For the last ten years no British imuigrant children have been reseivedhere. The work of this admirable institution is confined to the city of Toronto, and is presided over by a lady superior and an efficient staff of sisters.

MONTREAL REFORMATORY FOR BOYS.

This institution is under the management of the reverend Brothers of Charity. Boys are committed from the different courts of the province of Ouebee. The maximuni age is sixteen years, and the longest term does not exceed five years. The bays wear a neat uniform, consisting of a blue serge suit, with trimmings of red, which tidy in appearance, and in manner bright and cheerful. There are three day schools, each of which is presided over by a reverend brother. The school rooms are large, well ventilated and bright. The larger boys, who are employed in the industrial branches of the institution, receive an hour's teaching daily, while those who have not as set entered the shops have a half day's schooling. The play or recreation rooms are large, and appear to be sufficiently commodious. The boys amuse themselves by playing various games, &c. They have a large garden in connection with the institution. which gives employment to about twenty boys. Religious services are held daily. A The trades taught here are as follows : Tailoring, shoemaking, tinsmithing and printing. Seventy-five boys are employed in the boot and shoe shop. Their liber is tenshop thirty-six boys find occupation. All kinds of culinary utensils are made here. In the tailor shop all the clothing used at the reformatory is made, and orders for a and some specimens of the work which I saw were very good indeed. The discipline politeness of the boys when spoken to. As the longest term a boy is sent to this instient trades taught. Before the completion of their term the friends of such of the bays who evince any interest in their well being are notified, it order that they may requive them as they leave the place. In case a boy has no friends, the rever ad brothers en-

deavour to find work for him. As far as I could ascertain, there is only one British immigrant boy, at this data, undergoing a term in this reformatory. He had been committed for a term of five years for theft, three years of which have passed. He is a bright and intelligent boy. He is learning the timsmithing trade, and is said to be making good progress. I am convinced from my inspection that this reformatory school is properly conducted, and that due attention is paid to the training, education and comfort of the lads confined to the care of the reverent Brothers of Charity.

PROTESTANT INFANTS' HOME, MONTREAL.

This institution was founded for the purpose of providing a home for children deprived of their untural protectors, either by death, abandonment or otherwise, and for the protection of such children from want, exposure and crime. The regulations which govern the admittance to the home are as follows :- No child under ten days or over four years old. No child subject to any contagious, incurable or other disease. A medical certificate must accompany each infant, and when it is accompanied by its mother she must also be provided with a similar certificate. All necessary clothing is provided by the institution. The charge for children's board is made proportionate to the wages earned by its parents, and in case the child is dependent on charity, and is not visited by its parents or friends, it is held for adoption. Persons wishing to place children in the home must furnish written testimonials from a clergyman or some other responsible person. Infants will not be admitted without their mothers, except in special cases to be decided on by the committee, and the nursing mothers must remain as long as the committee deems it necessary. No woman will be admitted when it is known that she is a mother for the second time of an illegitimate child. The home is governed by a board of lady managers. The staff consists of a matron, who has a general supervision over the institution, one trained nurse and two other nurses. I made as thorough an inspection of the institution as the circumstances would permit. At this date there were sixteen cases. The matron informed me that the general state of health had been good, and the death rate was very small. There are four attending physicians, as well as four consulting physicians, comprising the medical board of the home. The sanitary arrangements appeared to me to be satisfactory. Large galleries extend on the west and south sides of the building from each floor, and these provide a safe play-yard for the children. There is also a large playground on the west side of the building. Fire escapes are provided, and a city fire alarm has been placed in the building. The house throughout was neat and clean, and the ventilation good. At this date there were 44 children in the home, and nine mothers. The children were well dressed and appeared to be bright and healthy and well cared for. I am satisfied from my observation that good discipline exists throughout the institution. I found, amongst others, three British immigrant girls here, taking advantage of the benefits aftorded by this home. Their ages were seventeen, twenty and twenty-four years, respectively. These girls came to Canada during the past few years under the auspices of different societies. They obtained positions as domestic servants, one in the city and the others in the rural districts. I was informed that in each case the persons under whose charge they had come to Canada are aware of their present circumstances. They are bright, intelligent looking girls, and the matron spoke well of them. Religious services are held every Sunday, and prayer meetings every Thursday evening. These services are conducted by the clergyman of one of the city Protestant churches.

THE OLD BREWERY MISSION, MONTREAL.

The aims of this institution, as stated by the superintendent, are to rescue the fallen, feed the hungry, and shelter the honeless. I could find no record of any British immigrant children having been received here during the past year.

Your obedient servant,

G. BOGUE SMART.

REPORTS OF IMMIGRATION OFFICIALS IN WESTERN CANADA.

No. 1.

REPORT OF THE COMMISSIONER OF IMMIGRATION.

WINNIPEG, June 30, 1901.

The Superintendent of Immigration, Ottawa.

 Su_{m} —I respectfully submit a report of the transactions of my office for the fiscal year ending June 30, 1901. The recent alteration of the date of the annual report from the calendar to the fiscal year has rendered necessary the compilation of new tabulated statements.

In the following tables the immigration recorded at this office for the past facal year is set forth, and for purposes of comparison, a table for the fiscal year ending June 30, 1900, has been specially prepared. Statistics are also given of results in previous calendar years, together with other trustworthy information of nationalities, sees, occupations and distribution of immigrants.

The total immigration recorded at this office for the past fiscal year is 32,005 as against 31,510 for the fiscal year immediately preceding. To these 32,005 must be added a percentage for unrecorded immigrants who come in at various points-arrivals which are largely augmented by wagons, long trains of which are constantly trekking into our territories as immigrants used to do from the eastern to the western states. There is reason to believe that the accessions in this way and via Sumas and Rossland, B.C., are much greater this season than formerly, and the usual 20 per cent allowance may reasonably be advanced to 25 per cent and still be under the mark, since it is known that considerably over 8,000 immigrants have sprcad along the line of the Calgary and Edmonton Railway alone this season, and our returns of arrivals at immigration halls show a surprisingly large number who were not reported from any line of railway. This percentage gives an additional 8,001 souls, or a total of 40,005 who have come into western Canada. Deduct from this number departures on route for the western and Pacific States, for western Ontario, and the Yukon, and we have the nct accession of 39,254 to the population of western Canada during the fiscal year now closed, 4,336 of whom settled in British Columbia. Of the total number of immigrants recorded here about 9 per cent were English and Welsh, 3 per cent Scotch, 1 per cent Irish, 31 per cent Canadians (including 1,368 returned Canadians) and 14 per cent Americans.

The annual statements of the General Colonization Agent, the various immigration agents, land guides and other officials directly connected with the work of this office in western Canada, are incorporated in this report.

ii.

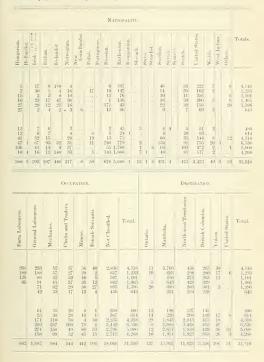
TABLE No. 1-Recapitulation and distribution of Immigrants recorded

	-														
	NATIONALITY.														
Months and Years.	Austrian.	Arab. Belgian.	Bohemian.	Chinese.	Canadian.	Returned Canadian.	Dutch.	Doukholors.	Danish.	English.	Prench.	Finnish.	German.	Greek.	Hebrew.
1899.															
July. August. September. October. November. December.	5 27 14 31 5	56			746 417 490 600 581 376			2,335 4	6 8 2 2 2	$249 \\ 214 \\ 151 \\ 185 \\ 124 \\ 32$	$ \begin{array}{c} 13 \\ 11 \\ 12 \\ 22 \\ 10 \\ 5 \end{array} $	12 15 10 17 28 9	$ \begin{array}{r} 12 \\ 71 \\ 7 \\ 45 \\ 56 \\ 2 \end{array} $		4 17 1 5 3
1900.															
January February March April June,	1		24 13 6 2	ii	249 314 2,611 3,272 1,274 703	$ \begin{array}{c} 10 \\ 1 \\ 32 \\ 57 \\ 128 \\ 90 \end{array} $	1	2	19 11 12 8	28 66 292 498 376 303	$ \begin{array}{r} 12 \\ 30 \\ 102 \\ 31 \\ 22 \\ 26 \\ \end{array} $	15 3 12 18 19 6	$9 \\ 20 \\ 303 \\ 318 \\ 389 \\ 211$		
	84	1 67	45	11	11,633	318	5	2,342	70	2,518	295	164	1,443		79

							\mathbf{v}_{b}							
		Ocean. United States. Canada.				United States.			Canada.					
Months.	Adults.		Under 12.		Adults.		Under 12.		Adults.		Under 12.		Total.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Lotan	Farmers.
1899. August September October November December	1,077 259 118 236 183 69	$1,140 \\ 177 \\ 88 \\ 129 \\ 149 \\ 56$	670 92 89 51 86 29	610 107 39 69 79 19	$116 \\ 94 \\ 124 \\ 157 \\ 135 \\ 46$	55 37 56 78 92 26	35 22 35 55 80 20	50 27 45 64 80 12	419 249 221 180 175 100	156 83 139 179 175 139	97 42 79 97 90 70	91 44 68 110 72 57	4,516 1,233 1,101 1,405 1,396 643	939 125 153 262 282 104
1900. January February March April May June	62 76 346 967 1,209 1,015	37 25 104 377 690 704	18 10 76 372 629 630	18 22 56 332 595 595	$76 \\ 66 \\ 518 \\ 612 \\ 364 \\ 260$	18 32 258 207 117 126	2 24 191 180 66 116	8 22 277 176 74 120	93 180 1,205 1,695 701 285	91 95 621 691 262 198	27 41 359 504 159 122	30 21 307 423 134 97	480 614 4,318 6,536 5,000 4,268	89 131 1,690 2,386 1,602 1,188
	5,617	3,676	2,752	2,541	2,568	1,102	826	955	5,503	2,829	1,687	1,454	31,510	8,951

110

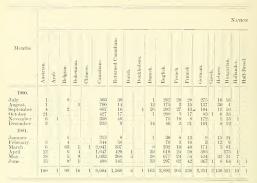
at Winnipeg for the fiscal year ending June 30, 1900.



U

1-2	EDWARD	VII.,	Α.	1902
-----	--------	-------	----	------

TABLE No. 2-Recapitulation and Distribution of Immigrants



			U	nited	State	s.		Can						
Months.	Adults. Under 1		Adults. Under 12.		Ad	Adults. Under 12.		r 12.	Adults.		Under 12.		m . 1	
	Male.	Female,	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Total.	Farmers.
1900.														
July August September October November December	957 408 440 303 161 134	708 308 162 189 102 59	200 121 111 80	$518 \\ 143 \\ 85 \\ 78 \\ 67 \\ 34$	138 222 133 186 97 39	$102 \\ 74 \\ 67 \\ 120 \\ 44 \\ 10$	78 42 56 99 27 8	65 45 45 97 38 6	165 275 233 120 99 89	232	98 108 99 72 66 29	90 81 83 69 61 32	3,707 2,138 1,713 1,614 988 561	530 341 328 156
1901. January February March April. May June .	86 94 410 1,099 1,302 1,197	34 99 339 580 756	14 64 251 358 588	8 15 60 215 330 474	811 971 848 630		27 70 250 319 174 159	13 49 268 293 188 147	95 215 1,083 899 526 217	463 365, 284 164	$26 \\ 34 \\ 275 \\ 203 \\ 171 \\ 74$	22 30 220 214 131 72	474 992 4,355 5,595 5,163 4,705	317 1.865 2,156 1.767 1.658
	6,591	3,358	2,459	2,027	4,395	1,802	1,309	1,254	4,016	2,434	1,255	1,105	32,005	10,210

VIA.

112

reported at Winnipeg for the fiscal year ending June 30, 1901.

NITS.																				
Italian.	hodding to	Inste	Models opt	Norwegour.	New foundharden.	Polieto	Russian	Romanian	Post agrees	Rutheman.	Slovals	Sulse.	Stundist	Swedi h	SV 11/0-	Spoosh	Se whit	1 [00.1] Sec. 5 .	Walda Wattan	factab
18 9 4 17 29 21	$4896 \\ 226 \\ 0 \\ 18$	12 37 1 1 1		24 39 15 8 3 12		8 9 6 9 7 1	115 10 13 1 10	49 6		1,357 189 110 450 64 27	39	4	3		6		2122912	242 28 481 74 21		1.614
3 5 60 55 15 13 148 48	15 19 53 192			$1 \\ 20 \\ 15 \\ 132 \\ 190 \\ 134$	10 2 1		1 14 33 69 50	4. 3 10 1	1	8 16 429 900 1,800	27 3	10 01 0 01		$^{+6}_{-5}\overset{8}{\times}\overset{6}$	13		$\frac{15}{15} \frac{15}{170} \frac{15}{2}$	101 578 1,189 883 577 520		474 992 4,355 5,595 5,163 4,705
479	1,063	340	75	595	21	224	307	73	1	5,050	69	20		650			992	5,197	70-13	32,005
			Oc	et P.	ATIO	N.											NTP.			
Farm Laborrow.	General Labourers,		Merbanies.	Cherks and Traders.		Miners.	Fennie Servants.	Vote obsorbind		Total.		Ontario.		Man/toba.		VOLUE WASA DELLIGRAD.	Yukon	Brush Columba.	Philiped States.	Total
		8 25 2 2	67 65 32 6 96		36 24 34 34	38 57 88 12 1	87 106 10		2,390 1,173 990,		707 11 8 713	1	0	2.910 971 184		L081 812 .338 663		0 181 7 1934 1 396		3,707 2,138 1,713 1,614

996 411

25-ii-8

TABLE No. 3.—Showing the number and sexes of arrivals reported at Winnipeg during the calendar years ending December 31, 1897, 1898 and 1899.

		1897.			1898,		1809.			
Port.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	
Winnipeg	6,705	4,159	10,864	19,015	8,842	27,857	21,496	14,679	36,175	

TABLE No. 4.—Showing the number and sexes of arrivals reported at Winnipeg during the fiscal years 1900 and 1901.

		1960.			1901.	
Port.		1500.			1.001.	
	Males.	Females.	Totals.	Males.	Females.	Totals.
Winnipeg	19,016	12,494	31,510	20,013	11,992	32,005

TABLE No. 5.—Showing the Nativity of Arrivals reported at Winnipeg during the Calendar years 1896, 1897, 1898 and 1899.

Nationality.	1896.	1897.	1898.	1899.
Empirid and Wales	632 13 105 375 49 515 1,113 289 904 102	1,519 69 205 2,373 712 474	3,203 266 701 13,112 2,643 532 998 368 5,509 525	2,833 270 613 11,531 2,233 769 364 1,405 273 7,181 8,643
Totals	4,196	10,964	27,857	26,175

TABLE No. 6.—Showing the Nationality of Arrivals reported at Winnipeg during the Fiscal years ending June 30, 1900 and 1901.

- Nationality.	1900.	1901.
England and Wales	2,567 103 175 $11,6^{+}$ 3,791 718 446 $1,44^{+}$ 362 5,648 4,134	2,963 5,07 6,565 2,500 1,065 2,500 1,065 2,500 1,065 2,500 1,374

DEPARTURES.

Inasmuch as our immigration is drawn from so many different sources, it is gratifying to learn that very few who immigrate to western Canada find the country unsuitable or not good enough for them.

Our travelling agents on the 'Soo Line' between Moose Jaw and Portal, and on the railway between Lethbridge and Coutts, have been specially directed to report all departures from Canada passing into the United States of immigrants who were not intending to return, and not more than ten families and three single nen, comprising fifty-sis could in all, have so departed by these railways. Of those ten families, five, or about one-half the total exodus, gladly returned to their farms in western Canada within three months after their departure therefrom.

There may be a few unreported cases going south via Winnipeg, but these leaving Canada naturally go the cheapest route, which would be one of the two roads above reported.

The staff of agents and land guides in the outside service must be congratulated on the evident care and attention in placing immigrants judiciously, which is so well proven by the surprisingly small number of dissatisfied ones.

IMMIGRATION FROM GREAT BRITAIN AND IRELAND.

The immigration from the United Kingdom during the past fiscal year has net varied to any great extent from the previous record. Our necessions are ngain aniibu from England and Wales, whence we received 2.00%, Scotland contributing 60,2, and Ireland, 340—in all, 4.204, an excess of 950 over the previous fiscal year. The employment of the Imperial reserves, volunteers and yeomatry in South Africa doe nor seem to have much affected our customary quota, which amounted in 1898 to 4.176. But should the moher contry encourage emigration from her shores to South Africa by seriously affected. It is alleged that England's great industrial prospective is more and more attracting labourers from the land to the manufactoring towns, and that good farm hands in consequence are as much in request in scale the shores to the scale the sca

The success of Mr. Robert Adamson in securing first-rate farm hands in Grant Britain last spring is a proof of what might be expected if some new inducement could be offered those already here to send home for their friends.

25-ii-81

IMMIGRATION FROM THE EASTERN PROVINCES.

Our arrivals from the older provinces, including 1,308 returned Canadians from the United States, numbered 9,972 for the past fiscal year. No harvest exearsions took place last season, which must be regretted, as they always leave a portion of their numbers as settlers in the country. But, this year, arrangements are already suggasted for bringing in farm hands, and there can be little doubt that a large percentage of these will remain. Eastern Canadians are not so often seen at this offles. Some secure employment through our bureau, but, being generally experienced farmers with means, they go off to be land upon arrival, and begin operations at once. Aside from the old Scklirk settlers, they are the agricultural pioneers of the North-west, and many families in the eastern provinces are now represented in Manitohe or the Torritories.

FRENCH CANADIANS.

Mr. Leon Roy, our French interpreter, in his report for the year, states that 275 French Canadians came to western Canada from the United States, and 445 from the eastern provinces, making a total French Canadian immigration into the west of 720, of which number about non-half sottled in Manitoba and the Territories, respectively.

There is now a manifest and hopeful tendency of Canadians of French origin in the United States to return to Canada which will receive every encouragement.

Besides his office duties, Mr. Roy has been engaged in looking up lands available for new settlements, locating settlers, and guiding many intending purchasers to lands in the Winnipeg district.

AMERICAN IMMIGRATION.

Our recorded immigration from the United States (aside from returned Canadians) anounted in the past fiscal year to 5,197 soils, nearly all of the male adults being practical farmers. For the fiscal year ending June 30, 1900, our recorded accessions were 3,473, being 1,724 less than for the past fiscal year, both augmented, of course, by the percentage of unrecorded arrivals at points west and south-west of Winnipeg.

Many American citizens have come in with large means and purchased for practical purposes, farms running from 2,000 to 4,000 acres. Lands which three years ago wre unvaluable, now sell readily at fair prices, with an upward tendency. I might mention the case of one Mr. de Grote, who came in last year and bought some 4,000 acres near Shamwan station on the Penbina branch, and borke up some 1,000 acres which are now under crop. He invested over \$20,000, and is of opinion that, if no dissafer happens, the returns from this year's crop will go for to cover his purchases.

ICELANDERS.

Our accessions of Icelanders for the past fiscal year amount to 1,063 souls, being 896 from Iceland, and 167 from the United States. They acquire the English tongue with case; harmonize at once with our institutions, and already their leading mon take at, active part, not only in public affairs, but in the field of letters as well.

The immigration of Icelanders, which had been falling off for several years, started again with a party brought by W. H. Paulson, our Icelandic interpreter, in 1897. This

was followed by others in 1898 and 1899, and Leclandis emigration to Canada was thus rescatabilished. A very bad harvest in Lecland in the latter year increased the desire to more, and an append for aid to the Leclanders here was met by a remittance of \$7,000 towards paying transport. In consequence, Leclandic immigration in the summer of 1900 was the largest since 1893. From information received by the department it was ascertained that a large emigration was contemplated, and Mr. 8. Christopherson was eant to the island last winter and did excellent work as guide and interpreter to the people.

Last winter the Ieelanders here again sent a considerable sum (nearly \$3,060) as passage noney, and already a harge number have arrived with more to follow. The Ieelandic immigration is of a very desirable chas, mostly farmers and young people brought up on farms. Much eredit is due to the Ieelanders in Winnipeg for their kind and generous reception of their people, and I am able to certify that they do not remain long in our immigration hall. Men and girls getting immediate employment, whilst married women and their children are temporarily housed with friends in Winnipeg or in the Icelandie colonies.

The number of Icelandie immigrants from the United States is larger, so far, this season than ever before. They come principally from North Dakota, and have mainly settled around the old colonies at Giuli, though some have gone to other places in Mauitoba, Assiniboia and Alberta.

In connection with Icelandic immigration <u>AI</u>, Signwhar Christopherson reports that he left here for England, and after arranging for transport there went to Iceland, where he worked for three months, visiting all the principal places, meeting and conversing with many of the people whom he had previously notified of his coming. Nine hundred and twenty-four souls left the island during the spring and summer of 1900, and many more decided to dispose of their property and leave this year.

SCANDINAVIANS,

Mr. J. W. Wendelbe, our Scandinavian interpreter, submits his report for the past liceal year with an attached table of arrivals, homestead entries, &e, showing that 294 Swedes, 84 Danes, 194 Norwegians and 233 Finlanders have arrived here from the European countries; and 492 Swedes, 80 Danes, 377 Norwegians and 70 Finlanders from the United States, a total of 1.764 Scandinavian scoles. These immigrants were nearly all farmers, and at least 60 per cent of the families brought each a car-load of effects, and all had enough money to make a good start in ferming. The Dominion lands agents report 44 Danes, 277 Neweles, 276 Norwegians and 10 Finlanders to have made homestead entry in western Canada during the twelve months, representing 1,260 scales. Of the 489 from the States, 266 some from North and 184 from South Dakota; 304 from Minnesota, 99 from Montana, 40 from Norths, 17 from low, 21 from Visensini, 16 from Utah, 15 from Kansas, and 19 from various eastern states, the adjacent states having thus furnished the largest quota, proving that the work close at hand has been faithfully attended to. Scandinavian people, generally speaking, are well satisfied with heir new homes, and with the fine erop propersets will be more inclined to urge their friends to join them. They are a fine class of jubingrants, and ary effort to secure them will be much appreciate Ute the Canadina needed of the west.

	Sexes.	Occupation.	Declared Destinat's.
Nationality. Where From.	Male Adults. Feunde Adults. Males mider 12. Feundes under 12. Totals.	Farmers. Farm f.abources. General Labources Mechanics. Uclerles and Traders Domestics. Not Classified.	Total. Ontario. Manitola. N. W. T. British Columbia. Total.
Swedish Sweden	166 76 30 22 294	38 44 81 . 3 31 97	294 10 177 75 32 294
United States	238 81 77 66 46;	193 1 39 5 8 216	462 38 22 395 7 462
Danish Denmark	47 14 14 9 8	10 21 13 1 2 3 34	84 50 24 10 84
United States	31 18 14 17 80	27 2 2 3 46	80 6 25 49
Norweigans. Norway	115 30 19 10 19-	51.33 28 5.14 68	194 117 45 32 194
" United States	209 53 56 59 371	201 3 4 . 1 3 165	377 . 28 349 . 377
Findlanders Finland	185 38 3 7 233	5 2 171 1 15 39	233 72 42 20 99 233
" United States	28 14 12 16 70	27. 1 12	70 69 1 70
Totals			1,794 1,794

TABLE showing Swedish, Norwegian, Danish and Finlandish Immigration for twelve months ending June 30, 1901.

GERMANS.

Mr. Chas. A. Jones, our German officer and interpreter, reports the total arrivals for the fiscal year at 2,261 souls all told, a very gratifying increase over former years, necessitating much more labour and attention.

The class 'Germans' includes Germans proper from Germany, and German speaking people from the United States, Austria, Russia and Switzerland. Russia furnishes by far the largest portion, all farmors. Austria comes next. The United States supplies an ever-increasing number of these people who are well to do, and arrive here with a large quantity of effects.

Immigration from Germany shows a decided improvement on past years. Mr. Jones' table gives the German arrivals as follows:--From Russin, 1178; Austria, 471; United States, 435; Germany, 155; Switzerland, 12, a total of 2,251, distributed thus: to Manitoba, 857; North-west Territories, 1,263; British Columbia, 31. The German settlers are reported as having a very large area this season under crop, and that a large number of resident Germans have moved out of the city to Yorkton, the feeling being everywhere jubilant over the outlook.

FRENCH AND BELGIANS.

Our immigration from these sources is fairly satisfactory, and the class of people coming are much to be desired. Mr. Thomas Gelley, one of our French interpreters, has had much to do with the placing of these people. During the fiscal year, 141 souls came from France and were located in Bruxelles, Grande Clariere, ée, in Manitoba,

and Bellegarde and Alum in Assiniboin. Eighty-fivo persons came from Belgium, and have been located at St. Norbert, Deleau and St. Alphonse in Manitoba, and Lethbridge and Edmonton in Alberta.

Our reports from the various places where these people have been located indicate that they are prospering in common with the whole of western Canada.

RUTHENIANS (GALICIANS AND BUEOWINIANS),

The projudice which existed in some minds upon the first immigration of these people from Austria, it may be said, is now entirely dissincted, excert amongst a few implacable persons, who can see no merit in any nationality save their own. Their readiness to assimilate with English-meaking people, and to acquire their language, is as was faced by some, both men and women have in reality helped to fill those most pressing needs of this country, viz., an abundance of labour in the field, the bourschold, and on railway construction. There are now, including this year's immigration, a large number of Ruthenians scattered throughout Manitoba and the Territories, all of whom, considering their small means and recent settlement, have been surprisingly successful, whils the communities, as a whole, have been singularly free from serious or ince or even mislemeanours of the ordinary sort, and have been practically immune from epidemies of disease which the local governments have had to cope with at time anong other settlers.

All those arriving this year with families settled at once on homesteads near their friends, and as they had previously been fully informed about the country by letter, there was no difficulty in locating them. Some went to township 5, range 6 east, and the remainder to older settlements in Manitoba and the Territories. Their distribution is as follows -

Edmonton, Alta	1,252
Rosthern, Sask	575
Yorkton and Saltcoats, Assa	585
Sifton, Ethelbert and Gruber, Man	472
Shoal Lake and Russell, Man	398
Pleasant Home, Man	485
Stuartburn and Grunthal, Man	465
Whitemouth and Brokenhead, Man	376
Poplar Park and Gonor, Man	55
St. Norbert and Cook's Creek, Man	135
Farm labourers	476
Total	5.974

A few Russians passed through on their way to North Dakota, where they had friends. All the Ruthenians, after solvering their quarter sections, set to werk at once to erect houses and to cultivate their land. Mr. Geuik, our Ruthenian interpreter, has been engaged meeting all trains with those people on board, going far east to do so, giving information as to homestad regulations, ée, attending to the wants and correspond neeof old actient, hiring out Ruthenian labourers and servant girls, and sedding them to farmers and others in town and country, and acting as interpreter for merchants doing basiness with these people.

HUNGARIANS.

The Hungarians settled at Kaposvar, Exterhaz, and a few other points, were estimated in 1898 at about 1,000. In 1890, the immigrants numbered 176, and during the first six months of the following year we received 264. Our accessions during the scilled in the Indian Head locality and at Zichydorf, south of Regina. They reported well of their progress, and two flourishing communities of farmers are now established there. During this year a new colony has been started in the vicinity of Duck Lake by Mr. Zoltan Von Kajes. The more recent arrivals have mostly trended to the Whitewood, Yorkton and Prince Albert districts, and, as Hungarians runk high in Europe as agriculturists, they will no doubt prosper when fairly settled in their holdings.

I must acknowledge the kind and valued assistance of Rev. Father Woodcutter and others in connection with these people.

DOUKHOBORS.

In my predecessor's reports, the arrival of the Doukhdors, their circumstances and distribution are fully described, and, as most of them have been resident here for nearly three years, a glance at their progress and condition may not be out of place. The Thunder Hill, Good Spirit Lake and Sand River colonies may be grouped as possessing truits in common and identical opinions. Mr. Harkey, the immigration agent at Swan River, in his report for the fiscal year, states that 'the first-named colony numbers 1,500 souls, and has made marked progress during the past year. The peoplare earning money in many ways, and in a short time will be rich. They have bought many horses, cattle and implements, have 800 acress under crop this year, and are preparing to double this quantity next spring. The health of the colony, on the whole, is good."

The other two colonies, I am able to state, are also in a forward condition. The Good Spirit Lake people have a large crop, have gone extensively into the raising of eattle and horses, and are entirely self-supporting. Many of them have already separated from the community principle, and are now doing for themselves on their own homesteads. Several villages have asked for special brands for their cattle, and it would thus seem that their rigid system, under a growing feeling of security, perhaps, and a just administration of Canadian laws, is seuibly relaxing. The Sand River colony is the more advanced of the two, having a large area under cultivation in some villages from three to four hundred acces—and owning much machinery.

The 'Cyprus' colony is progressing too, but not so rapidly as the others, owing to the exhaustion of their means in Cyprus, though some villages have gone largely into eattle. I may say with reference to their views regarding marriage, that a Bill has passed the territorial legislature making the Doukhobor marriage binding.

The Doukhohors are exceedingly hospitable, giving their best to strangers. They are intelligent and handy in other respects; have constructed several substantial bridges without thinking of asking for government aid; also an excellent forcy, and are now building windmills to make their own flour. Other domestic arts survive amongst them, such as wavring, for which they make their own homs, turning, &c., and show considerable ingenuity. Their focks of sheep are increasing, and many garments are made complete from the untural wool. For the rest, as farmers and producers, there can be no doubt about their success. The villages are all now selfsamporting, and will have grain and cattle to sell this fall. Those, in fact, who know them best respect them most, and consider them a desirable acquisition to the country. Their credit with merchants is established, and their word is as faithfully carried out as a written agreement would be.

The foregoing applies particularly to the Saskatehewan colonics, who are showing greater appreciation of Canadian institutions than the others. It may be added here that in general, the health of all the colonics has been very satisfactory.

I am pleased to express my opinion that only a small number of Doukhobors will seek work beyond their own farms after this season, but will engage exclusively in raising grain and cattle.

I am also glad to report that every Doukhobor who left Canada in 1900 to work in California returned to the country well pleased to remain morth of the international boundary.

I desire to express very sincere appreciation of the work done among these people by our officers and by visitors to these settlements, who have offered good and disinterested advice. I feel confident the results will be highly bencficial and prove conclusively the wisdom of securing this hardy class of farmers for western Canada.

MOLDAVIANS.

In the latter part of April hast a party of Moldavians, of a hardy agricultural stock were settled at the File Hills, north of Fort Qu'Appelle, on homesteads in the vicinity of township 15, range 14, west of 2nd meridian. The Germans of Ehenezer come here under similar circumstances and are now exceedingly prospersons. If these Moldavians have equal industry and per-everance they will in a few years be equally well off. By next spring each of their homesteads will have, besides necesary buildings, several acres in erop. Already their exertions have marked them as an acquisition to our rural population, and they are fortunate in having the guidance of Ar. Donal H. McDonald, the local member of the Territories legislature, who takes a direct interest in the welfare of all new comers.

SETTLEMENTS GENERALLY.

The feelandic, German, Scandinavian, Doukhokar, Ruthenian, and all other settlements are now under the constant inspection of Mr, C. W. Speers, General Colonization Agent, and a comparative estimate can be made as to their progress and circumstances. In consequence of this supervision their interests are protected, useful information or advice is given, and irregularities, where they occur, are readily adjusted. Nothing more on this head need be added here, as these matters are exhaustively treated by Mr. Speers in his report for the fiscal year. It wind work the distribution with a view to the advantageous settlement of new course, suitable distributes are selected beforehand, so that there is now no deday in abain them no matter in what sumber they may arrive

A feature to be noted concerning these alien, settlers is the wonderful expansion of ideas taking place amongst them through a constantly increasing communication with Euglish speaking people, coupled with a growing conception of the productiveness of the country and its great possibilities for themselves and their posterity.

The time of Mr. Speers is very fully occupied the year round, as he has to cover a very large area in the exercise of his duties.

HEALTH.

In the monthly reports of Doctors Corbett and Patterson sent direct to the department, full details are furnished on this head, and nothing further need be said here,

other than to mention that the two most serious inconveniences of the season have been the outbreak of small-pox in some parts of the Territories, and the quarantining of the ss. Lake Superior at Grosse Isle. Generally speaking, the health of the various colonics throughout the interior is good, and any sporadic outbreaks of infectious diseases are by energetic measures speedily stamped out.

Under our present system of health inspection during transit, every new settler is examined on the train by one of these physicians.

DOMESTIC SERVANTS.

Many of those passing through our hands are Galicians, an intelligent class of girls who learn English, and adopt Canadian ways surprisingly fast. It is estimated that over a thousand of them are now in service in town and country, and though, like of they girls, they vary in acquirements and quality of service, yet, generally speaking, they are doing well, and through their intimate association with English speaking families will be of service hereafter in facilitating the assimilation of the Galician people.

Some 40 girls were brought out by Mrs. Sanford this spring from the United Kingdom who were all well placed immediately on their arrival, and are giving satisfaction. This undertaking has been carried out by Mrs. Sanford largely on her own responsibility with such assistance as I could give; her thorough experience may be of great service hereafter in inducing many other desirable domestics to immigrate to this country, as there is real need of many hundreds of good domestic servants in eity and on the farm at good wages.

FARM HANDS AND EMPLOYMENT BUREAU.

During the fiscal year 905 incomers applied for farm employment at this office, 470 or whom were English, principally young mea, 87 Scoth and 44 frish, the remainder being mostly German and Scandinavian. In the same period 498 applications were received from farmers in the province and territories for experienced hands, and 496 for inexperienced. The applicants for farm work, therefore, had no difficulty, as a rule, in procuring employment, and as they were generally of a good class, well set up, intelligent and healths, few complaints have been received as to their conduct or efficiency.

Not included in the foregoing is a very large number of Galicians, Doukhobors and others who passed through this office to various employments obtained for them, mainly on the railway, though of course a good number went to farmers. These men, with few exceptions, have proved to be good workers, and have given general satisfaction to their employers, though demanding the same rate of wages as any other nationality doing the same work.

Under direction of the minister the various agents of Dominion lands throughout the west have also beeu of much assistance in their respective offices in bringing together the farmer and the new comer seeking work.

DELEGATES.

During the past year 262 American delegates made an extended examination of the province and territories, and upon their return to Winnipeg, without exception, reportcl in the most favourable terms their impressions of the country. They were not only

delighted but enthusiantic as to the future of western Canada, and stated their intention of spreading the truth throughout their respective states, and of themselves returning to settle in the country. They came mainly from Nebraska and Kanaaa, the two Dakotas, Minnesota, Jowa, Indiana, Ohio, Illinsis, Wiscenain, Missouri and Mehiganthe great agricultural states of the American union. These delegations are engineered by our agents stationed in these states, are next and attended by our large staff of land grides outside Winnipeg, and are of great effect in englishening western American farmers and drawing their attention to this country. It may be added that the correspondence of the great body of American framers already settled here is also having a marked influence upon emigration from those states. There is, in fact, no immigration stimulus more powerful than the favourable correspondence of men who have presspread in the country, which correspondence of Have reason to believe is rapidly increasing and already has had a noticeable effect.

SALES OF LANDS.

In preceding reports the commissioner has included the yearly sales of land by the Hudson's Bay Company and the Canadian Pacific Railway Company, the greatest inadholders in western Canada aside from government; this as exhibiting the annual inerease in the volume of transactions and as an index to the extension of settlement. The Hudson's Bay Company has sold at least \$100,000 worth of land, and probably the Canadian Pacific Railway Company has sold even more. The price obtained for Hudson's Bay Company lands averages as usual about \$5 per aere, against 64,593 acres for \$221,089 for the previous calendar year.

The total sales of Canadian Pacific Railway lands for 1899 were 416,807 acres for \$1,327,667; for 1900, 431,986 acres for \$1,377,715.

WINNIPEG DISTRICT VACANT LANDS.

The demand for these lands is on the increase, and the sales for the first six months of 1901 exceed those of the same period in any former year. Mr. W. Langmuir Watt, who manages them in the interest of all concerned, states that this year there has been a very brick demand, and a large quantity has changed hands. The Yacant Lands Committee has formished a new and useful hanging map of the district, showing the lands for sale plotted out in red, also a Winniper pampliet printed in Norwegian, and these are being distributed from this office and through our l'Inited States agneries.

The demand still keeps up, and a good harvest will make this the banner year of the Winnipeg district. Americans have bought largely of these lands, their declared intention being to place settlers on them, so that if this purpose is carried out, these sales will be of immense value to the eity and district. A new list should be prepared by the Vacant Lands Committee for distribution early next spring.

IRRIGATION IN SOUTHERN ALBERTA.

The main irrigation canal constructed by the Canadian North-west Irrigation Company connects the source of supply at 8: Mary's river with Lethbridge by a main 115 miles long. Our travelling agent at Lethbridge, $M \oplus$ Gray, repeats that 'although the undertaking is only in its infancy, some have already purchased claims along this canal, and in a few weeks are able to show a promising errop of ten or fitteen accessed;

and it is expected that in the near future all these irrigated lands will be settled by prosperous farmers.¹ In a letter received from Mr. McGrath, the manager of the company, he states that 'the irrigated acreage sold to June 50 last amounts to about 24,000 acres. The population,'he adds,' of Stirling and Magrath settlements amounts to about 1,200?

The rainfall this season has obviated the necessity for extensive general use of the water in the irrigation canals.

RAILWAY EXTENSIONS.

The necessity for increased transport facilities by rail still exists, and demands are being made by various communities in the interior which it is the desire of all to see met in a just and liberal spirit.

With increased railway mileage the work of the department will be materially assisted, if the prospects for a largely increased immigration are realized.

RAILWAY COURTESIES.

I have much pleasure in stating that in the conduct of our immigration business much of its success is due to the action of the railway companies in affording satisfactory transportation facilities. I have invariably found them ready to render assistance, and by prompt transport and delivery of stock and effects facilitating speedy access to the land.

CROPS.

A much larger area is under crop in western Canada than ever before, that in wheat in Manitoba alone being placed at 2,011,835 acres, an increase over last year of 554,439 acres.

Of onts there have been sown 689,951 acres, 191,009 of barley, 20,975 of flux, and a considerable area in ryc, pease, corn and buckwheat. Brone grass promises to be largely cultivated, there being over 7,000 acres laid down. The potato acreage is estimated at 24,429, and roots at 10,214. In the Territories last year, where the rains were abundant, the average yield of wheat from threshers' returns was 20°70 buckels.

It is a favourite assertion of land agents and other persons inter-sted in the vestern States, that western Canada is more subject to drout than are states to the south. Experience gear after year has shown that the facts are the other way, a truth never better exemplified than by the elimatic conditions in both contributing this very senson. No part of western Canada is suffering from lack of moisture, whils many of the western states are threatened with a total failure of their principal crop from this cause. Western Canada is no more subject to drought than any other part of the American continent. Certainly the prospects of an abundant yield were never brighter in this country than at present.

CATTLE.

The following statement is a sufficient index of the progress of stock-raising, to which any extended reference is unnecessary, though many thousands of cattle have

been handled by other dealers who have not favoured me with a statement. The grass of the Canadian west is at its best this second, and cattle are shipped from the range for export to Great Britain. The nutrition in our native grasses is proverbial and a wonder to atoek-raisers.

There appears to be a noticeable tendency to discard large herds of 6 sorub $^{\circ}$ cattle, and to breed smaller herds of good grades, that keep their flesh and appearance after the long journey to the British markets.

Messrs, Gordon and Ironsides inform me by letter, that from May 1 to D symbol 31 of 1900 they bought eattle out of the following districts, which they classify as per Canadian Pacific Railway main line and branches, viz. :--

	Heal.
Emerson branch	1,076
Deloraine branch	9,175
Glenboro and Estevan branch	2,130
North-western, Winnipeg to Yorkton	9,890
Main line, Portage la Prairie to Qu'Appelle	2,995
Main line, Qu'Appelle to Medicine Hat	7,394
Main line, Medicine Hat to Calgary	18,400
Prince Albert branch, including Battleford	7,510
	52 570

Of this number 42,700 head were shipped to Montreal for export. In 1898 their purchases were 26,900 head, and in 1899 30,300, showing a renurkable increase in two seasons.

The Canadian west rightly maintains its position as a stock-breeder's paradise.

HORSES, SWINE AND POULTRY.

The breeding of horses is rapidly increasing, there being now over 20000 at the ranges in southern Alberta alone. They have almost, if not quite, recovered thir oldtime value, and the demand is now greater than local breeders can supply. It is reported that whole train-local left Leftbridge, realising handsome prices.

The raising of hogs is also making headway. Last year Manitoba alone supplied for all purposes about 25,000 hogs. Yet there is a good market for mony thousands more to supply the packing-houses in Winnipeg, one of which is being doubled in capacity this year.

In poultry-raising, there is a slight falling off in turkeys, but an increase in grees and chickens, of which, in round numbers, 92,400 and 72,000, respectively, were reardlpats eason. This is far from supplying the local, not to speak of the Britch Clumbia and other markets, and much money goes out of the west for poultry, which might be kept in the country if farmers generally gave this branch of produce the attention it descrete.

DAIRY PRODUCTS.

I have as yet received no data from the Territories, saving a statement from Mr. Marker, superintendent of creameries, that the output of creamery butter for the fiscal year was 301,271 pounds. The quantity of dairy butter was not obtainable.

Mr. Murray, the Manitoba dairy superintendent, has furnished me with statistics for that province. The creameries and cheese factories opened this season generally in the first half of May. Last year's success has lead to an increase of hords, and the pastures are in fine condition. There were but five creameries prior to 1805, now there are twenty-innic in operation, with the prospect of a considerable addition next year. The output of dairy butter last year was 2083,220 pounds, which sold at an average of 14 45 cents per pound, and of creamery. 1264,511 pounds, which sold at 10 915 cents. Of cheese (factory), the output was 1,021,238 pounds, sold at 10 92 cents, the total value of all being 8643,901.06, an increase of 8173.432 over the previous year.

We may look for like results in the Territories, so that before long western Canada will take high rank as a dairying country. After supplying local demands the market at present for our dairy products is British Columbia.

SEED GRAIN.

At a few points in Manitoba and the Territories applications were made for the advance of a small quantity of seed-grain to those isolated cases of loss from hail, and after proof of loss and need, sufficient grain was advanced to seed the land proven to be ready for eroor. This was judiciously handled by our officials, and liesn is neach easy were taken upon the recipients' lands, payable at the end of this year, so that advances are fully secured. There can be little doubt, with the prospect of an abundant harvest, that these liens will be almost, if not fully, repaid out of the proceeds of this season's erop.

PLOUGHING MATCHES.

Ploughing matches now receive much encouragement, the municipalities and individuals furnishing the prizes. They take place about the month of June, and a dozen of them have already been held in Manitoba. The ploughs used are mainly gang and sulkeys, with an occasional match of walking ploughs.

Interesting experiments with a newly invented rotary plough are eagerly anticipated by large progressive farmers.

DRAINAGE AND BRIDGES.

An elaborate system of drainage, necessary in certain districts, is being carried out in the province of Manitoka, which will open many tracts of overflowed land to agriculture. Survey parties are this year opening drainage ditches which owners of land have petitioned for. Seventy thousand acres have been drained on Mosquito creek, in the municipality of Franklin, and measures are being taken to drain the Rosser district and westward, securing from overflow probably 200,000 acres there. The Big Grass marsh, covering a large body of land north-west of Portage la Prairie, is also to be dealt with at an early date. These are the most notable propositions, which it is to be hoped will be speedily carried out, as there is an increasing demand for this charactor of land, at enhanced prices.

No great higher, were affected from prairie or forest fires during the past year. Some bridges, however, were affected by the heavy spring freshets, and in future it has been suggested that all important bridges should be built of iron or strue. It is to be hoped that the several local governments will make the largest possible appropriations for these most important needs in developing the west.

EXHIBITS.

Our agents in the United States have been furnished through this office with an ample supply of grains, graness, sections of soil and blocks of coal for exhibition by them at the great agricultural state fairs last summer and autumn. Besides these supplies to our agents, samples were forwarded upon application to private individuals in various States, who made good use of them, I believe, at local fairs in their several localities.

Over 5,000 American visitors attended the Winnipeg fair on Americans' Day, and those presenting themselves at our information bureau at the fair were freely supplied with literature, which has undoubtedly helped towards seeuring the increased immigration of United States eitizens apparent during the fiscal year.

WINNIPEG IMMIGRATION HALL AND OFFICE.

Notwithstanding the increased convenience and shelter for immigrants at the East Selkirk building, the demands upon the accommodation of the hall here are very great, and are almost continuous. Large numbers of people daily visit the office on all conceivable kinds of business, and innumerable inquiries upon a great variety of subjects are answered by the staff of officials.

IMMIGRATION HALLS AND TENTS ELSEWHERE.

Halls have been creeted by the government at Dauphin, Yorkton, Brandon, Ic-zina, Rosthern, Prince Albert, Calgary and Stratheona, and buildings have been rented at Minnedosa, Birde, Portage la Prairie, Qu'Appelle Station, Lethbridge, Red Deer, Lacombe and Edmonton. One or two of these may occasionally be overcroweld, but upon the whole immigrants are well cared for. In addition, I have distributed eommolious waterproof feuts at other points, viz., at Sifton, Swan River, Osler, Hague, Saskatoon, Duck Lake, Almenda, Bellegardo, Milet, Maedeed, Uolds, Didbury, Ponoka, Wetaskiwin and Ledue. I think that the existing accommodation will be found suffcient, at all events for this season. Nevertheless, the department may be called up on at a moment's notice to provide shelter at some new point where immigration may have newly started.

The calling in and redistribution of tent accommodation requires continuous carto provide real need of shelter wherever immigrants may from time to time arrive on their way to new locations. By many au immigrant with a large family, without means to lodge them in hotels, this provision by the department is much appreciated.

TOWNSHIP RECISTERS AND MAPS.

As usual, our land indexes, showing the identical homestends entered for, and township plans, have been in doily request, and are of much assistance to hand-seekers, while the demand for maps is incessant. There is a very good sectional map of the province for zeneral circulation.

CORRESPONDENCE.

The number of letters received at this office during the year is 16,503, and those despatched numbered 17,235, a total of 33,738. During the year under review, letters

of inquiry have been received from points so far apart as the Falkland Islands, the Soudan and Patagonia, an evidence, if nothing more, of the widespread repute of western Canada, and of a desire for definite information, stimulated, no doubt, to a large extent by the reputation achieved in South Africa by the Canadian conting ruts.

In addition to correspondence, immense numbers of maps and descriptive pamphlets, freely supplied by the department, have been mailed to all quarters.

RECORD OF ARRIVALS.

It may be interesting to note that an exact record is kept by name, nationality, &e., of every new arrival reported to this office, a result obtained only by the adoption of a system of checking by agents travelling on trains.

SYNOPSIS OF REPORTS OF IMMIGRATION AGENTS ON TRAINS.

J. M. McGovars, travelling immigration agent, Port Arthur, reports that he has this summer been on the road mainly all the time. If is duty is to meet trains about 150 miles east of Port Arthur, check names, nationalities, proposed occupation and destination of immigrants, and report (including westbound arrivals by steamory) daily to this office; also to see to their treatment, ascertain their wishes, and give all necessary attention, advice and information about changes of ears, routes, &c., which is constantly required by use concers. The cleanliness of ears, a supply of good water and of previsions purchancelube at reasonable prices, are important matters to immigrants en route.

Last year's immigration from the United States via Port Arthur was most satisfactory, and, through the activity of our agents, reports of delegates and settlers' correspondence, it is likely to assume very large proportions. Arrivals from the older provinces were, in numbers and class, about the same as the previous year, with the like stock and effects. There has been no serious disease among the people on route.

D. W. AGNEW, Moose Jaw, Assa., reports 3,888 souls and 502 cars as having crossed into western Canada at Portal, between February 5 and June 30 last.

Very few of these located along the 'Soo' line, the settlers there for the fiscal year having been mainly Canadians, of English, Stoth and Irish descent, together with a number of Swedes, Norweginas and Germans, all of whom appeared to be good settlers, and the majority to be in good circumstances. They were distributed as follows: Pnsqua and Mosce Jaw, Si ; Drinkwater, Si Rouleau, 23; Milestone, 11; Yellow Grass, 6; Weyburn, 9; Estevan, 73; North Portal, 9; in all, 217 souls, with their effects in '54 cars. Sould eductiou, however, must be made from the Estevan, Pasqua and Mosce Jaw figures, for a number of immigrants who subsequently went to Balgonie district. The soil along the 'Soo' line is very rich, varying from snady loam to heavy olay, necording to locality, and the crops are looking well. The sinking of supply wells in the centres of townships by the Territories government and the Canadian Pacific Railway Company, if such co-operation could be obtained, would be much appreciated. This, I considuel for inportant matter, on account of the remarkable fertility of the region otherwise, which will justify a liberal expenditure in sinking test and supply wells at central points.

S. Gavi, Lethbridge, Alta, reports the number of settlers from February 5 last to the end of June, from the United States via Coutts, and by highway between Maple Creek and the western boundary of Alberta, as 571 soils, and the value of the stock, &c., they brought in as \$121,0-8. The nationality is as follows: 581 Americans, 54 returned Canadians, 69 English, 32 Seetch, 5 Tirsh, 4 Webh, 10 Germans, 11 Austrians, 14 Americans, 14 Americans, 14 Americans, 14 Americans, 14 Americans, 15 Americans, 14 Americans, 15 Americans, 15

10 Scandinavians, 13 Danes, 65 Finlanders, 2 Russians and 5 French. Of these, 343 went to the Mormon settlements at Cardston, Stirling and Magrath; 253 to other parts of southern Alberts; 173 to northern Albert, along the Calgary and Edmonton Rail-way; 52 to British Columbia; 1 to Saskatchewan; 35 to Assiniboia, and 14 to Munitoha.

He reports the immigrants to be sturdy, industrious people, with sufficient capital and intelligence to insure success.

Settlers in southern Alberta are delighted with it, and it is exp-ted that immigration there will largely increase. Fall what can be grown successfully, as well as all other grains, roots and vegetables. The soil is also admirably adapted for sugar-best culture, and before next season it is expected a large sugar factory will be erected at Brandly, a station on the St. Mary's branch of the Alberta Railway, an undertaking eagerly looked forward to by the settlers. Mr. Gray's information regarding irrigation at Lethbridge is embodied in the paragraph of my report descriptive of this ent.price, and need not be repeated here. On the vast and well-grassed areas of southern Alberta, he states that there are now at least 20,000 horse, 145,000 cattle and 20,500 shep.

The collieries at Lethbridge, managed by the Alberta Railway and Coal Company, he reports as employing 400 men at the pits and 250 in the railway department, the output of coal for the first six months of this year being, he is informed, 863.666 tons.

From the prosperous condition of things generally one can forecast a largely increased immigration during the coming year.

SYNOPSIS OF REPORTS OF IMMIGRATION AGENTS IN WESTERN CANADA.

D. Monkisov, East Schlich, Man, reports that the hall there has accommodated during the year 5,290 Gernan and Galician immigrants destined for points westward. The hall has been greatly improved by whitewashing the walls and painting the woodwork, thus relieving its appearance. Other desirable repairs and improvements including a fine root-house have been effected.

The office and storeroom, he adds, have been made much more convenient and comfortable.

WILLAM BRAUN, BRANDON, MAN, reports a satisfactory year's immigration to Manitolo. American delegates should be invariably taken, he thinks, to the Brandon Experimental Farm, as here they can obtain a wider variety of culture samples showing the fertility of the soil and the capabilities of the climate than upon individual farms. He considers the institution a great stimulus to immigration, and that owing to the visits of Americans much land in the locality has changed hands. They see what the soil will produce by being properly trated.

Path. Woos, Sifton, Man., reports having guided during the year 150 settlers, and lawing obtained temporary employment for over 200 settlers, a fair proportion of them being girls, who went to all parts of the province as domestic servants. He also has acted as interpreter at the Dauphin land office, reporting upon land entries, ennellations, valuations of improvements, &c. He spent some seven weeks beside examining the country between Ethelbert and Fisher's Siding to ascertain the area available for settlement, and the most desirable centres.

Galicians settled two years or more are doing well, and as a rule are contented. Cattle are well kept and of superior quality. The people are recognizing the need of schools; two more public schools through his instrumentality are now established amongst them. Numbers of Galician children attend the other older schools with Canadins. Ite suggests that newly surveyed townships should be placed in the market as soon as possible after survey. It was owing to searcity of surveyed land that squatting in many cases took place.

25-ii-9

1-2 EDWARD VII., A. 1902

HUGH HARLEY, Immigration Agent for Swan River, Man., reports a steady influx of settlers during the past year, principally from Ontario, England and the United States. Arrivals from the agricultural counties of England, Scotland and Wales with capital and experience have been numerous. There are about 9,000 acres under crop this year, and looking well, so that much grain will go out after harvest. Two municipalities have been formed, so that roads and bridges will be attended to. The demand for land keeps up. There are many homesteads available for mixed farming and abundance of good railway lands. Besides many sales of Hudson's Bay Company lands. 15,540 acres of other lands have been purchased. A large number of new buildings have been erected on farms and in the three villages, and signs of prosperity are seen on every side. There are now six post offices in the Swan River Valley, 15 school districts have been formed and new school houses are being built. The timber is splendid, the water good, the soil excellent, throughout the whole Swan River Valley. There are now five saw-mills, a planer and a sash and door factory at work. A number of the first settlers are entitled to patents, and in some instances from \$1,800 to \$2,000 have been offered for these new farms and refused. He reports the immigrants of this year to be of a very superior class. The majority have means, and all have at least enough to give them a start. Thoroughbred stock is being brought in largely, 127 car-loads of stock and effects arriving during the year. The government tents have been of good service to many new arrivals. He concludes by describing the condition of the north eclony of Doukhobors at Thunder Hill, which will be found elsewhere referred to in my report.

C. J. THOMSON is our immigration agent at Virden. His operations have included the conveying of French immigratus from Quebee to Antler station on the Dipstone extension en route to St. Maurice, a settlement formed a few years ago in the Reston district; the driving of land seekers from Scolland and the States at different times to various localities, and facilitating their homestead entries; waiting arrival in Winnipeg of Belgian delegates; placing experienced Scotch farm hands with good farmers; attending Winnipeg exhibition and districtive literature; assertiating for the sending of Doukholors and Galicinats to different districts.

He reports the young men sent to him in April to place with farmers as prospering. He has always done his best to get immigrants to take up land in the Wirden district rather than go a long distance, but adds that it is not easy to get men in search of homesteads to purchase land. Much depends upon what money they have brought. His report recommends that lines be ploughed where needed or corner posts put up, so that any one can locate the quarter-section he wants. At certain seasons farmers would be willing to do the work at reasonable prices.

J. S. CREAR, Yorkton, Assa., reports immigration into his district during the past year as harper than usual, especially from lowa, Minnesota and the Dakotas, and mainly settled in the Beaver Hils district. Some German families from Nybraska joined a Russian German satethement in the Wallace district, and in spring fort Galician families arrived and settled north-east of Yorkton in the Crooked Lake and Bear Hills colonies. Twenty ears of immigrant effects came to Yorkton from the States and eleven from Ontario, and all the parties mentioned had more or less means, and are delighted with their change of habitation. Galicians and Doukhobors got employmont till late in the season with farmers, railways and constructors, and earned much money to tide them over the winter. He reports fifty per cent more land under erop this year than last, with indications of a heavy and early harvest. All industries comnected with the land are increasing and the whole district is prosperous, with no sicknees to report amongst the many nationalities settled there.

C. STEMSHORN, Regina, Assa., reports 995 arrivals there for the fiscal year, many of whom settled in the district, whilst others went north to Prince Albert. The nation-

alities were as follows:--531 English, 356 Germans, 13 Seandinavians, 49 Galicians, 34 French, and 12 Russian.

The hall was occupied, counting the time of use by each, for 7,007 days. Most English and Germans, from the United States brought one or two cars of stock. The new comers pulled through the long winter better than was expected, only a few who came in November requiring temporary assistance. He notes that no Doukhobors came to the district for employment this assons as they formerly did. He states that the Germans this year were well supplied with means; some of them bought and paid from 81,500 to 82,000 for improved farms.

T. COPLAND, Sakkatoon, Sakk, reports satisfactory progress in his district, and the promise of a great harvest, more than double that of last year. Cattle and pigs area largely raised, and new houses and barns are going up in all directions, and settlers are planting trees round their dwellings—a surve sign of satisfaction. If estates that inquiries from the various United States are greatly on the increase, and that delegates who examined the district were enthusiastic in parise of both land and elimate.

GERMAND Exs. Rosthern, Sask., reports on German, Galician and other immigration. Large numbers began to arrive in spring, all were farmers and are now located or hired out. About six train-loads of German, Americans from Kansas, Minnesota, Nebraska and the Dakotas, first class settlers with means, and two train-loads of Galicians and Hungarians also enne in spring, who are placed on good land. Mr. Ens has done much work in the way of correspondence in scentring employment for immigrants, taking charge of numerous delegates, and helping the Doukhobers settled west of Rothsern to locate their homestends so that their entries could be made. He reports them and the Galicians as very prosperous, their crops wonderful—some winter wheat amongst the latter promising 35 bushels to the aree. He calls attention to the attractions of the unsettled Hoods and Beaver Hill Creek district, where the soil is first class, water plentiful and timber within easy reach. The duties Mr. Ens is called upon to perform cover a very large territory, and his time is very much taken up.

L. B. COCHERAN, Medicine Hat, reports immigration much in excess of last year, and a desirable class with fair means. The Germans in the Joephaburg district are good citizens, happy and contented and well to do. The rainfall this spring is greater than since 18-84. He report losses to stock last winter as nominal, the calf and lamb crop being exceptionally good. Stock prospects were never better, shipments for six months ending June 30, being 1,633 head. Mr. Cocheran has placed sixty men with ranchers during the year at fair wages, visited several parts of his district and found all settlers satisfied, and looks for a very large immigration next year.

JAMES WINN, Calgary, Alta, reports a large correspondence from Great Britain, the United States and Canada, asking for information as to the advantages his district offers to new settlers. Delegates and others who visited the hall wer: surprised at the samples of grain and grasses on view there, having been led to believe that the recion was fit only for ranching. On the contrary, he says, mixed farming has of late years been very successful, and fully compensates farmers for their labour. Many thoroughbred cattle have been brought into the district during the year, and abeep ranching has increased. Horse ranches are profitable. Cattle shipments were above the averange, and young cattle throughout the district are in prime condition. Range grass is abundant, hay will be amply secured, and brome grass is an extraordinary roop, and will supplement other grasses in the future, many settlers seeding down increasingly this grass every year.

During the fiscal year, 2,675 immigrants were afforded accommodation in the immigration hall at Calgary, but he estimates that 13,425 immigrants landed at Calgary during the time who did not pass through the hall, proving the necessity of adding at least 25 per cent to the reported returns. The value of stock and settlers' effects which passed through the eucloms at Calgary for the current year was \$416,210.

25-ii-91

1-2 EDWARD VII., A. 1902

THOMAS BENNETT, Stratheona, Alta., reports the arrivals of immigrants at his agency during the past year as 4,463, as against 3,123 in 1899, and 2,505 in 1898. They consisted of 2,191 from Austria, 1,390 from the United States, 598 Canadians, 225 Germans, 59 British.

The settlers, from reports he has received, are prospering. Already, he says, 852 men have gone to work on the Canadian Pacific Railway from his district, 785 of whom were Galicians.

The incomers from the United States are, upon the whole, a well-to-do class. Many bring stock and implements and buy improved farms, if to be had. Canadian and German immigration has increased.

Mixed farming is a success, and good prices are got for earthe, horses and hoge, so that farmers at a distance from stations can do about as well as those near to it. Homestead entries are far in excess of last year, and settlement is extending fifty to seventy-five melles east of the railway, the land being excellent and adapted to mixed farming. American delegates were loud in praise of the country, and astonished at its produces, predicting an immigration to the district of humches of thousands from the United States. He reports four large gold dredges in successful operation on the Saskatchewan river, and the number likely to be increased next season.

C. W. SUTTER, Edmonton, Alta., reports that he spent two months last winter in Indiana and Kentucky, working in conjunction with Mr. Holmes, our immigration agent at Indianapolis. He visited a Kentucky German and Swiss colony which he believes may be induced to emigrate, one family, in fact, having since settled in Alherta He interviewed many Dunkards in Indiana, and visited their leader and adviser, Mr. Frank Fisher, who finally decided to visit this country and see for himself. He came last month (June) with Mr. Holmes, and was so satisfied, that these Dunkards will probably in future emigrate to the North-west. The Galicians are making good settlers, extending cultivation, increasing their horses and cattle, and in every way improving their condition. Their purchases of implements last season, including two threshing outfits, amounted to over \$60,000. They are also bonusing a proposed grist-mill in their midst, and their prospects for this season are very bright. The chief feature of the last year's immigration is the large influx of a desirable class from the United States. They are experienced, English-speaking western farmers, he says, who understand our institutions. The Edmonton hall is continuously occupied by a succession of the best English-speaking settlers. Aside from accessions which did not come in contact with officials, the approximate immigration to the large district contiguous to Edmonton for the year is, of English 613, Scotch 684, Irish 346, Germans from Austria and Russia 1,284, Scandinavians 1,734, Belgians 146, Galicians 623. United States 5,389, Canadians 2,285, other countries 229; total, 13,333.

SYNOPSIS OF REPORTS OF LAND GUIDES.

C. TOMLIN, Dauphin, Man., reports the number of immigrants who used the hall there since the beginning of last September, when record commenced, as 441. About 300 others arrived who stayed elsewhere. With few exceptions, their appearance was good, and many of them had considerable money. He reports considerable work in lumber camps for canable men.

JORN MEXZES. Shoal Lake, Man., reports that he has been in close touch with the Galicians since they first settled in the Shoal Lake, Rossburn and Stratheliari districts. There are now nearly 1,700 souls comfortably settled there, with fairly good buildings and homesteads, and apparently contented. The men work in spring and summer with our farmers, and in winter cut freewood, which they sell at good prices to settlers to the south of them. The young girls find homes in private families and boarding houses, and in nearly every case have turned out well, earning, some of them, from &100

to \$15 a month. They take pride in their appearance and dress, and look much like other girls. Some of the men have a mechanical turn, and have made their own wagous and sleighs, rule and ancient in style, but serviceable. Their cattle wintered in good shape. There will be lots of work for them this season, and he thinks that when these people get a solid footing they will make good and useful citizens.

W. H. McDuctan, Reston, reports that the district westward to the 'Soo' linehas filled up rapidly during the past three years. Generally spacking, the settlers coming in were a good thirfty lot; two-thirds were Canadiana, and the balance English. French and German. The lands selected north-west and south-west, when ploughed and the stones removed, take on a much improved appearance, and the values are rapidly increasing in this locality. Mr. McD-ugall states that there is not an available homestend within a number of miles of Reston, but there is land for aslo on very reasonable terms, and he believes that both the poor and the rich man will succeed in his district.

H. WHITLOCK, Estevan, Assa, reports twenty-eight actual settlers for the year, besides numbers who have entered for homestendis, but are not yet residents. Crop prospects were very promising, and rain abundant. Water is found in his district at a depth of from teu to twenty fect, and coal is plentifield. He thinks land-seckers should be directed to Estevan, as this and the Mosee Mountain settlements are only about twelve miles apart, and the secker can find homesteads by diriving eight or ten miles from there, whereas, otherwise, he has to drive from thirty to forty miles. He estimates the erop area at 1,100 acres.

J. S. Gnaxr, Osler, Sask, reports the arrival at that point of 46 immigrants from Minnesota and 101 from Manitoba. They are nearly all Mennonites, whom he dcscribes as clean, thrifty, industrious and, in most cases, well-to-do, many of them bringing in two to three car-loads of settlers' effects, and money enough to crect comfortable and, in some cases, extensive buildings. He reports sufficient government land to accommodate 100 homestenders as still available within ten miles of Osler Station. Though some sections of the locality are passed by as stony, they are in reality choice farm lands.

A. E. GUINN, Melfort, Sask, reports beginning duty about May 25 last by showing prospective settlers the lands in the Carrot River district, particularly the Willow Creek and Leather River country. Subsequently, in June, he convoyed land-seckers from Kansas, U.S.A, Ottawa, Ont, Carberry and other places in Manitoba, through portions of the district, being engaged on this duty nearly the whole month.

The necessity of a land guide at this point, so far east of Prince Albert, indicates very plainly that sottlement is spreading over the Territories at a very rapid rate.

JOSEPH M. SMITH, Red Deer, reports having taken over 300 people through that country during the fiscal year.

During the year twenty improved farms, 100 Canadian Pacific Railway, 60 Saskatchewan Land and Homestead Company, and a few Hudson's Bay Company quartersections have been sold in this district. The ranching industry of Red Deer is now equal to that of any other district, crops look well and hay most promising.

Coos MEYER, Ponoka, Alta, reports having taken about 700 persons to land during the fiscal year, of whom 60 were of foreign birft and 105 of foreign extraction. Canadians numbered 37, and 400 were Americans, of whom 113 came from Norbaska, 66 from Iowa, 50 from North Dakota, 20 from South Dakota, 8 from Montana, 12 from Illinois, and 35 from Ohio, and 100 nondescript. Of the whole number, 5× were delegates, and the remainder homesteaders and land-seekers. The district is pretty thoroughly settled for twenty miles east and west of the ruliway, the Canadian Pacific Railway lands being disposed of for a considerable distance, and the Indian reservewell sold out.

1-2 EDWARD VII., A. 1902

J. N. BURDER, Lacombe, Alta, reports 22,000 acres of Canadian Pacific Ruilway land and 3,000 acres of Hudson's Bay Company land sold during the past year in that district, in addition to 19,300 acres homesteaded, the immigrants representing about 2,000 souls. About 100 families are settling on land near Gull lake and Buffalo lake, which should be surveyed and opened for entry at once. He thinks this land the cream of the district. The new immigration hall has been occupied at times by as many as eightly or ninety English-speaking people.

SYNOPSIS OF REPORTS FROM DOMINION LAND AGENTS.

The newcomer is immediately brought in contact with these agents, and I can bear testimony to the willingness with which these officials have added to their ordinary duties, by the giving of information and useful advice that a newcomer really needs. To the efforts and interest of these land agents must be credited a fair measure of the successful work of this branch of the department during the past year.

The following extracts will be of interest :--

L. J. CLEMENT, Brandon, Man., reports that entries have been made chiefly in townships 5, 6 and 8, ranges 29 to 34, west-north and south of the Pipestone extension of the Canadian Pacific Railway.

The class of settlers was above the average, many experienced farmers with large means, chiefly English, Canadians and Americans. Cancellations are yearly decreasing —an evidence of prosperity—and farmers are buying contiguous lands at high prices. Creameries are increasing, cattle and horses sell readily at good prices, and harvest prospects the brightest for many years.

JOIN FLISTER, Minnelosa, Man, reports a considerable increase in homestead entries in his district during the past year, also extensive purchasing of lands from the provincial government, railway companies and other corporations. The great want of his district is more settlers, in order that municipal traxition may be reduced, schools and churches be better supported, and social intercourse extended. Rain has been abundant, and the crops are promising the largest yield ever known. The quality of horses and cattle is steadily improving, and the trade growing, so greatly indeed, that stockers are scarce, and are being imported from Ontario. The creamenties are propering, and will exceed last year's output. Dairy work is receiving the attention its importance deserves. Mr. Flisher looks forward to the most prosperous season known.

F. K. HERCHMER, Dauphin, Man., reports that the Canadian Northern Railway Company and Hudson's Bay Company have sold largely, but operations have been mainly confined to the older settled parts, where high prices have been obtained. Good land is now largely taken up and fresh surveys arc required. Hc reports a large tract east of the district as desirable land, and some surveyed townships near Lake Dauphin contain some settlers. Hc suggests improving the trails and roads. Increased railway transport, particularly from Gilbert Plains, helped producers last year. Oats were a good crop, and brought good prices, the demand exceeding the supply. Barley was a small but good crop, and roots and vegetables perhaps better than usual. Cattle, hogs and poultry are in great demand. Crop prospects are good. The Swamp Lands selections have lessened in considerable measure the lands available for settlement, and some damage was done by fires in the wooded parts, but not as in former years. He notes a steady improvement, new houses, barns, &c., all through the district. Drainage is of great importance, and a comprehensive system, with government aid, is required. Large areas could be recovered for settlement this way. School districts are forming as requirements call for them, and churches are being built in all the centres of population.

W. C. DEBALINHARD, Yorkton, Assa., reports the various settlements of Hungarians, Poles, Germans, French, Danes, Icelanders and Dutch in his neighbourhood as doing

well, without exception; also, 'that the grain erop in the Doukhober settlement is very fine, and they are making grant progress. Their cattle and horses are particularly well looked after, and are fat and in first-class condition, and their villages are well and orderly kept.' The Galicians, so far, have the advantage over the Doukhobors through being longer in the country. Their grifts after domestic service, and men after a year's work in town, return home speaking English. Immigration from the United States is large and the class good. There is every prospect of the largest erop ever taken off in the district, in both hay and grain, the increase in acreage being 30 per cent over last year.

K. CLAUDE KISHY, Alamecha, Assa, reports a winter without severe storms; cattle came out well, and the outpook for crops the most favourable on record, wheat promising to average 25 bushels to the area. Still plenty of first-class land in the district, but nothing to speak of within eight to ten miles of the railway. This year's settlers are mainly young Canadian farmers from Manitoba and Outario, also a large number from the United States, who have taken land and have ample means, and about twenty German families from Russi and Austria. The latter, settled in township 4, range 6, west second meridian, have sufficient enpital to secure a fair start. The country between Mose Montain and Weyburn, and about Estevan and Bienfati, is being rayidly taken up, but large trates are still open in the district, with splendid soil, good water and wood re coal within easy distance.

JOHN MCTAGGART, Prince Albert, Sask., places arrivals in his district at 2,000 souls, the number of homestead entries exceeding that of any previous year.

Last year's crop was excellent, and this year's still better—a growth phenomenal. Every one hopeful and contented.

R. V. Cunsuotar, Battleford, Sask, reports that the year's immigration to his district is not to be measured by the small number of entrics. Numbers have come in and got employment, who, having gained experience and some means will start for themselves. The farm productions of last year were far above the average, outs being so excellent that they were hauled 95 miles in wagons for seed. The spring was late and wet, but crops are looking well. The prospects are a harvest equal to last year's. The winter was not severe, and eattle came out well. The settlers are eagerly awaiting the advent of the Canadian Northern Railway, and with a view to it, farming is beginning to rival ranching, and intending homesteaders are on the alert. On the whole, he reports the district to have much more than held its own during the past year. Contentment pervades the community, and thrift and enterprise are more manifest than for many years.

J. R. SCTUERLAND, Calgary, reports that his district has received a fair share of the large immigration into Alberta, the majority of the settlers going north and the remainder south of Bow river. The homestead entries for the year (903) show an increase of 356 over the preceding twelve months. The number of immigrants who utilized the immigration hall, vize, 2,675 persons, an increase of 916 compared with the previous year, does not adequately represent the total incomings, as large numbers put up at hotels, or go on to the land without stopping at Calgary. Mr. Winn, immigration agent at Calgary, estimates the arrivals there at 13,425. The settlers are of a gooclass, and numbers of them bring in much capital. Last year's crop was above the average for the district.

A. J. FRASER. Lethbridge, Alta, reports a large increase of immigration to nis district, nearly double the area under erop, as also of homestead entries, the settlers going mainly into the Cardston, Maeleod, Pincher Creck and Medicine Hat country; a number bought land from the Irgigation Company, and others from the Calgary and Edmonton Railway Company. The settlers are well satisfied, and are going into mixed forming. Grain, roots and vegetables are all doing well, and harvest prospects were never.

ii

better. He reports the district as singularly well adapted to mixed farming, that a healthy condition prevails, and all lines of business prosperous.

W. H. COTTINGHAM, Red Deer, Alta., reports a year of great progress for the Red Deer district. The grain ripened, and a bountiful harvest was secured. Not much fodder was required, as the winter was mild. Cattle came through on the prairie grass in good shape, and with very little loss.

The homestead entries are largely in excess of the previous twelve months, and a large number of persons have purchased railway lands, also land in the Sharphead Indian reserve. Fully one thousand heads of families have settled in his land district during the year, amounting at the usual average to 5,000 souls.

A large number are foreigners who first settled in the United States, and a number are returned Canadians. With one or two exceptions, all settlers during the past year speak the English language. Mr. Octingham points out that mixed farming in his district is not an experiment, but its success has been fully demonstrated. Some intending settlers seem disappointed that they cannot get free homesteads near a town with churches and school as thand. Yet, so far as ReI Deer is concerned, free homesteads of first-class land can be had, but not at a less distance than twenty miles from the railway.

R. A. RUTTAN, Edmonton, Alta, reports an extraordinary increase in the settlement of that district, and development very great. The bulk of the settlers are homesteaders, but numbers have purchased railway lands, and from grantees of half-breed scrip. The whole number of heads of families is reckoned at over 2,100, and the increased immigration of the year has been materially assisted by the correspondence of parties already settled in the district, who are contented and prosperous, and promoters of an immigration which is certain to increase largely year by year. Though rains were heavy for a short period, crop prospects are good. Two million bushels of oats, it is believed, will be exported from the region north of Red Deer river this season, the other grains being required for home consumption. The prospect of the Canadian Northern Railway passing through the district is already stimulating settlement in the ' Vermilion River country,' a beautiful region south and east of Beaver lake, in townships 49, 50 and 51, in ranges 13, 14 and 15, west of the fourth meridian. There is still ample room for hundreds of settlers in the Edmonton agency, along the probable location of that road. Mixed farming has become general in the district, excepting Stony Plain district, where grain is a specialty-sometimes a mistaken policy since when grain is damaged, the mixed farmer can feed it to stock at a profit even greater than that obtained at the ordinary prices of grain. The settlers, merchants and business men generally are satisfied with the existing conditions in the district.

E. A. Nast, Kamloops, B.C., reports a cool season with plenty of rain, so that fine crops are growing without irrigation. The climate seems changing, be says, and if so. lands hitherto considered worthless will be eagerly sought after. Hay and grain look well, the range-feed excellent, and eattle in prime condition. He believes Kamloops to be a mining centre, and reports a costly dredger as about to begin work on Thompson river, fifteen miles from town, also a large number of people awaiting confirmation of recent surveys in order to make their entries.

JOINM MCKENNE, New Westminster, B.C., reports a large correspondence last fall and this spring asking for information as to climate, prices of produce, quality of lands and prospects of settlers now in the country. The British Columbia government also supplies kim with immigration literature. Pamphlets descriptive of western Canada alone are not very well suited to British Columbia, the natural conditions being different. A good many people have arrived during the past faced year who have purchased in most cases partly improved lands; others have settled in valleys not yet surveyed. The district he states will be excellent for dairying and mixed farming, and the weather this senson is propitious.

SYNOPSIS OF REPORTS OF SUB-AGENTS OF DOMINION LANDS.

SPENCER PAGE, Wapella, Assa, reports the actual immigration into his district during the hast fiscal years as not very large, but a large number of cancelled homesteads have been reoccupied by a very desirable class, viz., the sons of old settlers. Only two car-loads of immigrant's effects were landed at Wapella last spring, owing to there being no homestead land now in that version. The Finlander and Jewish colonies are making progress, the cultivation area has increased, and nearly all the Jews now own half a section of land and are doing well as framers.

REGIMAD NEWTH, Qu'Appelle, Assa., reports a large extent of excellent land lying idle north of that town.

II, G. W. WLEACS, Indian Head, Assa., reports that whilst the land in that vicinity is now well settled, there is still a large tract available in the southern part of the ditrict which is reasonably close to the Canadian Pacific Railway, the soil being a heavy black loam with clay sub-soil. A French settlement ten miles south is progressing. The foreign element in the district is very small; but whilst the majority is Canadian, foreignes should do equally well in the district, where well known success in the growing of wheat and other cereals should be a strong inducement to intending settlers. An immense acreage is under crop this year and promises excellent results.

J. J. Excussi, Maple Creek, Asan, reports only for the six months ending June 30, as he has only been in charge of the offace there during that period. Homestead entries are largely in excess of last year, the new settlers being of a most desirable class. Well-provided immigrants from Dakota, Jowa, Nebraska and Montana are bringing in fine stock to the ranges. Large numbers of settlers are locating along the Saskatch-wan river, and a ferry upon the river would settle a good country on the north side. Little loss was sustained by the ranchers last winter, and shipments of fat attle were imade from Maple Creek as early as the month of May. Over 3,000 stockers were brought from the east into this district this spring; the crop aeroage is very much larger than usual, and is in splendid order.

He reports a number of immigrants from Montana as having settled on lands south of Cypress Hills, awaiting surveys.

R. M. MICHELL Weyburn, Assa, reports that hay matures earlier than in districts more easterly where the 25th of July is the day fixed to start cutting. At Weyburn they will cut on the 15th July, as at Regina. A great number of settlers are applying for patents for their homesteads.

A. B. Coox, Arcola, Assa, reports that during the season a great many settlers arrived in the Moose Mountain district, and more than 60 ears of settlers' effects have been unloaded at Arcola. A large number of Americans from Minnesota, Nebraska, Dakota, Iowa and Illinois have taken land and commenced operations. In addition, a number have arrived from Ontario and the eastern provinces, and some from France. Germany and Ireland. All these settlers are superior and desirable, and apparently well satisfied and delibited with the district.

Mr. Cook reports the season very satisfactory; weather all that could be desired, and prospects for a banner crop. The cattle on the ranches and the mountains never looked better, and the number is rapidly increasing.

The land in the district is admirably suited to grain-raising, being composed of 12 inches of loarn with a clay sub-soil. First class water can be obtained almost any place at an average depth of 20 feet, and there is an abundant supply of wood in the Moose mountains.

A number of free homesteads within easy reach of Λ reola are still open, together with a large quantity of railroad land open for sale.

The country to the south of Moose Mountain is mostly of a rolling character, being formed of long slopes and valleys with a number of streams of water. The

1-2 EDWARD VII., A. 1902

Moose Mountain creek winds along the valleys, and is a very pleasant stream of clear water, running the year round.

Mr. Cook's district is a rather large oue, and he estimates there are still several hundred first-class homesteads open for settlement.

C. O. CARD, Cardston, Alta., reports that it would be of great benefit to have his district settled east and west to the boundary. The government has opened the country for homesteading as far east as range 19, but pasturing and arable lands extend to the mountains on the west.

He reports good harrest prospects in the Mormon colonies. The acreage under crop is double that of last year, and so vars a quantify of land is being hocken up that the acreage under crop will be quadrupled in 1902. Stock prospects are excellent, sevral thousand additional head have been placed upon ranches and farms during the bumestads enough for home-scekers; but the government has thrown open township 1, in ranges 20, 21, 22 and 23 south and east of Cardston and south of Magrath and Stirling. New comers are going north to the Waterton river, and setting east and west of that stream. Settlers are generally contented. Last year's good crop is likely to be followed by another. Wuch of the country adjacent to the Foot Hills is undulating, and in places precipitons, so that road allowances ennot be followed, and other ronds are needed to give settlers access to markets, and to the mountains for timber.

A. E. Cox, Pincher Creek, Alta, reports regarding the region west of range 26 west of the 4th meridian, to the Rocky Mountains. The settlement of this district proceeded very rapidly during the past year, the new settlers being mainly practical farmers from the United States, Ontario and the United Kingdom, who recognize that the region is adapted to mixed farming, and have both confidence and capital to buy land adjacent to their homestadist in the set of the set o

The winter had a few cold weeks, but cattle wintered reasonably well. Crops were good and abundant and well saved. There is increased areareage under crop this year of grain and grass; timothy and brome are receiving much attention, both being profitable for home use and export. Garden stuffs always do well in this district. The future development of the large coal areas of the region will greatly advance its material properity. The exports of his particular district were approximately 2,760 eatths, 300 horses, a large but unknown quantity of hay and some grain, the imports being 1,700 cattle, mainly stockers, and thoroughbred bulls. Pincher Creek has become a distributing centre, and has increased considerably in importance and solidity during the past year.

W. D. PTCXHES, PONOKA, Alta., states that 3,500 acres of Indian reserve land have been sold since the middle of March last, at an average of 88 per acre. He estimates the immigrant arrivals at his point for the year at from 600 to 700 souls, 75 per cent of whom are Americans, mainly from Dakota, Nebraska, Iowa and Minnesota, especially Dakota; and are a good class of yeomanry who have realized on their property in the States and are investing at Ponoka; fully 70 per cent are married men with their families, the remainder being principally British, Danes and Swedes.

Fifteen miles from either side of the railway there is abundance of good free land awaiting settlement, but within that distance the land is largely taken up. Road-making is one of the great needs of the disfrict, also bridges over creeks and streams. The district is admirably adapted for stock, but with better railway and road facilities, dairying and mixed farming would be carried on much more largely than at present.

OTHER MATTERS OF INTEREST.

Western Canada has long been considered as a land of wonderful natural resources, but new and additional proof of its vast possibilities may be found in several facts: that while boring for water, coal has been found at Otterburne and St. Malo, on the east side of the Red river : natural gas was reached right in the town of Melita, at a depth of 381 feet; brine of great strength has been found near Dauphin, and near Miami a bed of natural common has been discovered which a company is now manufacturing by mixing it with gypsum from Lake Manitoba, and of this material they are now turning out 75 barrels a day.

While western Canada is beyond question an agricultural country, the land of the farmer and stock-raiser, yet these new 'finds' will be interesting reading, and doubtless awaken further investigation into future possibilities.

Localities which at one time were occasionally troubled with summer frosts have completely overcome that difficulty, and it is now proved beyond a doubt that cultivation is an almost certain preventive of summer frost in the northern portions of our Territories, as is also the case in various States of the Union formerly troubled in the same way.

CONCLUSION.

The conditions of the fall of 1900 might have been considered by some as sure to affect immigration from the United States particularly, but it appeared on further investigation that the north-western States of the Union at least had been passing through a similar experience. Notwithstanding, therefore, those temporary conditions, which might have affected the incoming of American farmers, I am pleased to be able to point to the very handsome record during the first six months of 1901, to prove that the good reputation of the Canadian west is now firmly established in the opinions of American farmers. Lands which last year could have been bought for from §3 to §5 per acre, are now worth from §5 to \$10 per acre, and in some choice localities land has advanced over 300 per cent; and the fact that school lands in the Territories brought in some cases §3 an acre more than similar lands in Manitoba, is significant of a general advance in values throughout the whole country.

It appears to me that a fairly general movement has been successfully inaugurated in favour of western Canada, and it is not too much to suppose that this movement, instead of decreasing, will rapidly widen from year, to year.

I have found that there are sueb a large number of people coming from the south by way of Encreson, on the Canadian Northern Railway, and by way of Gretan, on the Canadian Pacific Railway, that I would recommend that arrangements be continued for the placing of a man on each of the dnij trains passing over these respective lines, in order to check the arrival of immigrants, and to assist this office in disseminating useful information and advice to newcomers.

The whole of the staff connected with the office have been kept very bury during the whole of the year, and the efficiency with which the work has been carried on in all its branches is a natural tribute to the effective work of my predecessor, Mr. W. F. McCreary.

Respectfully submitted,

J. OBED SMITH, Commissioner.

No. 2.

REPORT OF C. W. SPEERS, GENERAL COLONIZATION AGENT.

WINNIPEG, August 7, 1901.

The Superintendent of Immigration, Ottawa.

SR,—I have the honour to submit to you my annual report, being a review of the work done by me from June 30, 1900, to June 30, 1901.

In the month of July, 1900, ny time was occupied inspecting the colonies situated in Saskatchewan, viz., the Galician settlers, the Doukhobers, and settlers of other nationalities in the vicinity of Rosthern, and in addition to the above, Hooked vere portions of the country in the vicinity of Croaked Lakes, Carot river, Wingard and Dundurn, to select suitable districts for the future colonization of different nationalities. The colonies inspected were making excellent progress, they have broken large tracts of land, and have acquired a great deal of stock, their surroundings are very much hippstroked, and where employed they have given excellent satisfaction. I have received the highest trainomials as to their work as domestic servants and labourers, both from corporations and from individuals. They possess a good country, and the districts inspected for future colonization possess every natural advantage; yell wooded and watered, with the best of soil. Saskatchewan is capable of holding an immense population, and also insuring great prosperity for its settlers.

During the same month I was enabled to secure employment for a great many of our settlers. During the month of August, 1990, I was in attendance at the fairs at Winnipeg and Brandon, where we had a bureau of information, and distributed large quantities of immigration literature. We met a great many American poople at these places. I also purchased at these fairs some very excellent samples of grain for the United States state fairs. During the latter part of the month, I assisted in placing a thousand Galicinan and Doukhoobro in the harvest fields of Manitoba. I am placed to note that they invariably gave satisfaction, and were considered first-class men.

The classification and shipment of grains, grasses and other exhibits for state fairs also engaged my attention in August.

During the month of September I attended the state fair of Illinois at Springfield, assisting Mr. Broughton. We put up a very nice exhibit of Canadian products, and gave information to thousands of people daily, who were inquiring about Canada. After returning, I inspected several of our colonies, doing some special work, and under instructions of the 22nd of October, inspected all the workhouse children, as well as philanthropic societies and institutions, making a detailed report thereon.

My time was also occupied in inspecting the different colonies, looking after various things pertaining to settlers, and I found our foreigners in a very satisfactory condition.

I beg to observe that many things occur from time to time that require attention, such as cases of unpaid wages, differences and disputes as to the location of land, reports that contagious diseases have broken out, &c., such things as the above mentioned I have had to look into and report upon.

I inspected the colonies in the Saskatchewan district during the same month, and 1 found the Galician settlers in a very prosperous condition, and also the Doukhobors settled in that district. They comprise seven villages. They possess 450 head of

cattle, 186 horses, 200 sheep, and have over 2,000 acres of land ready for erop, which has been sown during the late spring. They are a very thirfy, progressive community, and are commencing to realize the extont of their land, and the great producing possibilities of the country, and a wiled revelopment of individualism will follow. They are spreading out from the villagea, working for other farmers, and they get an idea of what one man can do.

I also visited the Galician settlers, in the Dauphin district, in the vicinity of Duck Mountain. I found these settlers in a very prosperous condition, and their future fully assured; good houses, plenty of stock, and they possess an excellent conntry.

I spent a few days in February with Mr. Smith, the new Commissioner of lumigration, looking into particulars pertaining to the work of the coming season, viz., the preparation and eare for the reception of immigrants at different points throughout the west, and also submitted a map showing the prospective districts where people will be colonized during the present season.

Subsequently I inspected some of the buildings of this department, and recommended certain changes. I also visited Saskatchevan district, doing work for the department, and again visited the different colonies.

In compliance with instructions from the deputy minister, I took charge of the purchase and distribution of seed grain to be given to the settlers in Assiniboia, under the direction of Mr. J. G. Turriff, Commissioner of Dominion Lands. The purchases of suitable grain, the compilation and correction of the list submitted from Ottawa, as well as new applications received, had to be thoroughly gone into in the different districts. The lists were carefully compiled, and about 44,000 bushels of grain were distributed from different points. The seed grains were carefully examined at places of shipment, and only the highest grades purchased at commercial values. Lien security was taken for the department from each individual receiving an advance, and handed over to the Dominion Lands Department according to instructions from the commissioner. I heg to intimate that the Canadian Pacific Railway Company were very generous in assisting to get the grain into the hands of the settlers, and handled it in all instances with promptness and despatch. This advance to the settlers has been a great boon to the district, and has been highly appreciated by the recipients, who are now on the verge of reaping a bountiful harvest, the production of the seed which was supplied them.

I was enabled to do considerable immigration work during the seed grain distribution, as will be shown in reports dated April, May and June. I accompanied John Ashworth, representing the English Quakers, through the Doukhobor settlements, and also visited a number of other districts.

Of this year's arrivals of new settlers fully 35 per cent are farmers and producers, about 15 per cent are lahourers, the others are made up of tradesmen and men of other callings. I consider farmers and labourers the greatest accuisition to our country.

We are how on the verge of reaping and harvesting one of the greatest erops ever produced in western Canada, and we are now confronted with the difficulty of getting sufficient help to meet the requirements.

I may say with reference to the Galicians that they have assisted largely in huilding our new lines of railway and colonization roads. Their future usefulness along the line indicated will be very great; they ask no light-handed or elerical work of any kind. There has been no infringement or encreachment by them upon any class; they have been obedient and industrious; their homes and colonies in all enses show what industry and frugality will do. They have earefully husbanded their carnings, and purchased the necessaries and commodities of life, as well as being large consumers of the manufactured products of eastern Canada. People who a few years ago subjected them to adverse criticism have changed their views. The twens and villages udjacent to these colonies have grown, as they never did libiterto; trade has expanded, and merchants speak highly of their homesty and their trade. They are all learning the English language and anxious to have English speaking schools. Their adoptability 142

1-2 EDWARD VIL, A. 1902

to our customs and usages, as well as their conformity to all our regulations, impresses one that we will not have to wait one generation, but in a very short time they will be Canadianized, and be identified with our citizenship, and become a potent factor in our development.

In submitting this report, I may say that my duties during the year have been multifarious, and I am pleased to state that there is general prosperity prevailing throughout all the colonies of different nationalities, settled in north-western Canada. Wages are higher in Canada to-day than they have been in 25 years, and I am persuaded that the department has every reason for congratulation, not only at the prosperity of the different colonies settled in the west as a result of their work, but from the fact that a steady stream of immigration is coming from the southern republic, and that the active work done by the regular agents of the department in the United States has already borne fruit.

I have endeavoured in addition to promoting a peaceful colonization of all people coming into the country to look after these people in the way of giving advice and otherwise after they have been settled, and also to adjust any difficulties that would arise that might militate against them. They are, generally speaking, happy and prosperous and contented.

Your obedient servant.

C. W. SPEERS.

General Colonization Agent.

OPERATIONS IN THE UNITED STATES.

No. 1.

REPORT OF W. J. WHITE, INSPECTOR OF AGENCIES IN THE UNITED STATES.

DEPARTMENT OF THE INTERIOR, OTTAWA, June 30, 1901.

The Superintendent of Immigration, Ottawa.

SIR,-In submitting to you a report on the work done in the United States by the agents of the immigration branch during the year ending June 30, 1901, it may be said that securing settlers there is no longer an experiment. In the spring of 1897 an active propaganda in a few of the western states was established, and while first thought to be somewhat doubtful, year after year has shown marked increases in the number of settlers who have gone to western Canada, and the past year has been the most gratifying of all, exceeding anything that had been anticipated. Taking the year just ended, not only has there been a greater number of settlers from the United States, but the amount of money and effects taken in by them will. I am sure, show a most decided increase. It is no longer the man with limited capital who comes to Canada, but the one who has, in many cases, a large bank account to his credit. It is he who is now establishing himself in the western prairies, and with him also his friend and neighbour. It is no uncommon thing to see colonies (sometimes filling a large train with their effects) going to Canada and settling in districts by themselves, quickly surrounding themselves with every social comfort and making not only their own settlement attractive, but adding value to the lands which surround it. It need scarcely be pointed out, it being a fact pretty well known by this time, that the American settler quickly adapts himself to Canadian ways and methods, and brings with him an experience which makes it very easy for him to soon get a return from the land which he is occupying; the usual difficulties of pioneering proving no obstacle to him. His experience is also valuable to those from other countries who have not had the opportunity of a training in western life. A visit to the districts in which Americans have settled, the well finished houses and barns which they immediately erect give every assurance that they have removed to Canada intending to make it their permanent abode. They at once have schools established, churches erected and cause villages to spring up very quickly. Hundreds of letters in the hands of our agents from American settlers show that they have written back to their friends assuring them that Canada and Canada's laws are good enough for them, that they are satisfied with the new conditions and anxious to have more people follow. It is scarcely necessary to emphasize the fact that of the thousands of Americans who have made their homes in Canada during the past five years all have proved to be good citizens.

ADVERTISING.

One of our principal agencies, and without which successful work could not be looked for, is that of judicious advertising. To this I have given considerable atten-

1-2 EDWARD VII., A. 1902

tion, and after having analyzed the various methods I am fully satisfied that the plan adopted by me in 1897 is still the only one that will bring about the results which we have been pleased to see. In the states in which active operations are being carried on, namely, North and South Dakota, Minnesota, Wisconsin, Nebraska, Kansas, Iowa, Illinois, Missouri, Indiana, Ohio, and Michigan, advertisements are inserted in all the local newspapers during a portion of the year. The principal farm papers are used as well as the leading weekly newspapers. Neatly displayed advertisements are run, and reading notices descriptive of the country appear from time to time. The columns of upwards of seven thousand newspapers are used, and in this way we reach the great mass of people amongst whom the agents are working. When the towns in which newspapers are published are visited personal calls are made upon the editors, and it is very rarely that the next issues of the papers do not contain a couple of columns of reading matter concerning Canada, which the editors are pleased to have, and which while of great value to the work has never been made a charge on the department. From time to time posters are circulated on the markets, at the school houses and other places; carefully edited and well printed literature finds its way into the hands of all applicants.

THE ATLAS.

The illustrated atlas published by the department is one of the best mediums that has been placed in the hands of the agents, and it is always in great demand. Besides this the Concise School Atlas has been of considerable value and much interest, it being possible to get it circulated in several of the schools, and I would recommend that an additional number of these be published, those having paper covers being as satisfactory as the line. In addition to these there are other pamphlets, such as 'Timely Ikemarks,' Hints to Settlers'. 'Delegates' and Settlers' Reports.' All these have had a free and extensive circulation.

IN SCHOOLS AND COLLEGES,

There has also been a demand from schools and colleges for a wall map of Canada which could not be filled, excepting in a few cases, where it was thought they would be most useful and of assistance to our agents.

STATE AND COUNTY FAIRS.

At state and county fairs large quantities of literature are distributed to farming chases and to labourers who are likely to become settlers on our free grant lands, and to others who evince interest and who may likely remove to Canada. This together with the exhibits of grains and grasses, attractively displayed, makes an excellent advertisement.

During the fall, winter and spring the agents hold meetings in school-houses and halls, and doliver loctures on Canada and its resources. They attract large and interested audiences and considerable success as a rule follows these meetings and the personal canvas that is made for a few days afterwards.

KEEPING CONSTANTLY AT IT.

Although the department and its agents have been very successful in securing a large number of excellent settlers, it is only by means of continued and unceasing effort that this work is accomplished. ⁴Keeping constantly at it's seems to be a motio that must be fully observed, and it has been this that has brought about the results

which the reports of the agents show have been accomplished in the various states. The operations in these states have been very active since he spring of 1897, and an previously pointed out, each succeeding year has shown a very large increase in the numbers who have moved to Canada.

The work in Nebraska became so great that it was found necessary in 1900 to place an assistant in the office at Onnaha, and in the spring of 1901 further assistance was required. In the state of Wisconsin I desire to point out that there are obstacles in the work there not found to such an extent in others. The results there above that great success has followed, but it would have been even greater were it not for the competitive netivity of the railroads having hands of their own to dispose 6. This, however, will not last long, and then we hope these roads will be found to co-operate, to some extent, making it less difficult to get settlers.

In Minnesota the work of the agents has been followed with a satisfactory degree of success. The settlers who have gone from there are men possessing considerable means, and as settlers are exceedingly satisfactory. A large number coming from this state during the past year are Mennonites, who have settled in Saskatehewan, and whose reports to their friends are very satisfactory. Eastern Assimbiou has also been a favourite spot with a great many from this state. The office at St. Paul has been found more useful the past year than ever on account of so many passing through from the southern districts and stopping over to gain additional information before continuing their journey.

The work in Iowa during the past year has been carried on actively. From this state has gone to western Canada a class of settlers that may be said to be of the very best in the state, most of them having considerable means.

The success of the work in Illinois is unabated, and we continue to get a very satisfactory class of settlers. The correspondence shows that the work of the agent during the past year has been greatly increased, and judging from the nature of the correspondence, I feel safe in saying that the number of settlers from Illinois next year will show a wonderful increase over the past.

The State of Indiana was one that the department felt should be a good field for an agent, and early in the year 1900, Mr. E. T. Holmes, formerly of the St. Paul office, was placed in charge. It was expected that he would devote his time to advertising his work during the first year, and it was scarcely expected that he would be able to chronicle any direct result. In this, however, we have been agreeably surprised. He has sent out some excellent delegations, the most important, probably, being a Mr. F. Fisher, representing a number of families of Indiana, Ohio, and adjoining states. The report of Mr. Fisher's visit has appeared in a great many papers, and will doubtless bring Canada to the attention of many who will be guided by his advice. I look for a large movement to Canada during the next year, as a result of his visit. Other delegations of importance were also sont during the year, and a number of stellers. I have pleance in stating that, in my opinion, the work in Indiana fully justifies the establishment of an agency in that state.

In Ohio excellent work was being done by the late Mr. D. L. Caven, who was one of the best agents in the employ of the department. Capable and energetic, he was continually active in the work of sending settlers, and it was while in the performance of his duties the illness came upon him, which alterwards was the cause of his death. I am pleased to state that Mr. J. Young, the present agent, is actively engaged in carrying on the work there, and good results should follow.

Michigan has done remarkably well, and there is reason to feel pleased at the excellent work that has been done here by the agents in charge of the state. During the year Mr. Grieve was removed from Northern Michigan, as well as to be of assistance to those who go into Canada in that direction. The interest in Canada is growing in this state, and the united effort of the agents there is meeting with splendid results, the settler going from Michigan a most desirable class.

25 - ii - 10

DEPARTMENT OF THE INTERIOR

146

1-2 EDWARD VII., A. 1902

The agencies in North and South Dakota have been able to report wonderful success. Many of the settlers who have gone from these states have bought largely of lands in Canada. As a class, they are the very best. Many of them have formerly resided in Canada.

From Kanasa and Misscuri it is pleasing to report that we have been able to secure a large number of first-class and desirable settlers. Like in the other states named they have had the experience of life on western farms, and had they no other capital than that they would prove valuable on the partice farms of Canada. But in very few cases have any gone who did not take with them means sufficient to fully equip their farms with a splendid outfit so that they could immediately commence operators.

OPENING UP OF INDIAN LANDS IN THE STATES.

During the past winter, when it became known to the department that the Indiau Territory, adjoining Otlahoma, was to be opened up, and that a rush was likely to take place to that district, it was thought advisable that I should pay a visit to the Territory. I did so, and found that land hunters were going there by thousands. It was quite evident that in the whole of the territory about to be opened up there was not coungh land for one-tenth of those who would visit it. The idea of taking advantage of this for advertising Canada and Canada's lands was acted upon, and Mr. Crawford, the Kanasa agent, was advised to place exhibits and distribute Interature. This will be done, and early in July he will remove temporarily to El Reno, and remain there with whatever staff is necessary until the drawing is concluded.

I feel that the work in the United States during the past year has been very satisfactory, and that the future has still greater results in store. We may look for material gains from this source from year to year, as the wonderful resources of Canada become more widely known.

Your obedient servant,

W. J. WHITE, Inspector of United States Agencies.

No. 2.

REPORT OF M. V. MCINNES.

ROOM 2, MERRILL BLOCK,

DETROIT, MICH., July 1, 1901.

The Superintendent of Immigration, Ottawa.

Sun—I beg to submit my report for the year ending June 30. The year has been a busy one, yielding good results and much promise for the future. I have received many favourable letters from persons who have gone from this and adjoining states to settle in western Canada, and these are naturally of great assistance to me in my work. I can aware of 30.24 persons having gone from this territory during the year to settle in western Canada. These were all desirable immigrants, and the majority of them scople of means. They took with then 93 car-loads of stock and effects, in addition to 127,000 lbs. of light freight. One man took 20 thoroughbred horses and 10 pedigreed bulk to improve the stock in the neighbourhood in which he proposed settling.

That feature of our work which is represented by a display of the products of western Canada at state and county fairs was well attended to.

We were in evidence at the Tri-state Agricultural Exhibition, at Toledo, Ohio, where the three important states of Michigan, Ohio and Indiana were represented; also at the Michigan State Fair at Grand Rapids, Michigan, and at special county exhibitions held at Sandusky and Columbus, Ohio, and also at 11 other county fairs in Michigan and Ohio.

This involved an undivided attention and a good deal of hard work, but the results more than justified the expenditure of labour and means. First-deas diplomas were secured from the governors of the Tri-state Fair at Toledo, and the State Fair at Grand Rapids, and diplomas and letters were received, couched in the most courtcous language and with every mark of appreciation and respect, from the executive in charge of every one of the other fairs and exhibitions where our products were displayed. The wheat and all other creares made a most excellent impression, and have been the means of attracting to western Canada a large and interested number of inquirers, 90 per cent of whom have either become actual settlers there or intend to be such in the near future.

The German-American colory, planted more than two years ago in the Moose Mountain district, in south-mastern Assinioba, of which the thrifty little town of Alanada is the headquarters, is thriving, as the German element, whenever transplanted to congenila soil, never fails to be. Mr. William Richert, ex-mayor of Detroit, the counsellor and guide of the little community, paid us a visit a few months ago and reported most favourable progress. If was the picture of health and activity, and affrmed that he believes the wholesome elimate of western Canada will add ten years to his life. It easisted very materially my labours among his compatitos in Detroit and Wyandotte, and together we secured 76 new immigrants, who left under his direction for the land of health and plenty well equipped with solid stores of goods.

I have not lost sight of our Danish and Swedish friends in Michigan. Many letters have passed between us, and some excellent delegates, chosen from among these people, are about to visit western Canada to investigate the country. A great deal of literature in their language has been distributed among them, and I look for good results in the near future.

It is with feelings of sincere sorrow that I record the death, during the year, of Mr. David L. Caven, former Canadian government agent for Ohio. He had not been

25-ii-10ł

1-2 EDWARD VII., A. 1902

long transferred to this state when he fell a victim to paralysis while in the discharge of his duty. After a short illness he succumbed to a sad and untimely death. He was a zealous worker and always had the good of Canadian immigration at heart. Mr. Caven's death replaced the Ohio work in the Detroit office for a time, and entailed additional habour, augmenting the correspondence to a very large extent.

Perhaps the most important factor in our work is the sending of delegates from different sections of the United States into western Canada to investigate the land, its people and resources. The written evidence of these men—wide-wake and progressive farmers—is a valuable part of the literature that wo disseminate. It eannot be gainsaid, and has been the means of sending into the west quite a little army of settlers from different parts of the union. I have been eareful to foster and dvance this excellent means of advertising, and have sent out quite a number of delegates from Michigan, Ohio, and other states during the last year. Several are now in the west, and before threshing time is past more will follow. Invariably their reports have been favourable, and they speak in the very highest terms of all they saw. This phase of our work should be continued for some time to come.

Many inquiries have been made concerning the agricultural, mining and business opportunities of the provinces of Quebec and New Ontario, and I distributed to good advantage all the literature received bearing on the resources of these localities. Quite a number of settlers have been secured for both provinces, and I am convinced that, as time goes on, their vast resources will attract a large and active immigration.

Altogether the outlook for the future is encouraging. It does not appear to be overcast by a single cloud, and if the crops in Manitoba and the west prove to be a necess this season,—which seems to be almost assured,—I believe there will be quite an exolus from those parts of the United States where new homes are sought for, intoevery section of western Canada during the coming year, and, so far as I see, our labours will be doubled.

Your obedient servant.

M. V. McINNES.

No. 3.

REPORT OF JAMES N. GRIEVE.

SAULT STE. MARIE, MICHIGAN, July 24, 1901.

The Superintendent of Immigration, Ottawa.

SIR,-I have the honour to present my report of the work done in my district for the year ending June 30, 1901.

During the twelve months, I am pleased to inform you that the number of settlers who went from my territory to all points in Canada, was 1,311, being distributed as follows :

To Manitoba, North-west Territories and British Columbia, via :---

Portal Cretua Fort William Sault Ste, Marie Windsor	90 48 140 180 92
Total	
Sault Ste. Marie	
Sarnia	640 81 40

These people took with them 14 ear-loads of settlers' effects and about 74,000 lbs. in small lots, estimated value \$22,000. As will be seen by the above figures, the volume of business done during the year just closed has considerably increased.

Early in the present year I was transferred from Saginaw to a point still further north in the state and since that time I have made my headquarters at 'the Soo.'

During the latter half of April and the month of May something over 500 people called to see me and gather what information they could regarding the North-west, and I have reason to believe by latter results that their mission was not in vain, as almost every day I cross the river with parties starting for some part of Canadian territory.

I am pleased to say that the immigration this season so far has been greater than at any time during the four years of my work. In April, May and June of the present year I had 120 families, representing 600 people, crossing at this point to make their homes in some part of the Dominion, a large number of them being French Canadiawa.

One of the principal factors in my work and one that has been followed by good results is the placing upon exhibition at the state and leading county fairs grain and grasses, products of our western country. This kind of advertising I think it well to

1-2 EDWARD VII., A. 1902

continue, and would advise the placing of minerals upon exhibition as well, which would add not only greatly to the appearance of the exhibit, but would materially assist in drawing people's attention to the mineral wealth of New Ontario and British Columbia.

I attended the state fair at Grand Rapids, along with Mr, M. V. McInnes, of Detroit, and Mr. E. C. Ovitat, of the Canadian Pacific Railway, and we were kept busy from early morning until late in the evening. Our department was througed with sight-sees and eager questioners who one and all promounced our exhibit the finest upon the grounds. I also assisted Mr. T. O. Currie at the Wisconsin state fair, held at Milwaukce, and was pleased with the very artistic way in which he had the exhibit arranged. As at Grand Rapids the Canadian exhibit was the centre of attraction, the only drawback being the impossibility to do justice to the thousands of people who seemed anxious to gather all the information possible of the western fields where such grain and grass could be grown.

I also attended as many county fairs as time would permit, and at each one arranged my exhibits to make them as attractive as possible, and without any undue flattery can safely say that my exhibit was the greatest attraction of the fairs. At Eaton county fair, I handed out nearly 1,500 pounds of printed matter, principally atlases and 'Western Canada.' My thanks are due to Mr. E. C. Oviant for assisting me there during the two busiest days. Besides advertising in this way, during the fall and winter months I exhibited in a number of small country places throughout my territory, generally staying from one to three days in each place. In this way I came in personal contact with hundreds of farmers and villagers and have thus been enabled to present to them the advantages offered by western Canada.

Your obedient servant,

JAMES N. GRIEVE, Canadian Immigration Agent.

No. 4.

REPORT OF E. T. HOLMES.

INDIANAPOLIS, IND., June 30, 1901.

The Superintendent of Immigration, Ottawa.

Sim—I beg to submit my report for the year ending June 30, 1901. During the year I issued certificates to one hundred and two (102) settles whose capital and effects I valued at ninety-one thousand nine hundred (\$91,900) dollars, which I consider a fair estimate. One settler who went from this state and settled at Ponoka, Alberta, is reported to be worth forty-five thousand (\$45,000) dollars. The capital of the others varied from five hundred (\$500) to cight thousand (\$8,500) dollars.

During the fall of 1900, I put in an exhibit at the Indiana state fair, and also at three county fairs, which attracted a great deal of attention and comment, the specturors stating that it was the finest display of its kind they had ever seen.

The number of inquiries I have received by mail regarding the free government lands of western Canada, has been far beyond my expectations, but at 1 was informed when I first came to this state (and have since learned by experience) that 'hoosies,' are very slow people to move, I feel confident that when they have learned how well pleased those are that have moved, they will soon realize the advantages offered them in western Canada.

It has been my practice to answer all inquiries promptly, sending at the same time some literature, and forwarding their name is the sendence of the sendence of the sendence be sent them. I have also called on all that time would permit. During December and January has, I held a number of meetings in this state and Kentocky, all of which were well attended. I distributed literature at each of the meetings after addressing the people. I have visited about every county in Indiana during the past year, and as I invariably have to drive into the country to see the people, it takes a lot of traveling to see even a few of them.

In May last I made a trip to Edmonton and Prince Albert, accompanied by Mr. Frank Fisher and wife, of Maxieo, Indiana. Mr. Fisher is a leader among the Dunkards, who are purely an agricultural set of people, and the best class of farmers in the United States. Mr. Fisher expects to locate a colony of his people in Saskatchewan next spring. I think Mr. Fisher and his wife are the first Dunkard delegates that ever visited western Canada, and I feel assured that his report on the country will be a means of starting a movement of their people to Canada from North Duckard, as well as Indiana, as a great many people who have moved from here to Dakota have not found that country what they expected it to be.

Your obedient servant,

ED. T. HOLMES.

No. 5.

REPORT OF J. YOUNG.

Columbus, Ohio, July 1, 1901.

The Superintendent of Immigration, Ottawa.

SIR.-On March 15 last, I had the honour to be appointed immigration agent, to this, one of the most important states in the union. On the 20th day of March I entered upon the duties of my office, and as a preliminary to coming here spent a few days in Winnipeg with Mr. Commissioner Smith at his office. I also, before leaving for this place, spent the greater part of a month visiting different districts in the Canadian north-west, acquainting myself with the districts in which immigrants are likely to locate. That time I consider was well spent, as I can give intending settlers the benefit of my personal knowledge of those districts. On the 19th April I arrived in Columbus, and at once took up the work that had been commenced and successfully carried on for a short time by the late Mr. D. L. Caven. I found that there had accumulated upwards of 300 letters, from the time of Mr. Caven's death, and for a time I was very busy in order to catch up with the work. Since assuming office, I have received and answered over 200 letters of inquiry. I consider prompt attention to correspondence a very important part of the work, therefore, I have not been able to visit as many people as I would have wished to do. However, I have visited several districts throughout the state, and have arranged for several delegates to go to the Canadian north-west this summer: four of those will go this month, and a party of eight or ten will go about the first of August. I expect to accompany the latter party. They all represent good families, and are well distributed over the state.

I have issued four certificates to farmers, who went to the Canadian north-west last month. Their families will follow this fall or next spring, and I expect to send several families this fall.

Ohio is a first-class field to expect immigration from, for two substantial reasons. In the first place, the land is good, consequently it is very high, ranging in price all the way from 850 to 8125 per acrc. In the second place, the state is over-peopled, and I find many farmers with large families tiving on 25, 40 and 50 acres, and in many cases paying high rents. Those people are all looking to some country where they can better their condition, and it only requires that the advantages of the Canadian west be made known to them, to reasonably expect a large immigration from Ohio, in the very near future. I find a great many farmers have their eyes on Oklahoum, not knowing anything about the Canadian west, and the system of judicious advertising in the local papers, so as to reach the individual farmer, will have beneficial results.

Your obedient servant,

JOS. YOUNG.

No. 6.

REPORT OF C. J. BROUGHTON.

927 MONADNOCK BUILDING, CHICAGO, ILL., July 6, 1901.

The Superintendent of Immigration, Ottawa.

SIR,-I have the honour to submit my annual report of work done in Illinois, for the year ending June 30, 1901. There have left this district four hundred and sixty souls during the year, with fourteen cars of live stock and emigrants' movables. The majority of these people had over \$600 to the family, some had more. One man, who took two ears with him, had \$12,000; two others had \$2,800 each; another \$3,000. There were six families, consisting of thirty-three people, in Bond county, all ready to go to Alberta, but unforescen circumstances stopped them ; they, however, leave in August or September. Again, in Sangamon county, fourteen more were prevented leaving when they intended to. A rate of \$5 between Chicago and St. Paul had a tendency to seatter the people. That is to say, where a large party was arranged for a certain date last year, this year they went at all times. Some of them I accompanied to St. Paul. They were all met in Chicago, safely transferred to the station from which they were to start, and generally taken eare of till their departure. In two instances I had a special car provided for them. There have been sent out from this office since June 30, 1900, two thousand and ninety-five pieces of mail, and we have had half as many letters, post cards, &e. I have, the same as in past years, visited a number of places and ealled on numberless people, and the results will show in time. For instance, I started three years ago to work on a family and they moved this spring to our country. I had two or three delegates in the early spring. They returned satisfied and will help to move people the coming year. I have more going in August. Besides the number given as going to western Canada, there have to my knowledge twenty-two goue to British Columbia, and thirty-one to Northern Ontario. It might be well to say that the laud grant railroads in the United States inaugurated a low rate for home-seekers this spring, and a good many people who had been talking western Canada took advantage of these rates to go and see these different states, a good many going to Oklahoma and waiting three months for the opening of the reservation, which event, I unlocate in western Canada. With a great many things to work against this year, I have secured for western Canada from Illinois, while not as many as I would like, yet a good number, which will be increased fifty per cent or more during this year. Last fall I had an exhibit again at the state fair, where Mr. C. W. Speers assisted me, and thousands of people saw and commented on the fine display, and the officials of the exhibition granted us a diploma which I have in this office. If we can secure good space this year, we will have another display which advertises Canada. The advertising done is a great help to us, bringing us in touch with the people who are anxious to know more about western Canada. In conclusion, I will say that no one I have heard from who has left Illinois for western Canada is dissatisfied with the change made, but all are enthusiastic and are writing me daily to call on some of their friends.

Your obedient servant.

153

C. J. BROUGHTON.

No. 7.

REPORT OF BENJAMIN DAVIES.

1544 EAST 3RD ST.,

ST. PAUL, MINN., August 1, 1901.

The Superintendent of Immigration, Ottawa,

SIR,—I have the honour of submitting my report of work accomplished and settlers sent from this state to western Canada from July 1, 1900, to June 30, 1901.

You will see that the number sent from Minnesota far exceeds any previous year, or two years; also the number of car-loads of effects has more than doubled, as well as actual cash taken into western Canada by my settlers.

I have continued the plan of work adopted from the first, with a few improvements that are suggested and carried out as the work proceeds.

I attended the Minnesota State fair, held at Hamlin, between the Twin Citics, putting up a very fine exhibit of Candian grains and grasses, both in the straw and threshed, after which I divided the large exhibit in two parts, and attended the county fairs, Mr. J. H. M. Parker, sub-agent at Duluth, taking one half of the exhibit and attending county fairs in northeastern and northern Wisconsin. I have found good results from the exhibits. The same programme will be followed this year ; only attending different towns from last.

I also held some twenty-two public meetings in the different parts of Minnesota. addressing the people and explaining the advantages of vestern Canada as a home for farmers. I am pleased to say all these lectures were well attended and the number anxious for information far exceeded my expectation.

I have distributed thousands of atlases and pamphlets, received through you, in every county in this state. Callers at my office always go away loaded with information, atlases and pamphlets.

I have personally visited every county in this state, in many cases appointing a sub-agent to represent me.

These sub-agents, in many cases, have done good work, as their monthly reports will show, which reports, together with my own, have been forwarded to you regularly.

I find on careful examination of record in this office that I have sent from this state, as settlers in western Canada, between July 1, 1900, and June 30, 1901, 2,060 farmers, representing a cash capital of \$223,507,517; they also took with them 241 carloads of effects, representing a value of \$323,500. Thus you will readily see how emigration is increasing from Minnesota.

I am of the opinion that I shall send nearly as many more this season, basing this opinion on actual observation, from letters of inquiry, and from the good reports that are constantly coming from parties who have already located in different parts of Manitoba, Assimibia, Saskatchewan and Alberta.

Your obedient servant.

BENJAMIN DAVIES, Canadian Government Agent.

No. 8.

REPORT OF CHARLES PILLING.

ST. PAUL, MINNESOTA, U.S.A., July 6, 1901.

The Superintendent of Immigration, Ottawa.

SIR,—I beg leave to submit my report for that portion of the year in which I have been operating in Minnesota, ending June 30, 1901.

Commenced work in the St. Paul office on December 1, 1900. During the winter months 1 addressed fifteen meetings in the southern part of the state, which were all well attended, and the results gratifying, as the correspondence, showing continued interest, and a considerable movement to western C anada from all the places where these meetings were held, testifies. In accordance with instructions, I made a tour of central and southern Minnestota, visiting all the sub-agents, making a special report and recommendations to Mr. W. J. White, the inspector, and Mr. Davies, the agent for this state. The suggested changes and rearrangement of territory embodied therein were adopted, and will, I believe, be of advantage to the work in their various distriets. The balance of ny time has been devoted to visiting correspondents, distributing literature at sales, fairs and markets, and assisting generally in such work as eame to hand, or by direction of Mr. Davies. I have not considered it within my province to go into details respecting the work generally in Minnesota; this, presumably, being fully covered by the report of the resident agent.

Your obedient servant,

CHARLES PILLING.

No. 9.

REPORT OF J. M. MACLACHLAN.

ROOM 12B, CALLAHAN BUILDING, MILWAUKEE, WISCONSIN, June 30, 1901.

The Superintendent of Immigration, Ottawa.

SIR.-I have the honour to submit my first report on immigration. Since coming here in February (1901) to co-operate with Mr. Currie, I have noticed that the keenest interest is being manifested by farmers and others in our Canadian north-west. Letters have been coming in from every county in the state asking for information relating to our free grant lands, &c. Mr. Currie, who has been working here now for about three years, has covered the territory well, as is evidenced by the correspondence coming to hand daily with many requests for agents' certificates for reduced railway rates for intending settlers. Our publications are in great demand, and containing, as they do, useful maps as well as the fullest and most reliable information relating to the country, they do not fail to interest the people and are doing a good work in themselves, and in this way assisting the agents largely in their efforts to further the tide of immigration. From travelling over certain portions of the state I have been in a position to understand quite readily some of the difficulties one has to contend with in connection with the work here. One of the gratifying features of the work done in this state is the class of settlers that have been sent to make their homes in western Canada. They are thrifty, industrious, and energetic men and women, who are anxious and determined to succeed. Intelligent delegates, as well as individual land seekers, have gone from different sections, and I am pleased to report without exception they have all given the most favourable reports of the country, and the result has been that they-along with their neighbours in many instances-have sold out here and returned to settle in some one of the provinces. As my time upon this field has been of such short duration I must claim the indulgence of the department with reference to my meagre report. By the end of another year I hope to be in a position to give a more minute and favourable one, as far as my own personal knowledge of the work is concerned. In conclusion, I beg leave to say that, successful as the work heretofore has been, from present prospects I believe I am satisfied in saying that the coming year will show a large increase in the numbers that will emigrate to the great north-west. The seed has been carefully and well sown during the past two or three years, and a large harvest must naturally be the result.

Your obedient servant,

J. M. MACLACHLAN, Canadian Government Agent.

No. 10.

REPORT OF W. V. BENNETT.

Омана, NEB., June 30, 1901.

The Superintendent of Immigration, Ottawa.

Sun—T have the honour to submit my report for the last year, from July 1, 1000, to June 30, 1901. The number of immigrants as actual settlesr who have gone, and settled in Manitoba and the North-vest Territories, was 1,601, who took with them 154 cars of settlers' effects, and a capital of 81,762,050. During the same period I had 22 delegates from different points in the state, who represented colonies varying in size from 10 to 100 families, this making a total of 1,633 souls. All whom I have heard from seem to be perfectly contented, happy and prosperous, and the outlook for the coming year is much more encourasing than ever before.

Your obedient servant.

W. V. BENNETT.

No. 11.

REPORT OF J. S. CRAWFORD.

214 West 9th St., Kansas City, Mo., June 30, 1901.

The Superintendent of Immigration, Ottawa.

Sum—The opening of 14,000 homesteads for free entry, in the Klowa-Comanche Indian district, has been the principal event of the past year. It very much disturbed my work, as the lands are in my territory and all the railroads traversing the country south are active agents in taking prospective settlers over their lines. Not only movers from my territory have been assembling around the lands to be opened, but all the states have been contributing to the rush, until now there are to to twenty people for every one likely to get a homestead. With this condition existing, I have a grain exhibit tent at Chickisha, Indian Territory, one of the prominent gathering places for these useple, many of whom express themselves surprised at our products, and who declare that on failure to secure homes there, they will at one go to western Canada.

The final day for allotment being August 6, and one of the registration places being El Reno, Oklahoma Territory, I expect to move the exhibit and keep it there until after that date. Street meetings are also being held, and I expect good results to follow from that class of work. It is found that delegations from all the states of the Union are there, so that large results may be looked for, from work there on the return of many of these people to their homes.

A condition of drought existing now for the past three months, all over the southwest, from which will follow a failure in almost all kinds of erops, excepting wheat, will have a tendency to send people north to our country; even now, this is being felt in increasing inquiries at the office here

I have forwarded about 400 settlers with their effects, and 65 delegates to examine the country and return and report, up to this date.

More than the usual amount of literature has been distributed, both at street meetings and through orders for same on department at Ottawa. The class of same supplied is well adapted to the needs of the people, and with the advertisements given the press, brings many⁵ inquiries, and it looks as if money spent in this way brings the test results. It is surprising, however, how much is yet required to be done to have the crowds of possible homesekers hear of our country as a place of settlement.

In conclusion, I would say that before the season closes I expect a larger number of settlers to go north, from this district, than in any former season.

Your obedient servant.

JOHN S. CRAWFORD.

No. 12.

REPORT OF W. H. ROGERS.

WATERTOWN, SOUTH DAKOTA, June 30, 1901.

The Superintendent of Immigration, Ottawa.

Sir, -1 have the honour to submit my report of the work in South Dakota during the twelve months ending June 30.

The results of the year's work are very encouraging indeed. In that time, according to our records, S29 persons, with 216 cars of effects moved to Manitoba and the Territories. Besides these a great many families from the western part of the state, from which there is no direct outlet from the north by rail, drove across the country. No report has yet heen received as to the exact number, but it is asfe to say this additional number will raise the total to at least 1,000 persons. This represents an increase of about 100 rere cent over the previous year.

Not only has there been a gratifying increase in point of numbers, but also in the financial condition of the people who have moved during the period covered by this report. The conditions existing and the methods employed are practically the same as have been outlined in previous reports. There is still quite a 'boom' is Nonth Dakota lands. Hundreds of farmers and speculators from the castern and middle states are purchasing these lands at good figures. Immediately on selling these, farmers look for new homes elsewhere. The importance of looking after these people and directing them to the Canadian west is quite crident. Indeed, much of the success we are able to report is due to the utmost vigilance in this direction. The interest in western Canada continues to widea and deepen. As further evidence of this faret I may say the number of letters written during the last six months has averaged about 210 per month. Moreover, it is a common thing for parties to drive from 40 to 80 relies to meet, e. In the information possible crearing ing the country, rates, reutes, &e., &e. In conclusion, will simply say every indication points to an increasingly large emigration from this state to our Canadian north-west.

Your obedient servant,

W. H. ROGERS,

159

No. 13.

REPORT OF J. H. M. PARKER.

DULUTH, MINN., July 9, 1901.

The Superintendent of Immigration, Ottawa.

Sum—I take pleasure in reporting the work done from this office for the year ending June 30, 1901. I attended several courty fairs, distributed a quantity of literature and delivered 28 lectures, and the time is now at hand when Canada is going to receive the benefit of the advertising and work done in the states. Immigration from now on will increase from 50 to 75 per cent per annum. The number of settlers sent from this office was 553 during the past twelve months, with 65 cars of stock and household goods; \$131,600 cash. The prospect for the next year is very encouraging. I have just returned from a trip through Manitoba and the Xorth-vest Perritories, and I find the crops looking very good with few exceptions. The settlers all seem contented and doing well.

Your obedient servant,

J. H. M. PARKER, Agent, Duluth, Minn.

No. 14.

REPORT OF W. RITCHIE.

GRAFTON, N. DAK., August 7, 1901.

The Superintendent of Immigration, Ottawa.

Sir,-I beg to submit this my report of work done in North Dakota from June 30, 1900, to June 30, 1901.

Number of settlers moved into Canada from North Dakota during above time, 2,203, numbers of cars of effects brought by above settlers, 384; value of each ear, about 8800; making a total of \$307,200 worth of effects brought in.

Your obedient servant,

WM. RITCHIE.

No. 15.

REPORT OF REV. M. BLAIS.

MONTREAL, July 8, 1901.

The Superintendent of Immigration, Ottawa.

Sm,—I have visited several French Canadian centres in the states of Minnesota and Kanasa where I with regret noted much ignorance in regard to the advantages which colonization in our country offers. The astonishment caused by the lectures I gave, and during which I endeavoured to put forth our wealth and the brightness of our future convinced me that with more effort we should be able to transfer to our soil large numbers of our comparitoits.

I attended to the office work during part of the winter, answering numbers of correspondents, who addressed me from the United States as well as from Canada.

During the spring I directed to the west a good number of families coming from the eastern states and the province of Quebec.

I have just returned from Manitoba, where I accompanied about 80 excursionists, all of whom have received excellent impressions by observation made on the spot. The beautiful appearance of the harvest in Manitoba ought to favour our work very much.

Your obedient servant,

M. BLAIS, Priest. O.M.I.

No. 16.

REPORT OF THE REV. H. L. GOUIN.

HOTEL DIEU ST. JOSEPH, MONTREAL, July 5, 1901.

The Superintendent of Immigration, Ottawa,

SR,-I have the honour to submit to you my report for the year ending June 30, 1901.

The first two weeks of the month of July I spent in the Canadian west, enouraging the new settlers, and giving advice to those I had brought, also visiting in company with delegates the districts of Carrot river and Alameda. My delegates have published in different newspapers very favourable reports.

During six weeks I visited the different centres of New England, where I gave several lectrores. With a permanent agency a certain number of French Canadians could be repartiated. However, from experience gained from the American west, I am led to think that the reparticino of my compatitois is much casier to accomplish from Minnesota, North Dakota and Michigan, where free homesteads are practically a thing of the past.

Returning to the province of Quebec, I have given about thirty lectures about Manitoba and the North-west, endeavouring above all to visit the localities where there is less industry, and where the young people are still tempted to go to the United Nutaex. I also distributed about 25,000 pamphlets, newspapers, testimonials, reports, circulars, &c.

Since then I have been occupied with the correspondence and the compiling of a pamphlet, chiefly dealing with the Saskatchewan district.

Several young men have settled in the Carrot river district. The Montana miners with whom I had correspondence, will during the summer explore the most advantageous districts of the Canadian west.

I could not state the number of settlers who have gone to the west through my intervention during the year because I have not accompanied them all. As soon as the railway between Yorkton and Prinee Albert is completed, I have no doubt that the Carrot river vallew will attract a good number of settlers.

I have forgotten to state that I have written numerous articles in the papers.

Your obedient servant,

H. L. GOUIN, Priest, Immigration Ag nt.

No. 17.

REPORT OF DAMASE GAUTHIER.

LAURENTIDES, P.Q., August 28, 1901.

The Superintendent of Immigration, Ottawa.

SIR,-As a report of my work up to the 30th of June last, I have the honour to write to you as follows:--

Under instructions from the department, I have worked principally in the eastern states. I put myself in communication with the French Canadians, who are numerous in this part of the American republic, and I have tried to influence them to come to Canada.

The principal means I have used have been to give lectures. In these lectures I prinsic Ganada, enumerated the advantages it offers, demonstrated the salubrity and mildness of its climate, the grandeur and fertility of its plains, the number, beauty and utility of the lakes and vaters, the extension of its commerce, the brilliant futures which is reserved for it, the benefits of agriculture and colonization. I have given some general observations upon the different centres of colonization.

I gave lectures at Holyoke, Three Rivers, Lawrence, Lowell and Nashua. When l know of any families who still have ties in Canada, I make it my duty to call upon them and engage them to return to their native land.

The third means which I have used has been to distribute literature. After my lectures I do not fail to offer to my audience books and maps upon the different points of colonization. I always carry a good lot with me, and when I run short, I promise to send them some by post. In this way I have distributed about a thousand pamphlets.

The work of immigration and repatriation has a very encouraging outlook in the United States. The prosperity which exists in our country, the progress of the agrioultural class, the success of the dairy industry, have made all eyes turn to the Canadian side. It was because of this that the Canadian immigration last spring was so large. It promises to be still greater next spring.

Your obedient servant,

DAMASE GAUTHIER, Immigration Agent.

No. 18.

REPORT OF C. O. SWANSON.

WATERVILLE, P.Q., July 1, 1901.

The Superintendent of Immigration, Ottawa.

Sm,-I beg leave to submit to you the following report of work done during the last year.

On November 2 1 had the most successful excursion that I have ever had. The excursion was from St. Paul and Minneapolis ever the Soo Line. I had settlers and delegates joining me at different stations along the route. I got a first-elass report, signed by thirteen of the delegates, which report was published in the Winnipe Free Press, and in the Swedish-American Mail, Minneapolis, and forwarded to the department.

On January 1 I started on a trip to the vestern states, and visited a few localities where I thought I could obt the best work. I continued my trip to Alberta to visit the colonies, and to look up the best land on which to settle people this spring. During this trip I got very good letters from some of the first settlers in the colonies. These letters have also been printed in folder form, and are being sent out to the inquiring public, and the letters are doing good work.

This spring I had my annual April excursions from Montreal and Minneapolis. They were a success, especially the one from Minneapolis. The Scandinarians are coming into Canada from the western states in large numbers, and the numbers are increasing every year.

A few parties go occasionally from the east. I sent a party of thirteen from Montreal to Alberta on June 25. I have also had several families direct from Sweden this syring who have mostly gone to Alberta.

You are aware that there has not been much advertising done in the Scandinavian language through the papers this spring, but we have had all we could manage in the way of correspondence from what has been done. Since January 1 we have received at the office in Ottawa 1,500 letters, which have been attended to, and I have answered personally about 800 here at Waterville and while travelling.

The prospect for Scandinavian immigration is good. Our settlers in the west are prospering and are looking for very large crops this year. The markets are good, and I hope there will be nothing to disappoint them.

Your obedient servant,

C. O. SWANSON.

No. 19.

REPORT OF THE LAKE ST. JOHN REPATRIATION AND COLONIZATION SOCIETY.

Quebec, August 12, 1901.

The Superintendent of Immigration, Ottawa.

Sig.—I beg leave to report as follows to your department on the work done by this society jointly with the Quebee and Lake St. John Railway Company, on behalf of immigration and colonization during the year ending June 30, 1901.

One thousand nine hundred and twenty-three new settlers have been directed to the Lake St. John region, divided as follows :

	United States and Canada	
66	France	188
	Belgium	
	Norway	
44	Italy	-1
	-	
	Total, new settlers	1,923

Of course, as in the past, these settlers were transported free by the Quebec and Lake St. John railway, together with their household effects.

Delegations also came from different parts and have proved to be very effective in every respect. As in the past, these delegates have been transported gratuitously by the railway. We have also had delegates from Belgium, France, Finland and Russia. The reports of all of them have been most favourable to the Lake 8t. John region, of which many of them speak enthusiastically from every point from which they have regarded it.

During the past year we had : 206 delegates, representing 111 parishes in Canada and the United States, 38 counties in Canada, 2 states in the United States, 6 different countries.

Three farmers' excursions took place during the year, the success of which surpassed our anticipation. Seven hundred and twelve intending settlers took advantage of these opportunities to visit this fertile region, a number nearly double that of last year, which was 387. Three hundred and seventy-two others have taken advantage of the special half-fare rate existing for those who visit the region with a view to settling there.

This makes nearly 3,150 as the number of persons who, for the purpose of colonization, through our society, have gone into the Lake St. John region during 1900-01, either to visit it with a view to settlement, or to definitely settle there.

The Colonization Department of the Quebee government has been good enough to supply us with attractive advertising matter for our undertaking; and quite recently have had printed for us many thousand copies of a hanger which has obtained many expressions of approval.

⁴ Le Colon,⁴ the organ of our society, founded last March, aids us greatly in our work; it keeps before the public the Lake St. John region by its gratuitous distribution among the prospective settlers, keeping the latter well informed ns to the continued progress of all the district. Regarded from the standpoint of our work, its services are rery valuable.

We have the pleasure of being in a position to state that these settlers who are now coming in are much better provided than in former years. Thus, last year 52 families brought with them complete car-loads of furniture, agricultural implements and eattle, say about 1,040,060 pounds in weight, besides about 1,500,000 pounds in less than car-load lots brought in by the remainder of the settlers, in all, a total of more than 2,500,000 pounds of effects owned by settlers coming into the Lake St. John district.

The dairy industry grows yearly and extends its benefits as far as the more recent settlements of the Lake St. John district. This industry amounted in 1899 to \$291,716, and its output in 1900 to nearly \$500,000, and the 1901 figures promise a still larger increase.

In view of the rapidly increasing immigration movement towards the Lake St. John district, the society has decided to send its sceretary to work out agencies throughout Europe, and it is expected that he will leave during the month of Oetober next.

I trust that you will be satisfied with the present increase in the number of settlers and the continuously growing popularity of the Lake St. John region.

Your obedient servant,

RENE DUPONT, Secretary.

ii.

No. 20.

REPORT OF A. RIBOUT.

MATTAWA, ONTARIO, August 8, 1901.

The Superintendent of Immigration, Ottawa.

Sig.-In accordance with your instructions I have the honour to submit my report for the year ending June 30, 1901.

Having received my appointment as immigration and colonization agent for western Ontario, in order to get a true knowledge of the country. I first started for North Temiscaming, in the provinces of Ontario and Quebec, and made an exploration over that beautiful country.

From October, 1900, to the end of June, 1901, I have delivered in the eastern states and in different places in the province of Quebec 18 lectures illustrated by means of a prwerful acetylene lantern, which I carry along with me with views of the country; in every case the attendance was above expectations, and a keen interest was displayed

During the lectures I have called the attention of my hearers to the magnificence of our lands for colonization, principally on the North Temiscaming in the district of Nipissing, province of Ontario, and in the county of Pontiae, province of Ouebee.

I always when speaking to my audience dwell principally on the farming industry as it is carried out in our country.

I dwelt also on the necessity of raising stock, such as cattle, sheep, hogs, &c., which is of first importance for farming and for the success of farmers.

I have a large correspondence to attend to; I find that when the advertisements in the newspapers are running, the number of letters received is very appreciably increased.

I have published in La Patrie a series of articles concerning the North Temiscaming region, which were well appreciated, as I saw by the numbers of letters I have received and which I answered.

The results from my lectures and correspondence brought up in the course of the spring two families from France, altogether eight souls, who are settled in the vicinity of Mattawa; four families from the province of Quebec, 21 souls, who are settled in the township of Cameron, near Mattawa; one family from Parry Harbour, who are settled in the township of Mattawa, four souls; 21 families from the eastern states were directed to the Temiseaming region, Quebec side, making a total of 163 souls. Sixteen families are settled around Vereer; six are settled around Warenes; seven in the townships of Dunnett, Appleby, Casimir and Jennings, and nine in the French River valley, making atlogether a total of 234 souls.

The capital in money and stock taken by those I got a report from, amounted from \$300 to \$300; that is not bad for a start on good lands, such as are in those regions.

I must also say that a number of families went to those places without calling at my office for particulars; they were directed by the Society of Colonization of Montreal.

In the townships of Bucke, Dymond, Casey, Harris and Hudson, in the district of Nipissing, many new settlers arrived during the fall of 1900 and this spring, through the Bureau of Colonization of Ortario; not less than 20 new houses were erected this year in the New Liskeard village, not counting the new farmers established in the vicinity. That country is progressing very rapidly.

Many land prospectors went through the North Temiscaming country this year, and they all returned home very enthusiastic about what they saw.

Since my appointment as an immigration and colonization agent on the 1st of August, 1000, 1 have received 128 telters of inquiry about lands, quality of soil, &c., to which I replied. I have distributed by nail and other ways 2,000 copies of a pamphlet on the North Temissenning region. I also sent out, on request, 60 maps of the distributed of Nipissing, and 60 of the county of Pontiae, and a quantity of literature issued by the Quebe and Ontario governments.

Many persons asked me for particulars of Manitoba and the North-west Territory; not having visited these parts of the country, I answered them what I have learned myself by literature in my possession.

My policy, or my conscience either, does not allow me to depreciate any part of our country, but at the same time I consider that the North Temiscaming region is one of the finest in Canada; being good soil and suitable for every people, rieb or poor. I have no doubt that if the Ontario and Quebes governments wish to help liberally the opening of good colonization roads, that region will soon be one of the most important in Canada, for it grows every kind of erego, as wheat, cash, salvely, &e., as well as any other territory for colonization, and also because it is easy to establish any kind of industry by developing its numerous water courses.

Your obedient servant,

A. RIBOUT,

Dominion Immigration and Colonization Agent.

No. 21.

REPORT OF R. A. BURRISS.

PORT ARTHUR, ONT., July 13, 1901.

The Superintendent of Immigration, Ottawa.

Sun,—I have the honour to submit my report of immigration work done in the districts of Thunder Bay and Rainy River, for the year ending June 30. Many of the difficulties experienced during the past two years are gradually disappearing. The one great disadvantage is still ir, the way, the want of colonization roads in advance of settlement.

Good roads and other means of communication are a necessity in any country and especially so in a well-wooded one such as this. It is not right that settlers coming from a distance should have to chop and hew their way into their locations. Some have come thousands of miles to find that the last dozen miles of their journey presented the greatest difficulties.

Notwithstanding that colonization road work is in progress in the townships, roads are only being made for the settlers who have mean round have been on their locations one or more years, while many cannot get to their claims, and all new seekers for homes must of necessity force themselves into unroaded territory. The next difficulty in the way of successfully colonizing is the want of re-surveys. As fast as re-surveys are made the locations are taken.

At the present time new locatees are searching with compass and chain for their lots. In the township of Dorion, east of Port Arthur, on the Canadian Pacific railway, the above condition exists.

Some colonization road work was done, but within a month settlers have gone back three to four miles with nothing to guide them to their lots but a trail.

Industrious men with their ears of effects and families have gone in there repeatly. Every land-select sent into Dorion has returned and located a claim, all expressing themselves as being delighted. About one-third of this township has been colonized this spring.

In the townships of Gillies and O'Connor, in Thunder Bay district, the sctlement has prospered, ner families are coming in, all the available lots being take nup. Roads are being constructed, at least fifty miles, and bridges built across the White Fish river, and the superintendeut of the Dubuth brauch of the Canadian Northern has been placing in switches. Whereas two years ago we had twenty-five of a population, we have now four hundred and twenty-five, and all of them are pleased, and are reasonably prosperous, taking into consideration the limited means many of them had when they arrived. This settlement will be extended into Maris, Lybeter and Conmee. We are calling for roads and surveys. About twenty-five families of Finlanders are located here. Last full two of their leading mene came to me with their preacher wishing treached. Last full two of their leading mene came to me with their preacher wishing trendent arranged that he might make semi-monthly trips and hold religious services.

All of the available land in Blake has been entered, and some of the settlers are making creditable showings. Some more road-work has been done, and it is important to have the work extended as far as possible next year in order to admit of further

settlement. The most prosperous community of farmers in this district is in slate river valley. Some things that contribute to the great success of these people is their proximity to Port Arthur and Fort William over good roads. Their land is very easily eleared, and of the best quality. Men of some means have located here, many of them from the States. The Illinois settlement are adjusting themselves splendibily to the conditions of this country while many former Canadians are coming from South Dakota. One day two weeks ngo two ears of fine stock, consisting of four head of layers and iffteen head of earthe, were unloaded for this section. One car eams in from South Dakota, and two more from the same section are to be here in October.

In the township of Oliver, a number of improved farms have been purchased by new settlers, who are doing spieddidly. One genetheman has started a dairy and markets one hundred pounds of butter per week in Port Arthur. Eighteen families came with this gentleman to New Ontario and all of them remained but two. One gentleman from South Dakota recently contracted for one thousand acres out of which to make a dairy farm. People from all over the continent are asking for transportation rates and coming to Port Arthur and Fort William, and all the smaller towns along the railroads of the district, to go into business. Carpenters, mechanics and common labourers are coming for mall quarters with their families and have no trouble in finding employment. It is next to impossible to find a house to rent, while new buildings are going up in all directions.

Little progress can be nade in the settlement of the lands of Rainy river until the Canadian Northern railway is completed from Port Arthur to Winnip z. We have a million aeres of fine agricultural land there, some twenty-four townships open to free grant now. There has been a general inflow of settlers this year, but, probably nowhere are roads in granter demand and more difficult to make for the want of gravel. The settlers who have been placed in there during the past three years from the United States are prospectous and happy, having church and school.

Great preparations are being made to push the settlement of Rainy river. The Canadian Northern has given settlers rates from Winninge to the mouth of the river, and many settlers are availing themselves of them, while at Port Arthur is located the Immigration building, for the accommodation of all settlers from the United States and eastern Canada. Transportation rates are procurable from both railways contering her. In the near future we can offer settlers every advantage.

We are securing a desirable class of settlers, men are coming who wish homes. They have added many thousand dollars to the wealth of New Ontario. Young men are coming with their brides to make homes. Ninety foreigners recently applied for naturalization in Port Arthur. They have become British subjects. Many of the new settlers on Rainy river are anxious to take out naturalization papers.

It has been my aim to induce immigration from foreign countries. Your department sent me to the United States to speed February and March lecturing and distributing literature. I visited Michigan, Ohio, Indiana, Kentucky, Kansas, Missouri and Iowa. Everywhere I was received with the greatest courtesy. Churchas, townshalls, colleges, high-schools, and other places were thrown open free, while the people seemed to be delighted to hear of Canada and her development. But notwithstanding all this. I assisted about three families from eastern Ontario for every one from the United States. I have a man now located at Red Deer, Alberta, from Illinois, who expected to come here, but could not, who wild devote much of his time to circulating literature and helping others from his state in settling there, and several parties are arranging to go.

Owing to the great influx of settlers into Thunder Bay and Rainy River districts this year it has been almost impossible to keep a record of the exact number. They eams in vin Winnipeg, Tower and Fort Frances, Duluth, and Detroit. Through the influence of my lectures, the eirendation of literature, and the many articles printed in the United States papers, my work has been more of a general character. It has been a belt to all our United States agencies. From one locality in Wiscowsin we had ten

families, former Canadians, who came with all their effects, one a merchant with enough means to purchase property and go into the mercantile business.

At a very low estimate, we have had from the United States alone four hundred people with all their possessions.

The population of Port Arthur alone the past year has increased eight hundred. The Rainy river valley had about nincteen ears of settlers' effects from all places ; we have had ten cars unloaded here, also two saw-mills to go into the country. Immigration to our district has been most flattering. We have had nære population during the past two, than the previous twenty years. We had sixteen families from one county in eastern Ontario, all with farms of their own and prospersous. New settlers are going into dairying, stock-growing, gardening, and one man into bee culture with prefit. The immigration hall in Port Arthur is free to all and of great service to the settler. Here they store their effects and leave their families while being located. Land guides are furnished free. Ninety per cent of the settlers are hapy and prospersous.

Your obedient servant,

R. A. BURRISS.

No. 22.

REPORT OF THE REPATRIATION AND COLONIZATION SOCIETY OF MONTREAL.

The Superintendent of Immigration, Ottawa.

Suc.—I have the honour to submit the eighth annual report of the operations of this society, covering the period between July 1, 1900, and June 30, 1901, during which S1S persons, adults and children, have settled upon lands in the provinces of Quelece and Ontario as well as in Manitoba and the Canadian North-west Territories, under the augines of this society, and the number of visitors or prospective settlers to the different colonization centres was 307, making a total of 1,185.

The settlers were distributed as follows :----

Gaspe																	63	
Matapedia																		
Lake St. John																		
North of Montreal																		
Lake Temiscamingue																		
Northern Ontario																		
Canadian North-west																	16	
		4.1															010	

The visitors were divided in the following manner :-

10
13
25
9

According to their birthplace the settlers reported at the offices of the society may be classed as follows :--

From Canada, 600, from the United States, about 150; and the balance from Europe. It is important to remark here that the officials of the agency are not authorized to issue settlers' tickets to immigrants from Europe destined for the west. Only those who come to settle in the eastern provinces are recorded. However, the requests for information coming from France, Belgium, Switzerland, &c., have increased perceptibly since the great exhibition at Paris.

I am happy to add that in the districts where it is possible more closely to control the colonization movement the numbers furnished each year by our society agree pretty well with those of the last census.

But as to the general result of our operations during the period covered by this report, I erget to have to state that the number never went so low, even during the first year of our labours. Such a decrease, during the remarkable era of prosperity, seems strange and demands explanation. Obstacles have arisen, which have largely neutralized our efforts and the effectiveness of our work. To mention one—the essential condition, the first matter of all colonization, is the land, the facile granuing of lots. It, must be acknowledged that in the province of Quebee this is the most deplorable deficiency. North of Montreal and Ottawa, as well as in the Temiseamingue, the Gaspe and Matapedia districts, the lands open for settlement have not been subdivided, and there are no reads. All that I have said on this subject, in my annual reports of 1896 and 1890, is still true, with aggravation, and the development of the country is thereby greatly related.

Your obedient servant.

T. A. BRISSON, General Agent.

No. 23

REPORT OF T. O. CURRIE.

MILWAUKEE, WIS., October 18, 1901.

The Superintendent of Immigration, Ottawa.

SIR,—I submit my annual report of work done in the state of Wisconsin during the year beginning July 1, 1900, and ending on June 30, 1901.

As previously reported, by instructions from the department, I opened an office in the eity of Milwaukee in July, 1000, and as soon as settled proceeded at once with the general work in the state.

We began attending fairs last year in August, and continued attending same until along in October, report of which I have already submitted to the department.

I am pleased to report that during the year we sent 511 people from the state of Wiseonain into the Dominion of Canada, some going into northern Ontario, some to Manitoba, but a greater portion going to Saskatchewan and Alberta. Many others, I believe, have gone from this state through our inflacence of which we have no track, only that they have left. Many avail themselves of the spring excursions; we having keyt them theorogly by setted on that line, they took advantage of same. Seventy-five lease of settlews we have no track, but they bave left this state were ex-Ganadians. They are a very desirable elsas of settlers. With but we exceptions they brought with them estimation in eash and three ear-loads of freight. These people purchased three sections of land near Red Deer, and many others are following to locate in the same district. The settlers brought with them sould of 8532,000 and 22 ear-loads of freight.

While the work has not been so extensive in some quarters as we would have liked it to have been, we are more than pleased with the elass of settlers that we have been able to secure.

Our work at the fairs we attended last fall proved to be fertile seed sown in good ground.

We still meet with strong competition in this state from large land companies, and particularly from two lines of railroad that hold large trates of land in the northern part of the state, the railroad companies in many instances giving free transportation to settlers and their household effects, who will purchase their lands, and in every instance giving free transportation to those in search of homes who will go and view those lands.

On returning to my office last fall at the conclusion of fairs. I found myself overwhelmed with work and calls for interviews from all parts of the state. During the year we visited nearly every county in the state, and some counties many times. I continued the work along until February, when you were good enough to send to my assistance Mr. MacLachian, who ably assisted mo in the office. I left him in charge of the office work, taking the outside work myself, but as far as possible in emergency cases he would go out to assist me at points which I could not reach.

With brighter prospects ahead of us for the coming year, full of hope. I trust our most sanguine expectations may be crowned with success, and above all that we may be able to secure such an honourable class of settlers in future as we have in the past.

> Your obedient servant, T. O. CURRIE.

1-2 EDWARD VII.

SESSIONAL PAPER No. 25

A. 1902

PART III.

DOMINION LANDS SURVEYS

25-iii-1

SURVEYS.

REPORT OF THE SURVEYOR GENERAL.

Department of the Interior, Topographical Surveys Branch, Ottawa, August 23, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior, Ottawa.

SIR,—I have the honour to submit the following report upon the operations of the Topographical Surveys Branch during the twelve months ending June 30, 1901.

Between June 30, 1900, and the end of the calendar year, twenty-six survey parties were employed on ordinary land surveys in Manitoba, the North-west Perritories and British Columbia. In 1901, the number of parties engaged upon the same kind of work was thirty. In addition to the above, two parties were defining the Dritish Columbia-Yukon boundary, and one was exploring in the Maekenzie and Keewatin districts. Four surveyors are permanently located in the Yukon Territory, and are making surveys under the direction of the Commissioner of the Territory.

MANITOBA,

Cyrus Carroll, D.L.S., during the last haff of 1900, completed the survey of the outlines of townships 1 and 2 in ranges 11, 12 and 13, east of the principal meridian, and also subdivided certain portions which appeared to be suitable for settlement. In townships 1 and 2, ranges 11 and 12, 36 sections were surveyed most of which were occuried by settlers. He completed his second's work on October 12.

J. A. Coté, D.L.S., is engaged in making surveys in south-eastern Manitoba, in the neighbourhood of the Manitoba and South-Eastern Ralivey. He wais instructed to survey all the meridian outlines intersecting the railway line, and to subdivide such of the lands on the railway, readjacent to it, as may be required. It is also to subdivide portions of tormship 1 in ranges 8 and 14, and to run the outlines of tormship 5, range 9, courships 3 and 4 in range 10, and tormship 9, range 11, act of the principal meridian. He reports that he has completed the surveys required in township 5, range 9, and it ownship 5.

R. Bourne, D.L.S., was instructed on September 19, 1900, to make a resurvey of township 17, range 1, and township 19, range 2, east of the principal meridian, and to survey the sixth base line from the principal meridian eastward, a distance of twelve miles. Since then, he has been instructed to survey the principal meridian through townships 21, 22, 23 and 24, to project the seventh base acress range 1, and to run the meridian exterior between ranges 1 and 2 east from the seventh base to the sixth correction line. The has completed the resurvey of township 17, range 1, east of the principal meridian.

C. P. Aylsworth, D.L.S., completed the subdivision of township 33, range 30, township 35, in ranges 30 and 31, and township 38, range 30, west of the principal meridian, in the Thunder Hill Poukhobor reserve. He was afterwards instructed to re-mark some of the corners, which had become obliterated, in township 32, range 27, west of the principal meridian, and also to re-mark about thirty-eight miles of township outlines in the Swam iver district, which had been runn in winter, and were,

25-iii-11

therefore, not mounded. This season, Mr. Aylsworth was instructed to re-surrey township II and I2, in ranges 7 and 8, and to re-stabilish a number of corners in township 13, range 7, east of the principal meridian. He has also been instructed to subdivide the south half of the north-east quarter of section II in township 13, range 6, east of the principal meridian, into lots, with an area of about one are each. The Canadian Pacific Railway station of Tyndall is located upon this section. Mr. Aylsworth reports that he has completed the resurrey of township 12, in range 8.

H. B. Proudfoot, D.L.S., has this year been awarded a contract for the subdivision of a number of townships in central Manitoba lying between the south end of Lake Winnipeg and the principal meridian.

A. F. Martin, D.L.S., is Swamp Lands Commissioner for the Manitoba government, but in connection with that work he has instructions from this department to colonization road from Teulon northerly along the Linestone ridge for a distance of about sixty miles. Mr. Martin has been working, up to the end of June, in the country between lakes Winnipeg and Manitoba.

Thos. Turbbull, D.L.S., was instructed to make an exploratory survey of the country between lakes Winnipeg, Manitoba and Winnipegosis. He was eauged in this work during the latter part of 1900, leaving the field about the end of January, 1901. He reports that the best land is close to the lakes, while the interior is mostly swamps, markes and story ridges. A map showing this exploration is appended.

C. A. Bourget, D.L.S., who was working under contract on the west side of Lake Winnipegois in the Dauphin district, finished work for 1900 by subdividing township 34, in ranges 19 and 20. The country where he was working is covered with a dense growth of timber with a great quantity of windfall, and is partly burnt over.

Jas. Dickson, D.L.S., who was engaged during 1900 in making surveys in the north-western part of Manitoba, completed his work on October 11; then, according to instructions of September 15, he inspected a number of townships which had been surveyed under contract.

J. C. Desmenles, D.L.S., was engaged in surveys in the Dauphin district during 1900. During the last half of the sensor, he surveyed the north outline of township 31, range 20, west of the principal meridian. He then produced the eighth base line westward for three miles, and ran the east outline of township 32, range 24, and the north, east and south outlines of township 27, range 23. He completed the season's work by subdividing township 27, range 23, and a part of township 25, range 23, west of the principal meridian.

NORTH-WEST TERRITORIES.

J. J. Dalton, D.L.S., is engaged in surveys in Assinibioia, near Yorkton and Pelly. A number of lakes in that district hwing dried up, it was thought advisable to subdivide their beds; Mr. Dalton has been instructed to do the work. These lake beds occur in townships 24 and 25 in range 1, townships 24, 25 and 26 in range 2, townships 23, 25 and 26 in range 3, and townships 23, 24 and 25 in range 4, west of the second meridian. He is also to subdivide township 32, range 30, and townships 01 and 32 in range 31, west of the principal meridian, and to make a traverse of the south bank of the Assinhbeine river in township 32, range 1 and 2, west of the second meridian. The north side of the original meridian, and to make a traverse of we sets of posts, across ranges 1, 2, 3 and 4, west of the second meridian, and Mr. Dalton has been instructed to remove these belonging to the old system of survey ; he is also to re-mark a number of obliterated corners in township 25, range 5, west of the second meridian.

A. J. Brahazon, D.L.S., had instructions to dispose of various survey outfits which had been stored between Dauphin and Yorkton, and then to renew the survey marks in township 23, ranges 5, 6 and 7, and in township 24, ranges 6 and 7, west of the second meridian. He found that most of the creeks and sloughs which were

shown in the original surveys of these townships, had dried up entirely. He maished his work about October 26.

A. F. Martin, D.L.S., was last year working under contract west of the second meridian. During the last half of the year, he completed the subdivision of townships 33 and 34, range 4, townships 33, 34 and 35, range 5, townships 32 and 33, range 9, and townships 27, 28, 33 and 34, range 10.

A. Bourgeault, D.L.S., was working under contract during 1900 in the country work of Prince Albert. He completed the subdivision of township 46 in ranges 8, 9 and 10, and township 47, in ranges 8 and 9, west of the third meridian. This season, Mr. Bourgeault has been awarded a contract in Saskatchewan, north of Quill lakes. He is to subdivide township 35 in ranges 11 and 12, and township 36 in ranges 11, 12 and 13, west of the sect of meridian.

P. R. A. Belanger, D.L.S., was working during 1900 in the vicinity of Pasquia mountain. During the last half of the season, he produced the eleventh base line as far as range 15, and also ran the east boundary of range 9 south to the eleventh correction line. This season, Mr. Belanger is working in the country east of Prince Albert. He has been instructed to survey the thirteenth base line from the second meridian westward to the east boundary of range 20, and also to ran the east outlines of townships 45.4, 64.7 and 48. in ranges 5 and 9, west of the second meridian. Mr. Belanger left for the west about the end of April. He has already completed the base across ranges 19, 15 and 17.

James Dielson, D.L.S., during the senson of 1901 has been instructed to survey certain township outlines between Prince Albert and the second meridian, north of the twelfth base line. He has already completed the east outlines of townships 45 and 46 in ranges 6.7 and 3, we of othe second meridian.

J. A. Belleau, D.L.S., was engaged during 1900 in making aurveys in the Thick-wood hills. He first ran eight miles of the meridian between ranges 0 and 7 to the north outline of Petty-quaw-ky Indian reserve; then he surveyed the meridian outlines of the Doukhobor reserve near Carleton, and abso the north outline of two-ship 46, range 7, west of the third meridian. This season Mr. Belleau, with his assistant, Mr. P. W. Currie, is surveying in the country east of Prince Albert in Saskatchewan. He was instructed to complete the twoffth base line across ranges 9, 10 and 11, and to survey the east outlines of township 44 and 48, in ranges 10, 15 and 14, west of the second meridian. The started work at the northeast corner of township 44, more 12, but on account of the exceptionally wet season, and the swampy nature of that part of the country, he was completed, after ranning about two miles of the heav, to handnow work there; he has commended work on the meridian outline between ranges 13 and 14.

C. C. DuBerger, D.L.S., was engaged in renewing corner marks in Northern Alberta. He had also been instructed to subdivide township 52, range 21, townships 49, 50 and 51, range 22, and townships 48 and 49, range 23, all west of the fourth meridian. He renewed the corners in townships 53 and 54, in ranges 19 and 29, west of the fourth meridian, and also the corners along the north outline of township 52, range 21. He finished his season's work by completing the subdivision of township 52, range 21, west of the fourth meridian. Mr. DuBerger's work for 1900 consists in running township outlines, adjoining the ninth and tenth base lines between ranges 4 and 10, west of the second meridian.

L. P. Gauvreau, D.L.S., was given a contract in 1900, to subdivide townships 43, 44 and 45, in ranges 8 and 9, west of the third meridian. He completed three townships, but on account of irregularities of survey, the work has not been accepted.

J. J. McKenna, D.L.S., was given a subdivision contract in the Cypress hills. During the hast half of 1900, he completed the subdivision of township 5, in range 44, and township 6 in ranges 24 and 27, west of the third meridian. Mr. McKenna is again working under contract this season. He has been instructed to subdivide

certain townships in Red Deer district in Central Alberta. His work includes township 37, in ranges 17, 18, 19 and 20, township 38 in ranges 17, 18, 10, 20 and 21, and township 30, in range 18, west of the fourth meridian. Mr. McKenna reports that he has not been able to start work as early as he expected on account of the wet condition of the country.

E. J. Rainborh, D.L.S., during the last half of 1900 completed his subdivision contract in southern Alberta. The townships surveyed lie for the most part in the district which has been opened up by the construction of the Alberta Railway and Coal Company's railroad, which runs south from Lethbridge. This year, Mr. Rainboth has again been given a contract to subdivide a number of townships in southern Alberta, south of Medicine Hat, and in the Cypress Hills.

G. J. Lonergan, D.L.S., is engaged in making scattered surveys in southern Albera to meet the requirements of the settlers in that district. This is the work that Mr. J. E. Woods was engaged in last season. Mr. Lonergan has been instructed to subdivide township 14, in ranges 1, and township 7, range 24, vest of the fourth meridian, and township 14, in ranges 1 and 2, township 15, range 2, townships 16 and 20, in range 3, and township 16, range 4, west of the fifth meridian. He is also to subdivide parts of township 1, range 25, township 1, in range 29, and 30, township 11, range 29, and townships 2 and 11, in range 30, west of the fourth meridian, and townships 5 and 10, in range 1, and township 13, in range 2, west of the fifth meridian. He is also instructed to make a traverse of part of Milk river in township 2, range 21, west fifth meridian. He reports having finished work in township 2, range 23, and in township 7, range 26, west of the furth meridian.

J. É. Woolg, D.L.S., was engaged all the season of 1900 in southern Alberta making various surveys to meet the requirements of the settlers in that district. He surveyed the meridian outlines of townships 2 and 3, in ranges 16, 17, 18 and 19, west of the fourth meridian. He also subdivided portions of township 37, range 29, township 1, range 29, township 1, range 29, west of the fourth meridian, and township 6, range 2, west of the fifth meridian. The latter township 6, same 2, west of the fifth meridian, the latter township 6, range 3, west of the fifth meridian, through the Crow Nest Pass to the western boundary of Alberta, and also made a traverse of the railway through this district, and a part of the Crew Nest Pass to the western boundary of Alberta, and laso made a traverse of the railway through this district, and a part of the Crew Nest Pass. During August, he traversed part of the Vermillion lakes and Forty-mile Creek in the Rocky Mountains Park of Canada. Before coming east, he examined a subdivision contract in southern Alberta Railway.

C. E. Towle, D.L.S., has been awarded the contract for the subdivision of a number of townships in the vicinity of Red Deer in Alberta. His work comprises townships 31 and 32, in ranges 21 and 23, townships 31, 32, 33 and 34, in range 23, and townships 31, 32 and 33, in range 24, west of the fourth meridian.

G. P. Roy, D.L.S., has accepted a contract in Alberta near Red Deer. He is to subdivide townships 35 and 36, in ranges 19, 20 and 21, and townships 33 and 34, in ranges 21 and 22, west of the fourth meridian.

W. F. O'Hara, D.L.S., was engaged during 1900 in making surveys in the Finlanders' reserve, west of the firth meridian. During the latter half of the season, he completed the meridian outlines of townships 41, 42, 43 and 44, range 4, townships 39, 40, 43 and 44, range 5, townships 38, 39 and 40, range 4, and of township 40, range 6,

J. N. Wallace, D.L.S., is engaged on the survey of outlines in the Finlanders' reserve, vest of the fifth meridian. He has reopened part of the thirteenth base north of Pigcon lake, and has completed the survey of the east outline of townships 45, 46, 47 and 48, in range 2, west of the fifth meridian. Mr. Wallace reports that he is progressing rather slowly on account of the heavy timber with which the country in this neighbourhood is everyed, and also on account of the smoon being exceptionally wet.

A. McFee, D.L.S., completed his 1900 contract by subdividing townships 41 and

42, in range 2, west of the fifth meridian. This season, Mr. McFee is working under contract in Alberta, west of Red Deer. He is to sublivide township 38, range 3, township 39, ranges 2, 3, 4 and 5, and township 40, range 5, west of the fifth meridian.

John Molloy, D.L.S., was given a survey contract in western Alberta. He is to subdivide townships 40, 41, 42, 43 and 44, in range 3, and township 40, in range 4, west of the fifth meridian.

Hugh McGrandle, DLS, was given a contract for the subdivision of several townships south of Pigoon lake in northern Alberta. The contract includes townships 45, 44 and 45, range 2, and townships 45 and 46, range 1, west of the fifth meridian, and townships 45 and 40, range 2, west of the fourth meridian. He is also to make as the traverse of Battle and Blindman rivers, and to renew certain corners in this neighbourhood which had been marked with wooden posts.

J. C. Desmeules, D.L.S., is this senson engaged in surveying in the Edmonton district. He has been instructed to subdivide township 49, range 2>, west of the fourth meridian, and townships 47, 48, 49, 53 and 54, in range 1, and townships 49 and 53, in range 2, west of the fifth meridian.

Louis Gosselin, D.L.S., is at work in the Beaver hills near Edmonton. He was awarded a contract for the subdivision of townships 49, 50 and 51, in range 22, and townships 48 and 49, in range 23, west of the fourth meridian.

R. W. Lendrum, D.L.S., was working under contract during 1900. He finished his work for the season by subdividing townships 43 and 44, in range 1, west of the fifth meridian. This senson, Mr. Lendrum has been awarded a contract in the Beaver bills, east of Edmonton. He is to subdivide township 50, in ranges 20 and 21, and parts of township 51, in ranges 20 and 21, and township 52, in range 20, west of the fourth meridian.

J. B Saint Cyr, D.L.S., was awarded a contract in northern Alberta. He is to subdivide townships 59 and 60, in ranges 24, 25 and 26, west of the fourth meridian. He left for the west early in June.

J. K. McLean, D.L.S., was engaged during 1900 in making surveys west of the fourth meridian in northern Alberta. He was instrueted to renew the survey marks in township 57, in ranges 22, 23, 24, 25 and 26, and to complete the subdivision of township 55, in ranges 17 and 18, together with the sisteenth base line and some adjacent meridians. During the last half of the season, he renewed the corners in township 57 in ranges 29 and 23, and subdivided part of township 58, range 18. This season, Mr. McLean is working in the Edmonton district. His instructions are to complete the subdivision of township 55, in ranges 24, 25 and 26, west of the fourth meridian, and to run certain township outlines between the fifteenth and sixteenth correction lines between the meridian was obligred to re-run it. He has completed the eastern boundary of township 55 and 60, range 26.

¹ L. E. Fontaine, D.L.S. was instructed in 1900 to produce the fourth meridian and run various outlines adjoining it. He commenced work by re-marking the fourth meridian between the fifteenth base and the fifteenth correction line, and then produced it northward as far as Cold lake. He then ran part of the outlines of township 63, ranges 1 and 2, township 64, ranges 2, 3 and 4, and of townships 63 and 64, range 5. In April of this year, Mr. Fontaine received instructions to survey parts of the sixteenth and seventeenth base lines and the intervening block outlines, this being a continuation of his last season's work; but while proceeding to the field he met with an aceitont; this party has been disbanded.

A. C. Talbot, D.L.S., during the last half of the season of 1900 was working in northern Alberta, west of the fifth meridian. He subdivided township 52, range 2, completed the subdivision of township 53, range 3, and subdivided part of township 53, range 1. He reports that he was greatly delayed during the latter part of the season by the wet weather. This season, Mr. Talbot has been sent to Lesser Slave lake to make surveys which have been asked for by the settlers in that neighbourhood. He has been instructed to lay out the occupied land into lots of suitable size.

C. C. Fairchild, D.L.S., left early in May for Peace river, near Dunvegan, in the district of A thabasca. He was instructed to survey township outlines and subdivide the necessary townships in the settlement of 'La Société de Colonisation de la Rivière La Paix' He is to run the twentieth and twenty-first base lines eastward from the sixth meridian, project the adjacent meridian outlines, and subdivide subdivid

BRITISH COLUMBIA.

J. E. Ross, D.L.S., during the last half of the season of 1900 was engaged in making surveys in the Kamloops district of the railway belt in British Columbia. He surveyed various lots along Bonaparte river, and the Caribou road, and also subdivided portions of township 20, in ranges 23 and 24, west of the sixth meridian. From here he went to Spallumcheen river, along which he made a continuous section survey as far as the east side of Mabel lake. Before leaving the field, he located the northerly and easterly boundaries of timber berth No. 78. During the season's operations, he located and marked the boundary of the railway belt on the Lillooet road, Caribou road and Bonaparte river, also in several places on the south side of Spallumcheen river. This season, Mr. Ross is continuing his work in the railway belt. He has traversed the Columbia river near Revelstoke, and made the required surveys in connection with lots 513 and 499. Kamloops division of Yale district. He tried to locate lot 525, group 1, Kamloops, but did not succeed. Several small surveys around Revelstoke have been made, and Gold Hill station has been connected with the Dominion section lines. Portions of townships 18 and 19, range 14, and township 21, range 13, west of the sixth meridian, have been subdivided ; some land west of Mara station has been surveyed, and the limit of the railway belt on Adams river and Adams lake has been located. Mr. Ross reports that several other surveys which he expected to make early this season have been delayed by the high water in the rivers.

W. J. Deans, D.L.S., was engaged during the season of 1900 in the railway belt, British Columbia, his surveys being largely to meet the requirements of settlers. He commenced work in township 3, range 30, west of the sixth meridian, moving from there to Vedder mountain, where he made the surveys required in townships 19 and 29, east of the coast meridian. In the Morris creek valley he surveyed parts of townships 4 and 5, in range 29, west of the sixth meridian, and along Chillwack river and Slesse creck, parts of township 26, east of the coast meridian, and township 1, in ranges 29 and 29, west of the sixth meridian, were surveyed. While in this district, he endeavoured to locate some of the marks on the international boundary, but without success. This year, Mr. Deans is to continue the surveys in the western part of the railway bell. He has been instructed to renew the marks of the Canadian Pacific traverse along the railway from North Bend to Lytton, and also to subdivide some of the land near the international boundary on Slesse creck. He is also to make the necessary surveys in townships 11, 12, 13 and 14, in ranges 26 and 27, township 4, range 30, and township 15, range 25, all west of the sixth meridian.

A. O. Wheeler, D.T.S., was to commence work about July 1 in British Columbia, among the Selkirk mountains. It was thought advisable to prepare a map of the country in this neighbourhood ; to Mr. Wheeler has been entrusted the field work in connection with its preparation. The work will be done by means of photography, and by using the Conadin Pacific railway as a temporary base; a secondary triangulation will be expanded for the purpose of fixing camera stations and approximately locating peaks.

BOUNDARY SURVEYS.

Geo. White-Fraser, D.T.S., was engaged during 1900 in a continuation of his previous season's work of establishing atronomical stations along the part of the sixtieth parallel of north latitude, which forms the boundary between British Columbia and the Yukon Territory. He went in by way of Skagway and Bennett to a station on the southern extremity of Little Windy Arm, which had been established the year bfors. Starting from this station, he worked westward establishing a monumeut on an expansion of West Arm river; a second on the east side of the valley of a river which crosses the boundary about seven miles cast of Takhini river; and a third on the east bank of Takhini river. Then failing to find a pass across the watershed between the Takhini and Aleke rivers, he way of the Dalton trail. He established a fourth movument on the east bank of Aleke river, a shord distance abore 'Horse Chargon', and a fifth on the west bank of a tributary of the Alsek, thus completing his work for the season.

A. Saint Cyr, D.L.S., was engaged during last season in a continuation of his previous season's work on the boundary between British Columbia and the Yukon Territory. Astronomical stations had been established along part of this boundary at points about twenty miles apart, and Mr. Saint Cyr was erecting intermediate stations placed about one mile apart. These intermediate stations are marked by a threefoot iron post driven flush with the ground, and alongside of this a wooden post at least four inches square, is placed, around which an earth or stone mound is built. Instructions were given him in April, 1900, to complete the posting and mounding of the line between Bennett and Atlin lakes, and to continue the survey as far as Teslin lake. During the season, he completed about one hundred miles of the boundary. The first part of the season, the weather was most favourable, but during the last two months he encountered several snow storms which delayed the work greatly. The linc between Bennett and Atlin lakes, a distance of thirty-six miles, was marked with forty-two monuments. This part of the line was described in Mr. Saint Cyr's report of 1899. The portion between Windy arm and Taku arm, about sixteen miles, is the most mountainous part of the boundary, and in June, snow several feet deep still lay on the slopes. Between Taku arm and Atlin lake, a distance of fourteen miles, the country is covered with a dense forest of spruce and pine. The highest part of this stretch is near Taku arm where the line reaches an elevation of about seventeen hundred feet. Between Atlin and Teslin lakes, the country is broken only by low hills, which are mostly eovered with a heavy growth of pine, fir, and spruce, which in most cases reaches to the hill tops. Between these two lakes, fifty-one monuments were erected. About one hundred and fifty photographs were taken during the season, which give a good idea of the country in which this boundary lies.

EXPLORATORY SURVEY FROM GREAT SLAVE LAKE TO CHESTERFIELD INLET.

J. W. Tyrrell, D.L.S., left Ontario the end of January of last year to explore the country between Great Slave lake and Chesterfield inlet on Hudson bay. He completed the survey and returned to Hamilton, Ont., on December 14 last, where he has since been engaged preparing plans and a report of the exploration.

YUKON TERRITORY.

The system of Dominion land surveys in townships and ranges has not been extended to the Yukon Territory. It was considered that the large expenditure necesary to subdivide the country into townships and sections was not commensurate with the small proportion of the land for which a demand might be expected to arise in the near future. Surveys are accordingly made under the provisions of section 19 of 60-61 Visc. (Angeter 29, which authorizes the survey of lands in the Yukon district and in the remote parts of the unorganized portions of the North-west Territory in lots of such size and shape as may be found advisable. Under this section, every applicant

1-2 EDWARD Vil., A. 1902

for a parcel of land has a survey of such parcel made by a duly qualified land surveyor, and the plan of such survey is submitted for approval to the Surveyor General. The arrangement is inexpensive and permits the disposing of land any where without the delays incurred in the extension of the township surveys, but it requires careful control and supervision to prevent encroachments of one lot upon another. Up to the beginning of 1900, very few lots had been surveyed in the territory, but as soon as lands commenced to be in demand, it became imperative to bring the surveys under proper supervision. With that object in view, detailed instructions were prepared for the survey of lots, town sites, mining claims, mill sites, roadways, and generally all surveys intended as a basis for the issue of patents, it being understood that surveys for bases, such as placer claims, hydraulic concessions, &c., would remain, as heretofore, under the direction of the Commissioner of the Territory. It was also arranged to send to the territory an experienced officer to organize the surveys ; he was to remain one year in the country so as to become conversant with the requirements of the service, after which he was to return to Ottawa. With the assistance of his experience, final measures were then to be devised for dealing with the Yukon surveys. Mr. C. C. Chataway was appointed to the position as examiner of surveys, and started for Dawson at the end of April, 1900. He was authorized to issue to Dominion land surveyors the general instructions printed for their use, to sign them for the Surveyor General, and to issue supplementary instructions for such contingencies as might arise. The returns of the surveys were to be handed over to him, and if found satisfactory, were to be forwarded to the department for confirmation. If not satisfactory, they were to be returned, with his remarks, to the surveyor. He was to organize a system of record of the surveyed lots such that any lot might be properly located and easily referred to, every surveyed parcel of land being given a lot number in a group. The group was to be about 50 miles square, but this dimension could be departed from if any reason existed for so doing.

A survey party in charge of Mr. C. W. MacPherson, D.L.S., was placed under his direction and subject to his orders for the purpose of rectifying or completing imperfect surveys, and collecting such additional data as were necessary for the control of the surveys. It was suggested to establish a number of reference marks necurately located, at least over the Klondike district. On this subject, as well as upon other matters of importance, he was to consult the Commissioner of the Territory.

In November, 1900, Mr. Chataway, at the request of the Commissioner, submitted a scheme for a permanent survey office at Dawson. The plan proposed was to continue the arrangement adopted as a temporary expedient for one year when Mr. Chataway was sent to the Yukon Territory. The officer in charge was to be called "Director of Surveys," and his surveyor was to be 'Inspector of Surveys." The Commissioner having recommended the adoption of the scheme with some alight modifications, his recommended the adoption of the scheme with some alight modifications, his recommendation was approved, and Mr. Chataway was appointed as Director of Surveys. The Surveys Office at Dawson now consists of Mr. Chataway, Director of Surveys, Messrs. P. F. X. Genest and E. B. Bolger, draughtsmen, and Mr. H. B. M. Brown, typewriter. A chief draughtsmen has still to be appointed. The Dominion land surveyors on the local staff are Messrs. Jas. Gibbon, P. T. C. Dumais, C. W. MacPherson and A. J. McPherson.

Under the present arrangement, all surveys to be used as a basis for the issue of patents are dealt with by Mr. Chataway in the same manner as before. Hydraulic and placer claims and other surveys are subject to such instructions as he may receive from the Commissioner, under his control, and the returns of such surveys are examined and approved by him before being placed on record in any office in the territory, or before being forwarded to the department. He keeps for record duplicates of all plana passing through his hands, and files them under consecutive numbers. He makes all compilations of plans that are necessary for the use of the various officials at Dawson.

The public are allowed to examine the plans filed, the charge for searching a plan being ten cents in all cases, without exception. Copies of plans or compilations are also furnished at a charge based upon the size of the plan and the amount of work. His office is used as an agency for the sale of maps published by the department.

After the sensor's operations are well begun, the Director of Surveys is expected to visit the various parts of the territory in connection with his duties, to examine the surveys made, as well as the general condition of the country, and to ascertain what is, or is not, advisable in connection with the expenditure on surveys. During his absence, or illness, one of the surveyors of the staff takes his place.

The duties of the chief draughtsman are to check survey returns, to plot main compilations, and such other duties as may be assigned to him by the Director of Surreys.

The typewriter, besides performing his ordinary duties, receives and accounts for all fees for searches, copies of records, sales of maps, &c. If exceps a record of all filings and returns, and looks up records for the public when required.

178 lots in the territory have been surveyed and confirmed since the inception of the surveys. A list of the lots, with particulars, is appended.

OFFICE WORK.

A considerable increase in the office work is apparent in consequence of the greater extent of the surveys made during the year.

The correspondence consisted of :---

Letters received	3,560
Letters sent 8	
Number of accounts	
Amount	
Cheques forwarded 1,22	2 00

The following is a synopsis of the work of the draughting office :-	
Plans and field notes of subdivision surveys examined	
Plans and field notes of mineral claims examined	14
Plans and field notes of correction and other miscellaneous	
surveys examined	62
Township plans completed for printing	207
Proofs of plans examined	218
Declarations of settlers received	164
Miscellaneous plans, tracings, &c., made	1,364
Progress sketches received	209

The Eldon and Baker creek sheets of the phototopographical survey of the Rocky mountains were completed and printed.

A considerable amount of work was done in connection with the nomenclature of peaks and other features of the Selkirk range and Rocky mountains, in which confusion had erept in, different travellers using different names for the same features. Lists of the names were compiled, and also maps of about 100 square miles round Glacier station in the Selkirks, and about 275 square miles round Field station in the Rockies.

The maps of groups of lots in the Yukon Territory commenced last year for office purposes have been extended, and the surveyed lots in each group added to the maps as the surveys were approved.

The 'sectional maps,' on a scale of two miles to an inch, have been kept up to date as new surveys were completed, the following additional sheets being compiled, viz: Waterhen, Mossy Portage, Armit river and Pasquia.

11

The map of Mr. T. Turnbull's exploration between Lakes Winnipeg and Winnipegosis was reduced to six miles to an inch, and prepared for photolithography.

Another map, showing the 60th parallel of latitude from Teslin lake to Alsek rever and adjacent country, was also compiled on a scale of six miles to en inch to illustrate the reports of Messre. White-Fraser and Saint Cyr on the survey of the boundary line between British Columbia and the Yukon Territory.

About 600 files of papers were received and dealt with, referring to a great variety of subjects, areas and descriptions of parcels of land, applications for new surveys and for re-marking of old surveys, questions as to the marking of corners, &c., &c.

BOARD OF EXAMINERS FOR DOMINION LAND SURVEYORS.

The regular meeting of the Board of Examiners was held, commencing on Monday, February 11, 1901. The following candidates passed examinations before the board :--

Preliminary Examination.

- J. M. Bates, Ottawa, Ont.
- J. E. Beatty, Sarnia, Ont.
- E. H. Phillips, Calgary, Ont.
- P. W. Currie, Ottawa, Ont.
- J. D. Craig, Ottawa, Ont.

Final Examination for D.L.S.

G. J. Lonergan, P.L.S., Buckingham, Que. M. W. Hopkins, O.L.S., Hamilton, Ont. A. J. McPherson, O.L.S., Brockville, Ont. C. C. Fairchild, O.L.S., Simcee, Ont. H. S. Carpenter, O.L.S., Ottawa, Ont.

The increasing number of candidates for preliminary examination indicates that the profession of Dominion land surveyor is looked on as offering better prospects than has been the case of late years. For some years past very few have thought it worth while to enter on an apprenticeship as pupil to a Dominion land surveyor, but the greater amount of surveying mov being done in Manitoba and the North-west Territories, and still more the opening up of mining regions in British Columbia and the Yulon Territory, have caused a much greater demand for the services of surveyors.

The candidates for final examination are chiefly those who have already obtained commissions as surveyors of one or other of the provinces; this is due to the same cause, the lack of good prospects of employment for some time previous to the last two years having deterred young men from entering the profession to become articled to Dominion land surveyors.

The correspondence of the board amounted to :--

Letters	received.	 	 	 		 • •		• •			 	• •	356
Letters	sent	 	 	 	 	 		 					498

APPENDICES.

The following documents are appended :--

Schedule of Dominion land surveyors employed, List of lots in the Yukon Territory, &c.,

Statement of work performed in the survey records office,

Schedule of work executed in the photographic office,

Schedule of work executed in the lithographic office,

List of Dominion land surveyors who have been supplied with standard measures, Reports of Messrs. Cyrus Carroll, Thos. Turnbull, Jas. Dickson, J. C. Desmeules, P. R. A. Belanger, A. J. Brabazon, J. A. Bellcau, L. E. Fontaine, W. F. O'Hara, J. E. Woods, A. C. Talbot, J. K. McLean, C. C. DuBerger, J. E. Ross, W. J. Deans, Geo. White-Frasor, Arthur Saint Cyr and J. W. Tyrrell, Dominion land surveyors, on surveys made in 1900.

Examination papers of the Board of Examiners for Dominion land surveyors.

I have the honour to be, sir,

Your obedient servant,

E. DEVILLE.

Surveyor General.

APPENDIX No. 1 TO THE REPORT OF THE SURVEYOR GENERAL.

SCHEDULE of Dominion Land Surveyors employed, and work done by them from the date of the last annual report to June 30, 1901.

Surveyor.	Address.	Description of Work.
Aylsworth, C. F	Madoe, Out	Subliviation of parts of townships 33, 33 and 36, range 30, also of townships 34, 35 and 36, range 31, all west of the principal meridian. Survey of the north boundaries of township 33, range 30, of townships 33 and 30, range 30, the south boundary of townships 35 and 30, range 30, and the subliviation of township 12, range 8, set of the principal meridian
Belanger, P. R. A	Ottawa, Ont	Survey of the north boundaries of township 40, ranges 9, 10, 11, 12, 18, 14 and 15, and of township 44, range 2, 3, 4, 5, 6, 7 and 8, the east boundary of townships 40, 41, 42, 43 and 44, range 9, of township 41, range 10, also of townships 41 and 42, range 13, all west of the 2nd meridian.
		Survey of the north boundaries of townships 46 and 48, range 7, also of township 48, range 9, the east boundary of townships 47 and 48, range 7, of townships 47 and 48, ranges 8, 9, 10 and 11, all west of the 3rd meridian, also the north boundary of township 44, range 11, west of the 2nd meridian.
Bourgeault, A	St. Jean, Port Joli, Que	Contract No. 7, survey of the north and south boundaries and subbivision of township+ 4 and 47, range -8, part of west, north and east boundaries and subbivision of town- ship+46, range 9, the north, south and subbivision of township 47, range 9, part subbivision of township 46, and and a subbivision of township 40, and and a subbivision of township 40, and and a subbivision of township 40, township 46, range 9, of the east and west boundaries of township 46, range 9, of the sout of the 32d metrifician.
Bourget, C. A	St. Adelaide de Pabos, Q	Survey of the east boundary of township 34, range 21, the north, south and subdivision of township 34, range 29, the west boundary and part subdivision of township 34, range 19, all west of principal meridian.
Bourne, R	Winnipeg, Man	range is an even of principal increment. Survey of lot &2, in the parsh of St; Boniface, resurvey of the south, north and west boundaries and resurvey of town- ship 17, range 1, the north boundary of township 18, ranges 1 and 2, all east of the principal meridian, the east boundary of township 18, rang 1, west of the prin- cipal meridian, also part of east boundary of township 19, range 1, west of the principal meridian.
Brabazon, A. J	Portage du Fort, Que	Resurvey of township 23, ranges 5, 6 and 7, and township 24, ranges 6 and 7, all west of the 2nd meridian.
Carroll, C	Prince Albert, Sask	Survey of the east and north boundaries of township 2, range 13, of the east boundary of township 1 and 2, range 12, the east and south boundaries of township 1, range 18, aubdivision of part of township 1, range 10, also part of township 2, range 11, east of principal meridian, resurvey of the east boundaries of township 1, range 10, and cf.
Coté, J. A	Quebec, Que	township 2, range 10, east of the principal meridian. Part subdivision of township 5, range 9, east of the principal
Deans, W. J	Brandon, Man	merridia. Part additions of township 1, mag 20, were of the 60 k part additions of township 2, and 5 km of the construction of the first sector of the first sector of the first metric of the first sector of the first sector of the first tions 20, 30 and 34, township 2, east of caset meridian, meridian, the boundary of sector 21 in township 2, mage 29, were of the 64 meridian, also north boundaries of sections 18 and 20, in township 4, mage 29, were of 3, range 30, were of the 64 meridian, sho north boundaries of sections 18 and 20, in township 4, mage 29, were of 3, range 30, were of the 64 meridian.
Desmeules, J. C	Murray Bay, Que .	3. range 30, west of the out meridian. Part subdivision of townships 27 and 28, range 23, west of the principal meridian.

APPENDIX No. 1 TO THE REPORT OF THE SURVEYOR GENERAL.

SCHEDULE of Dominion Land Surveyors employed, and work done by them from the date of the last annual report to June 30, 1901-Continued.

Surveyor.	Address.	Description of Work.
Dickson, James	Fenelon Falls, Ont.	Subdivision of township 17, range 18, and township 33, range 29, part auddivision of township 33, range 28, and township 32, range 29, all west of principal meridian, the cast boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and the sub-boundaries of townships 45 and 46, ranges 6 and townships 50 and 50 and 50 and 50 and townships 50 and 50 and townships 50 and 50 and townships 50 and 50 and townships 50 and towns
Dumais, P. T. C		the east boundaries of townships 65 and 46; rangee 6 and 7; all west of the 2nd meridian. Survey of part of R. C. Mission property and part of lots No. 3, 4, 5 and 6, block 19, 2000 third addition for fail accenne- extension, survey of lots 27; 28, 29, 30, 31, 33, and 38, of part of 10, promp 2, accent of lots 10, 40, 50, 52 and 56, group 2, 7 and 8, group 3, and 1, group 7, survey of Trunk road to Stewart river.
	Waterloo, Que	Survey of part subdivision of township 52, range 21, the north outline of same, part subdivision of townships 53 and 54, ranges 19 and 20, the south outline of township 53, range 21, also part subdivision of same, all west of the 4th meridian.
Dalton, J. J. Fitzgerald, J. W. Fontaine, L. E.	Milton, W., Ont. Peterboro, Ont Levis, Que	No survey completed. No array completed. Survey of the east boundary of townships 58, 59, 60, 61, 62 range 1, the north and east boundary of township 62, range 2, the north and east boundary of township 63, range 2, the north boundary of township 64 and 64, range 3, the north boundary of township 64 and 64, range 5, all the east boundary of township 64 and 64, range 5, all
		west of the 4th meridian.
Gosselin, L	Quebec, Que	Contract No. 6, no survey completed. No survey completed.
Gibbon, J.	Dawson, Y. T	No survey completed.
Gibbon, J Lendrum, R. W	Stratheona, Alta	Contract No. 2, subdivision of townships 42, 43 and 44, range 1, north and south outlines of 43 and 44, range 1, all west of 5th meridian, the south outline of township 51, range 21, west of 4th meridian.
Lawe, Henry	Winnipeg, Man	Survey of frail extending from north boundary of the West- bourne settlement to its intersection with the Sandy Bay trail, through sections 1, 12, 13, 14 and 23, township 14, unrecy of trails through Westbourne settlement on the north and south sides of the Whitemed Kiver and the extension eaterly of trail on the south side through sections 25 and 36, township 13, range 9, west, and principal meridian, Province of Manitoba.
Lonergan, G. J	Buckingham, Que.	Survey of division of township 7, range 26, west of the 4th meridian.
Molloy, J	Rosser, Man Winnipeg, Man	Contract Xo. 9, no surveys completed. Subdivision of townships 33 and 34, ranges 10° and 4, of town- ships 32 and 33, range 9, of township 33, 34 and 35, range 9, of townships 37 and 25, range 10, survey of the east boundary of township 35, range 4, resurvey of other south boun- dary of township 32, range 9, all west of the 2nd meridian.
McLean, J. K	Elora, Ont	Subdivision of township 38, range 18, of township 56, ranges 22 and 23, tosurvey of township 57, ranges 22 and 23, of the north boundary of township 57, ranges 22 and 23, of the north boundary of section 19 and remeasurement of settlement. Lobstic) lines in township 58, range 18, of and the east boundary of township 58, range 33, all west
McPhee, A	Innisfail, Alta	the 4th meridian. Subdivision of townships 40, 41 and 42, range 2, also resurvey of the north and east boundaries of township 40, range 2, all west of the 5th meridian.
MacPherson, C. W.	Dawson, Y.T .	an weet or the strin meridian. Survey of block 1, 2, 3, 4 and 5, group 6, of 1, 2, 3, 4, 7, 8, 10 Survey of block 1, 2, 3, 4 and 5, group 6, block 5, and 6, group 4, lots 1, 2, 3 and 4, group 10, hot-1 and 2, group 11, lots 28 and 29, group 5, aloss subdivision of blocks A, B, H, 1, O, P, Y, W, being a part of lot 2 in group 4, all in the Yukon Territory.

iii

APPENDIX No. 1 TO THE REPORT OF THE SURVEYOR GENERAL.

SCHEDULE of Dominion Land Surveyors employed, and work done by them from the date of the last annual report to June 30, 1901-Concluded.

Surveyor.	Address.	Description of Work.
McPherson, A. J McKenna, J. J	Dawson, Y.T Dublin, Ont	Subdivision of townships 5 and 6, ranges 24, 27, 28 and 29.
McGrandle, H O'Hara, W. F	Huntsville, Ont Chatham, Ont	township 5, range 30, all west of the 3rd meridian. Contract No. 8, no survey completed. Survey of the east boundary of townships 42, 43 and 44, range 2, of townships 41, 42, 43 and 44, range 3, of townships 39, 40, 41, 42, 43 and 44, range 4, of townships 39, 40, 43
Proudfoot, H. B Ross, J. E	Toronto, Ont New Westminster, B.C.	and 44, range 5, the north boundary of township 44, range 2, all west of the 54 nu ericlass is subdrivation of townships 2, all west of the 54 nu ericlass is subdrivation of townships 2, and the subdrivation of the subdrivation of townships 10, 2 and 2, and 2, and 2, and 2, range 25, and 27, of townships 22 and 35, range 25, of township 118, ranges 6 and 7, of townships 10, submrt 26, of township 118, ranges 6 and 7, of townships 10, ranges 5 and 6, of township 118, ranges 6 and 7, of townships 10, ranges 15 and 6, of township 118, ranges 6 and 7, of townships 10, ranges 15 and 6, of township 118, ranges 6 and 7, of townships 10, ranges 15 and 6, of township 118, ranges 7 and 7 and
		24 and 25, range 14, of township 20, ranges 8 and 9, all west of the 6th meridian resurvey of part of lots 92, 93, 95 and 643, part of lots 42 and 646, and part of lots 468 and 644, also the south boundary of Nesknihith Indian reserve; part subdivision of townships 23 and 24, range 2, all west of the 6th meridian.
Roy, Geo. P	Quebec, Que Aylmer, Que	tanang o calve v part successful to the terminal as and 23, trange call west of the 6th meridian. Contract No. 12, no surveys completed. Subdivision of toronships 5 and 6, ranges 17 and 18, townships 2 and 3, range 16, township 4, ranges 16, 17, 18 and 19, townships 1 and 2, range 15, township 2 and 3, range 17, township 2 and 3, ranges 18 and 19, township 2, range 29, township 3 and 5, range 21, township 5, range 17, township 4, and 5, range 21, township 5, range 18, township 5, and 21, range 10, township 5, range 19, township 5, and 19, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 19, range 10, township 5, range 10, township 5, and 19, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, and 10, range 10, township 5, range 10, township 5, range 10, township 5, range 10, township 5, range 10, township 5, range 10, township 5, range 10, township 5, range 10, township 5
		23, all west of the 4th meridian. Survey of lot 7, group 1, of lots 61, 77, 78, 66, 67, 87, 68, 82, 88, 89, 92, 93, 94, all in group 2 in the Yukon Territory.
Saint Cyr, A Sirois, E Saint Cyr, J. B	Ottawa, Ont. St. Anne de la Perade,	No survey completed. Assistant to J. C. Desmeules. Contract No. 4, no survey completed.
Contraction Dest	D dt	Designed for a formal state of the state of the state
Talbot, A. C	Ottawa, Ont	Resurvey of part of east boundary of townships 45 and 46, range 25 and 27, west of the 4th meridian. Subdivision of townships 52 and 53, ranges 2, and 5, resurvey of east and south boundaries of township 50, range 2, the ary of 52, range 1, the north boundary of township 51, range 3, all west of the 6th meridian; survey of the N.W.M.P. reserve at Fort Saskatchewan in township 54, range 2, west of the 4th meridian.
Towle, C. E Turnbull, Thos	Waterloo, Que Winnipeg, Man	Contract No. 13, no survey completed. Survey between Lakes Winnipeg, Manitoba and Winni-
Vincent, F., D.L.S., Woods, J. E.,	Aylmer, Que	pegeois. J. K. McLann. Awatan to J. K. McLann. Santan to J. Wendhy T. angree 22, 23 and 28, of township 7, angree 29, west of the meridian, of township 7, ranges 4, 5 and 6, all west of the 3rd meridian, ir sources of section 00, in township 37, ranges 8, and 4, of township 57, ranges 4, 5 and 6, all west of the 3rd meridian, ir sources of section 00, in township 37, ranges 8, west of the 4th meridian; range 23, west of the 4th meridian, survey of east outline of townships 3 and 4, ranges 16, 71, 18 and 10, all west of
White Fraser, Geo	Toronto, Ont	the 4th meridian. Survey of a portion of the province of British Columbia and the Yukon Territory, being adjacent to the 60th parallel of north latitude between Little Windy Arm and Alsek
Wallace, J. N	Calgary, Alta	river. Survey of the east boundaries of townships 45, 46, 47 and 48, range 2, west of the 5th meridian.
Wheeler, A. O	Calgary, Alta	No survey completed.

APPENDIX No. 2 TO THE REPORT OF THE SURVEYOR GENERAL.

LIST of lots in the Yukon Territory of which the surveys have been made and confirmed.

Group No. 1, Yukon Territory.

Lot No.	Area in Acres.	Surveyor.	Year of Survey.	Date of Approval.	Claimmt.	Remarks.
2 4 7 12 13 14	80 00 1 45 20 66 320 00	Wm. Ogilvie. Wm. Ogilvie. R. Rinfret Wm. Ogilvie. Wm. Ogilvie.	1896 1896 1900 1896 1896	May 20, 199, May 20, 199 Sept. 7, 100, May 20, 199 - 20, 199 - 20, 199	 H. A. Constantine E. J. Ward. Rt. Rev. W.C. Bompas, Bishop of Selkirk, Isabella M. Healy, W. F. Cornell. Isabella M. Healy, 	
15 16 17 18 19 20	160 00 320 00 320 00	 Win, Ogilvie. R. J. Jephson, 	1890 1896 1899 1899 1899 1899 1899	July 16, '00, - 16, '00, - 16, '00, - 16, '00, - 16, '00, - 21, '00, - 21, '00, - 21, '00, - 21, '00, - 20, '09, - 20, '00, - 2	Hamilton, Constan tine & Ogilvie, S. H. Stewart, Jas, Hall Watson J., J. Healy, J. H. Watson & J. J.	
21 22 23 25 6 20 21 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	$\begin{array}{r} 320^{\circ}00\\ 848\\ 16000\\ 80^{\circ}00\end{array}$	A. Fawcett R. J. Jephson, R. J. Jephson, Adam Fawcett, Adam Fawcett, Adam Fawcett,	1899 1899 1899 1900 1900 1900	Jan. 17, '00 July 16, '00 Sept. 18, '00, Aug. 17, '00, - 17, '00,	F. O'Brien T. C. Healy T. C. Healy H. Siemer	

Group No. 2, Yukon Territory.

1		P. T. C. Dumais.	1900	Aug. 20.	'00		Subdivision of part of
							lot.
		Jas. Gibbon	1899	Jan. 17.	'00	Dominion Government	Government reserve
							addition.
	18 00	Wm. Ogilvie	1897	May 20.		Arthur Harper	
- 3		C. S. W. Barwell	1898	Jan. 22.	'00 .	Joseph Ladue	Addition.
1	14 30	Wm. Ogilvie	1897	May 20.	. '99	F. Atkins (or Smith)	
		J. Gibbon .	1897	Sept. 22	. '99	A. H. Day	
- 6	42.00		189.	July 22	, 199	Stewart Menzies.	
8	32 00		1897	Jan. 24	. '01.	H. C. Gingg.	
9	159 60		1898	Sept. 8	. 100	Johnson Fortier Morgan	
		C. S. W. Barwell.		July 30.	100	n a 3	Subdivision of lot.
10		Jas. Gibbon	1898	Sept. 8	, 100	B. C. Sprague	Subject to rights ac
11	40/35	C. S. Barwell	1899	Jan. 18	, 100	Canadian Development Co	quired to date.
12	411.07	x (2012)	1000	July 22	No.	Government addition	
13	40.20	Jas. Gibbon	1897 2			Dominion Government	
14	1.0 90	C. S. W. Barwell.	1898	Jan. 17		N. A. F.& T.Co.per Juo.	
14	10.20	C. S. D. Darwell.	1000			J. Healey.	
15	9.00	Lewis Bolton	1800	. 17	500	R. Roeves	
10	~	P. T. C. Domais	1900		00	IN INCOME IN	Subdivision of lot
17	160.00	Louis B. Stewart.	1899	Jan. 18	100	C. Macleod and M. J.	CHICAGO CONTRACTOR
			A			Gates	
18	160.00		1899	- 18	0.0	C Maclood	
19	160 00		1899			M. Marsden	
20	160.00		1899			A. GOUS	
21		Lewis Bolton.		18	300	Sam Ward et al	
22	36_04		1899	D= 17		J. A. Acklen .	
23	39/30		1899	17	, '00	J. G. Morley.	
24	44 44	Jas. Gibbon	1899	17		Dominion Government	
25		R. d. dephson .	1900	Sept. 18	, 00	Government Reserve ad	
26	120.00	O O ME D II				dition	
20		C. S. W. Barwell	1900		. 00.	L. R. Flida	
	25-ii	i-2					

nî

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

APPENDIX No. 2 TO THE REPORT OF THE SURVEYOR GENERAL-Con.

LIST of lots in the Yukon Territory, &c .- Con.

Group No. 2, Yukon Territory-Con.

Lot No.	Area in Acres.	Surveyor.	Year of Survey.		te of roval.	Claimant.	Remarks,
27 28 29 30	$ \begin{array}{cccc} 10 & 00 \\ 10 & 00 \\ 10 \cdot 00 \\ 20 \cdot 00 \end{array} $	Paul T. C. Dumais	1900 1900 1900 1900	July Aug. July Aug.	27, '00. 11, '00 27, '00. 8, '00.	Capt. J. D. Murray J. A. Cleveland Emile Mahr G. W. Linfield & R. Perry Ubasit Victor	
31 33 34	$\begin{array}{ccc} 10 & 00 \\ 200 & 00 \\ 165 & 25 \end{array}$	R. J. Jephson P. T. C. Dumais	1900 1900 1900		10, '00	Juo Simpson.	
36 37 38 39	51 65 48 97 47 12 51 65	T. D. Green R. W. Cautley T. D. Green	1899 1899 1899 1899	Mar.		MUR Muker	
40 41 42 43 44	$22 \ 00$ $51 \ 65$ $43 \ 97$ $41 \ 40$ $34 \ 15$	T. D. Green	- 1900 1900 1900 1900	Ang.	14, '00 14, '00 14, '00 14, '00 14, '00	M. F. Mosher	
45 46 47 48 49	5 00 10 00 10 00 10 00 10 00	P. T. C. Dumais .	1900 1900 1960 1960 1960	Sept. July Dec.	27, '00	W. A. & P. J. Jewell, Wm. Gorbraiht L. J. McCarty	
50 52 53 54 59	10.00 5.00 10.00 37.40	T. D. Green J. L. Cote P. T. C. Dunnais.	1900 1900 1900 1900 1900	Sept. Feb.	27, 500 27, 500 27, 500 9, 500 12, 501 23, 500	C. Tangen H. E. Kolloen Hermengilde Laundry	
63	31 09		1900			d. A. Morgan .	
65 66 67 58 77	51.65 160.00 159.70 48.50 80.00	Geo, Edwards Raoul Rinfret, ". A. Faweett Raoul Rinfret, C. S. W. Barwell B. Binfret	1900 1901 1901 1901 1900	M.a. April	7, '01 -4, '01 -	Daniel H. McDermid. Daniel H. Sinclair	
18 2 2 2 3	980 36.771 105 47.64	A. Fawcett Raoul Rinfret. C. S. W. Barwell	1900 1901 1901 1901 1900	Feb. July April	25, '01 2, '01 9, '01 4, '01	Wm, B. Morgan Alaska Commercial Co W. J. Nolan McDonald. Polorado Mineral Claim. Adele Mineral Claim.	
					4, 01 . 4, 01 . 4, 01	Bl'k dack Mineral Claim Victoria Mineral Claim Paul Forest & Godfroi Jolicoeur,	
62565	$ \begin{array}{c} 11 \\ 7 \\ 34 \\ 22 \\ 97 \\ 9 \\ 0 \\ 20 \\ 00 \\ \end{array} $	C. S. W. Barwell T. D. Green Raoul Rinfret.	1901 1901 1901 1901	June 1 June 1 May 1 July 3	5, '01 5, '01 9, '01 5, '01, 10, '01.	N. Nelson A. R. Cameron Juo. A. Morgan	
						Messrs Perry & Van dall Wm. H. Daily	

APPENDIX No. 2 TO THE REPORT OF THE SURVEYOR GENERAL-Con.

LIST of lots in the Yukon Territory, &c .- Con.

Group No. 3, Yukon Territory.

Lot No.	Area in Acres.	Surveyor.	Year of Survey.	Date of Approval.	Claimant.	Remarks.
1 223 4 5 6 7 8 0 11 2 3 23	$\begin{array}{c} 40 & 00\\ 150 & 22\\ 165 & 00\\ 177 & 73\\ 48 & 35\\ 160 & 00\\ 80 & 00\\ 80 & 00\\ 80 & 00\\ 80 & 00\\ 77 & 82\\ 21 & 21\\ \end{array}$	Jas, Gibbon P.T.C. Dumais Geo, Edwards R. W. Cautley, Adam Fawcett	1897 1897 1897 1897 1899 1900 1900 1900 1900 1901 1901 1901	- 23, 01 23, 01. 23, 01. 23, 01. 23, 01. 4, 00 Jan. 9, 01. 30, 01 30, 01 30, 01 30, 01 24, 01.	Jac, M. Wilson Gort Reserve. Stewart Mension. James M. Wilson Gort property W. E. Jacobi V. E. Jacobi Sam Henry Jas, Hagen Messer, Berg & Edward- F. Ganke .	Rights transferred 10 W. ICHill.

Group No. 4, Yukon Territory.

1		Jas. Gibbon	1807	Jan. 2	3, 101.		Gov't. Reserve.
2	E40 DO					Arthur Harper.	
		R. W. Cautley		2:			Townsite of Ft. Selkerk
		C.W. MacPherson.	1900	July 3	2. '01.		Subdivision of blocks A
							B. H. I. O. P. V. W
3		Jas, Gibbon				Joseph Ladue .	
-4	(64)) (10)					. Donald McDonald	
5	10 00	C.W. MacPherson.	1900	July 3	2. '01	C. D. Co.	
6	159-98		19 0		2, '01		Indian Reserve.

Group No. 5, Yukon Territory.

1	40.00	H. G. Dickson	1899	Feb.	8,	'00.	Wm, W. B. McInnes
2	40.00		15:0		8	0.0	G. W. Mitchell .
3	10.111		1899			7111	Colin F. Melsaac,
4 5	40 DH		1511		8.	'00	Dungan C. Frase
5	40.00		1899		8.	'00	Harvey Graham
G	40.00		1899		8,	100.	Wm Whitman
1	40.00		1899		8.	500	Hance Jas. Logan
8	39.165		18.9		8,	'00	Juo, Hislor
()	(i) (ii)		1899		8.	'00	Geo. R. Maxwell/Rev.
1))	4(1.1)()		1899		8.	'00	Allan Haley
11	40.00		18990		8.	'00	Arnold L. Berdal
	10.40		1829		S.,	(0)	N.W.M.P
13	10.00		1 5:19		5.	100	
14	40.03		1899			(1)	Harry Jas. Patterson
15	20 30		1889		8.	(H)	Sam Effengis Adam
16	40 00		1899		×.	(0)	Italia Louis Adam
17	40 101		189.)			13.0	Jay Wibey
18	10.100		1899			100	J don'Thes. Bethnew
19	97-12		1899		8.	HE	B.V.M.T & T. OI
211	6.12		1890			()()	Vic or Ignacias Halin
21	22.18		1599			TOO -	Hy C. Sott.
23	75 001		1900	May		701	Campbell & McKin ion
24	40.00		1.6.0	June			Whitney & Bayter
25	- HO - HO		122201			001	
	25—ii	: 01					
	20-11	1-23					

iii.

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

APPENDIX No. 2 TO THE REPORT OF THE SURVEYOR GENERAL-Con.

LIST of lots in the Yukon Territory, &c .- Con.

Group No. 5, Yukon Territory-Con.

Lot No.	Area of Acres.	Surveyor.	Year of Survey.	Date of Approval.	Claimant.	Remarks.
$\begin{array}{c} 26\\ 27\\ 29\\ 30\\ 31\\ 23\\ 34\\ 35\\ 37\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\$	40.00	P. T. C. Dumais. C. W. MacPherson H. G. Dickson	1899 1900 1900 1901 1901 1901 1901	0 11, '00. July 24, '01. 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01. 0 24, '01.	N.W.M.P. Jas. E. Beatty. E. Johnston Robt. Lowe Geo. Armstrong W. Armstrong T. C. Norris	Subdivision of lot.

Group No. 6, Yukon Territory.

1		C. W. MacPherson	1900	Sept.25, '00 B.Y.M.T. & T. Co	
2	160.00		1900	» 21, '00. * »	
3	110'23		1900	. 21, '00	
-4	160.00		1900	. 21, '00,	
ō	40.00		1900	9 21, '00,, N.W. M. P	
6	$120 \ 00$	Hugh Burnet	1899	May 15, '01 H. M. Woodbridge	
7	160 00		1899	» 15, '01 »	
8	90.00		1899	- 15, '01	

Group No. 7, Yukon Territory.

		P. T. C. Dumais.				
2 40	F.00		1900	Aug. 8, '00	. The Trading & Exploring	

Group No. 8, Yukon Territory.

		C. W. MacPherson										Reserve.	
4	40.00												
7	2.00		1900	 30,	.01	- 1	Jominion	Gou	ernme	nt			

Group No. 9, Yukon Territory.

	W. MacPherson				

Group No. 10, Yukon Territory.

1	40	00	С.	W. MacPhers	on	1900	Ju	ily	2,	'01.				Police	Reserve.	
2	-40	05														
	-40															
4	159	76				1900			2.	'01.	Mille					

Group No. 11, Yukon Territory.

		W. MacPherson	1900	July	2,	101	N.W. M. P	
2	25 50		1900		2,	01		

APPENDIX No. 3 TO THE REPORT OF THE SURVEYOR GENERAL.

STATEMENT of work performed for the twelve months ending June 30, 1901.

Files received and dealt with 1	,180
	,380
	291
	369
Statutory declarations copied and mailed	136
Plans sent to agents, registrars, &c 3	,011
Pages of field notes copied	138
Prints of plans received and stored 11	,464
Original plans recorded	495
Original field books recorded	346
Letters written to agents, registrars, &c	576
Registered parcels sent out	701

F. CLAYTON,

Surveyor and Draughtsman in charge of Branch.

Department of the Interior, Survey Records Branch, Ottawa, August 19, 1901.

APPENDIX No. 4 TO THE REPORT OF THE SURVEYOR GENERAL.

WORK done in the Photographic Office, Department of the Interior.

Aristo prints	1,305
Bromides	669
Black and white prints	270
Wet plates	
Dry plates	608
Transparencies	
Crayon pictures	2

GEOLOGICAL

Aristo prints	507
Bromides	28
Wet plates	
Transparencies	2
Dry plates	12

10

iii

APPENDIX No. 5 TO THE REPORT OF THE SURVEYOR GENERAL.

SCHEDULE of Work done in Lithographic Office from July 1, 1900, to June 30, 1901.

	Maps.		Townships.		Forms, &c.	
Month.	Number.	Copies.	Number.	Copies.	Number.	Copies.
1900.						
July	2 2 2	300 30 150	$ \begin{array}{r} 4 \\ 26 \\ 10 \\ 19 \\ 14 \\ 17 \\ 17 \end{array} $	$212 \\ 1,381 \\ 530 \\ 1,011 \\ 744 \\ 905$	3 91 	940 1,050 800 625
1901.						
January February March April MayJune	5 1 2 2	90 150 155 150	15 21 38 13 12 18	$799 \\ 1,115 \\ 2.021 \\ 693 \\ 639 \\ 957$	· 3 · · · · · · · · · · · · · · · · · ·	300 540 15 500 570
Total	16	1,025	207	11,007	23	5,340

RECAPITULATION.

Number of maps	16	Number of copies 1,02	5
" townships	207	" "	7
" forms, &c	23	" " 5,34	9
			-
Grand total	246	Grand total 17,37	2

APPENDIX No. 6 TO THE REPORT OF THE SURVEYOR GENERAL.

LIST of Dominion Land Surveyors who have been supplied with Standard Measures.

Name.	Address,	Date of	Remarks.
.viante.		Appointment	
-			
Austin G.F.	Dewdney, Alta. Madoc, Out Dawsou, Yukon Territory Winnipeg, Man Ottawa, Ont Ottawa, Ont Uttawa, Ont Ustawa Ont .	April 14, '72	
Aylsworth, C. F.	Madoe, Out	May 17, '86	
Barwell, C. S. W.	Dawson, Yukon Territory	Aug. 21, '94	
Bayne, G. A.	Winnipeg, Man	April 14, 72	
Belanger, P. R. A	Ottawa, Oat Ottawa, Ont Ottawa, Ont Listow-l, Out	May 17, '80	Surveys staff, Dept of Interior.
Belleau, J. A.	Ottawa, Ont	May 15, 83	
Bigger, C. A.	Ottawa, Ont	Mch. 30, '82.	
Bolton, L.	Listow-d, Out St. Jean Port Joli, Que St. Jean Port Joli, Que St. Jean Port Joli, Que Ste. Adelaide de Pabos, Que	April 14, '72.	
Bourgault, A.	St. Jean Port Joli, Que	Mch. 29, '83	
Bourgeault, C. E.	St. Jean Port Joli, Que	Feb. 21, [88].	
Bourget, C. A	Ste. Adelaide de Pabos, Que	May 14, 84	
Bourue, R .	Fort Rouge, Winnipeg, Man	June 17, 75.	
Brabazon, A. J.,	Ottawa, Ont	May 12, 82	10 · · · / / · · · · · ·
Bray, S. Brodie, S.	Ottawa, Ont	Nov. 14, 83.	Dept. of Indian Affairs.
Brodie, S	Fort Qu Appene, Assa	April 14, 72	
Brownlee, J. H. Burke, W	Minundana Mara	April 10, 67	
Burke, W.	Violutio P.C.	June 22 '85	
Burwell, H. M.	Ste. Adelaide de Pabos, Que Fort Rouge, Winnipeg, Man Ottawa, Ont Port Qu'Appelle, Assa Victoria, B.C Minuedosa, Man Victoria, B.C. Victoria, B.C.	Keb 17 '87	
Carroll, C	Prince Mhort Sas	April 14 '72	
Cantley, R. W	Munuedosa, Man Victoria, B.C. Vancouver, B.C. Prince Albert, Sas Dawson, Yukon Territory Vancouver, B.C. Dawson, Yukon Territory New Westminuter B.C.	Sept. 2, 36	
Cleveland, E. A.	Vanconver, B.C.	June 27, '99	
Côte, J. L	Dawson Yukon Territory	Mch. 21, 500	
Cotton, A. F	New Westminster, B.C	May 11, '80 .	
Dalton, J. J.	Milton, Ont	April 17, 79	
Deaus, W. J.	Brandon, Man	May 13, '86	
Dennis, J. S	Regina, Assa	Nov. 19, 77.	Dominion Topographical Surveyor,
Dennis, J. S Denny, H. C	Calgary, Alta	April 1, '82 .	Deputy Commissioner, Public Works,
Desmeules, J. C .	Murray Bay, Que	April 14, 72.	N.W.T.
Dickson, H. G.	Whitehorse, Yukon Terr'y.	Mch. 19, '89	
Dickson, J.	Fenelon Falls, Out	April 14, '72	
Doupe, J	Winnipeg, Man	April 14, '72	
Doupe, J. L Drewry, W. S Driscoll, A.	Winnipeg, Man.	Oct. 6, 88	Dominion Topographical Surveyor, Pepty Commissioner, Public Works, N.W.T.
Drewry, W. S	Victoria, B C	Nov. 14, 83.	
Driscoll, A.	Edmonton, Alta	Feb. 23, 87	
DuBerger, C. C.	Waterloo, Que .	NOV. 17, 81	
Ducker, W. A Dumais, P. T. C	Winnipeg, Man.	Mch. 50, 85 Mal. 20 '80	
Edwards, G	Thur, Que	Arch, 20, 62	
Palwards, G	Simon Out	Eab 20 '01	
Fairchild, C. C., Fawcett, T	Ningara Falls Out	Nov. 18 76	Dominion Topographical Surveyor
Fawcett, A	Dawson Vukon Territory	Feb 29 '93	Maska Commercial Co
Fitzpatrick, J. D. A	Kildare One.	Feb. 23, '87	
Fontaine, L. E.	Levis, One.	Aug. 13, '92	
Fontaine, L. E. Foster, F. L	Toronto, Out.,	April 14, '72	
Francis, J	Poplar Point, Man	June 17, 75	
Garden, J. F.	Vancouver, B.C.	May 13, '80	
Gardeu, C	Winnipeg, Man	April 14, 72	
Garden, G. H.	Dawson, J IKON Territory, Kildare, Que. Levis, Que. Toronto, Out. Poplar Point, Mau Vancouver, E.C. Winnipeg, Man Lethbridge, Alta Quebec, Que Dawson, Vikon Territory	April 14, 72	
Gauvreau, L. P	Quebec, Que	April 14, 72	
Gibbon, J	Dawson, Yukon Territory .	Feb. 12, 91	Gold Commissioner's office, Yukow
	12	A	Territory.
Gore, T. S.	Victoria, B.C.	April 19, 19,	
Gosselin, L.	Hedleyville, Que.	May 10, 80	
Green, T. D. Harris, J. W.	Dawson, Tukon Territory	May 10, 84	City Surveyor, Winnipeg.
Harris, J. W	Chillingada D.C.	Xprn 19, 72 No. 17, 592	City ourveyor, winnpeg.
Harris, J. W Henderson, W Honking M. W.	Victoria, B.C Hedleyville, Que., Dawson, Yukon Territory Wiuniper, Man. Chilliwack, B.C., Haunilton, Ont. Ottawa, Ont Calgary: Alta	Feb 20 '01	
Hopkins, M. W. Hubbell, E. W.	Ottawa Out	May 19 84	Surveys staff, Dept. of the Interior.
Jephson, R. J	Calgary, Alta		District Fugineer XWT
Klotz, O. J		Nov. 19, 77	Dominion Top. Surveyor, Astronomer
			Dominion Top. Surveyor, Astronomer Dept. of the Interior.
Latimer, F. H	Detroit, Michigan	Nov. 13, '85	District Engineer, N.W.T
Laurie, R. C	Battleford, Sask.	April 27, '83, April 14, '72 May 15, '80 Feb. 28, 01	
Lawe, H .	Battleford, Sask. Winnipeg, Mau	April 14, 72	
Lendrum, K. W	Edmonton, Alta	May 15, '80	
Lonergan, G. J. Lumsden, H. D.	Buckingham, Que	Feb. 28, 101	
Lumsden, H. D.		April 14, 72	
MacPherson, C. W	Dawson, Yukon Territory	Men. 7, 00.	

щ

APPENDIX No. 6 TO THE REPORT OF THE SURVEYOR GENRAL-Con.

LIST of Dominion Land Surveyors who have been supplied with Standard Measures-Concluded.

		D	
Name.	Address.	Date of Appointment.	Remarks.
			Dominion Topographical Surveyor, Land Commissioner, Alberta Rail- way and Canal Co.
Malcolm, L	Blenheim, Ont	April 14, 72.	
Martin, A. F.	Winnipeg, Man.	April 14, 72.	
Mollov, J	Rosser, Man	April 14, 72	
McArthur, J. J.	Ottawa, Ont.	April 17, '79.	
McFadden, M	Toronto, Ont	April 14, 72	Dominion T. pographical Surveyor.
McFee, A	Neepawa, Man	April 14, 72 April 14, 72 April 19, 79 May 30, 83	
Meterandie, H	Huntsville, Ont.	May 30, '83	
McKenna, J. J McKenzie, J		April 14, 72. Nov. 18, 88	Design Trade Land N. W.
MCKenzie, J			Dominion Lands Agent, New West- muster.
McLatchie, J	Nelson, B.C. Elora, Ont Brockville, Ont. Windson, Ont. Ottawa, Ont Calgary, Alta Calgary, Alta	April 14, '72.	
McLean, J. K McPherson, A. J.	Elora, Ont	April 1, '82 Fab. 91 '01	
	Windson, Ont.	Juue 17, '75.	
Ogilvie, W.	Ottawa, Ont	April 14, '72	
O Hars, W. F	Chatham, Ont	Feb. 19, 95.	Dominion Topographical Surveyor.
Ogilvie, W. O Hara, W. F Patrick, A. P Pearce, W	Calgary, Alta Calgary, Alta Toronto, Out Aylmer, Que Aylmer, Que	May 10, '80	Inspector of Surveys, Dept. of Interior
Proudfoot, H. B. Rainboth, E. J.	Toronto, Out	Mar. 28, 82.	
Rainboth, E. J Rainboth, G. C.,	Aylmer, Que	May 19, 81. April 14, 72.	
Ralph, Wm.		April 14, '72.	
Reid, J. L	Prince Albert, Sask	April 14, 72.	
Rinfret, R Ritchie, J. F	Prince Albert, Sask Daws n, Y.T. Nelson, B.C. Montmagny, Que Sturgeon Falls, Ont. Regina, Assa	Feb. 20, 00 Jap. 7 ' 9	
Robertson, H. H., Roberts, V. M Robinson, F. J	Montmagny, Que	April 14, 72	
Roberts, V. M	Sturgeon Falls, Ont	May, 17, '86.	
Rorke, L. V .	Regina, Assa Sudbary Ont	Feb. 20, 00	
Ross, J. E Roy, G. P	Sudbury, Ont New Westminster, B.C . Quebec, Que	Feb. 12, '91.	
Roy, G. P .	Quebec, Que	Nov. 17, 81.	
Saint Cyr, J. D	Ottawa, Ont	Feb. 17, '87.	Surveys Staff, Dept. of the Interior.
Saunders, B. J.	Regina, Assa	Nov. 16, '84.	
Seager, E	Rat Portage, Ont	April 14, 72.	
Shaw, C. A. E	Victoria, B.C.	May 10, '80	
Speight, Thos	Toronto, Ont	Nov. 16, '82	
Starkey, S. M	Starkey's P.O., N.S. Calgary Alta	April 14, 72.	
Stewart, L. B	Quebec, Que Ste. Anne de la Perade, Que Ortawa, Ont Regina, Assa Rat Portage, Ont Wabigoon, Ont Victoria, B.C. Toronto, Ont Starkey S. P.O., N.S. Calgary, Alta. Toronto, Ont	Nov. 22, 82.	Dom. Topograph. Surveyor, Professor School of Practical Science, Toronto.
Stewart E	Ottawa, Ont	April 14, '72.	. Chief Inspector of Timber and Forestry.
Talbot, A. C. Thompson, W. T	Ottawa, Ont Fort Qu'Appelle, Assa		Surveys Staff, Dept. of the Interior. Dom. Topographical Surveyor and Dis-
	Fort Qu'Appene, Assa		trict Engineer, N.W.T.
Tremblay, A. J	Les Eboulements, Que.	Feb. 18, '90.	
Towle, C. E Turnbull, T.	Waterloo, Que	April 14 72.	
Tyrrell, J. W	Waterloo, Que. Winnipeg, Man Hamilton, Ont Vancouver, B.C.	April 14 '72. Mch. 29, '82. Feb. 16, '87. June 11, '78.	
Vaughan, J. W. Vicars, J	Vancouver, B.C.	June 11, 78.	
Wallace, J. N	New Westminster, B.C. Hamilton, Ont.	May 17, 86. Feb. 20, 00.	
Wheeler, A. O	Calgary, Alta.	Nov. 21, '82	
White-Fraser, G.W.R. William F. W	Toronto, Ont	Feb. 21, '88.	Dominion Topographical Surveyor.
Wilkinson, W. D.	Toronto, Ont	Feb. 22, '93.	
Woods, J. E	New Westminster, B.C. Hamilton, Ont. Calgary, Alta. Toronto, Ont Norwood, Ont Toronto, Ont Blairmore, Alta.	Nov. 14, '85	

P. B. SYMES. Secretary of the Board of Examiners for Dominion Land Surveyors.

APPENDIX No. 7 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF CYRUS CARROLL, D.L.S.

SURVEYS IN SOUTH-EASTERN MANITOBA.

PRINCE ALBERT, SASK., November, 1900.

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

Sum-In pursuance of your instructions, I surveyed the outlines of townships 1 and 2, in ranges 11, 12 and 13, cast of the principal meridian, and subdivided such portions of the townships as appeared to be suitable for settlement.

Immediately on receipt of the instructions, I proceeded to Winnipeg where I procured the necessary supplies and organized the survey party. The work was continuously prosecuted till the 12th day of October, when I returned to Winnipeg and thence to my home in Prince Albert where I at once set to work at the returns of the survey.

In townships 1 and 2, ranges 11 and 12, I surveyed in all 36 sections. The most of these are in township 1, range 12; the remainder are, however, contiguous thereto so that the whole forms a compact settlement. The land is nearly all taken up without much regard to railway, school or Hudson Bay Company's land. The settlers are mostly Norwegians and Icelanders, with a few Frenchmen, and one or two Scotchmen.

The greater part of the land is reclaimed swamp land, roots and sunken decaying swamp timber being found everywhere.

A few years ago fire destroyed the greater portion of the small swamp timber, consisting of tamarack, each and alder. The water recorded and grass began to grow and a few trees of birch, balm of gilead, and poplar appeared in patches. The land is well adapted for grazing, so that it suits the settlers who are naturally included to the raising of cattle and sheep instead of cereals. I noticed, however, two small fields of wheat.

The sand ridges, which cover the greater part of the unsurveyed lands, are barren and never will be of any use. Fire has overrun them and destroyed the few small stunted jack pines that greater in places.

The timber is nearly all in the swamps, any of value that had excaped the fire was taken away years ago, what remains is barely sufficient to supply firewood, house logs, and rails for the settlers.

The westerly part of township 1, range 11, is mostly in the great Kauswanp wamp. This swamp is very wet ; much of it is a floating bog. It extends well into range 10, and into Minnesota. In townships 1 and 2, range 13, only the outlines were surveyed. I do not consider that there is sufficient land fit for settlement in these townships to warrant the expense of subdividing them. In the north-east corner of township 2, range 13, there was at one time a considerable quantity of pine, tamarack and spruce timber, but any that was of use was taken away some years ago, as stated in my timber report.

I could not find the parties who signed the petition for the survey of township 1, range 14. There may possibly be one or two bons fide settlers. There is a lumber camp at the landing on Mud creek, but no men were at it except the one in charge. The railway section man and his son both intending to pose as settlers can searcely be regarded as such in this township since they live on the Minnesota side of the line where they have homesteads. There is a considerable quantity of small tamarack suitable only for cordwood which, believe, is being out under license.

The Manitoba and South-Eastern Railway crosses the north-east corner of township 2, range 12.

I have the honour to be, sir,

Your obedient servant,

CYRUS CARROLL, D.L.S.

APPENDIX No. 8 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF THOS. TURNBULL, D.L.S.

EXPLORATION OF THE COUNTRY BETWEEN LAKES WINNIPEG AND WINNIPEGOSIS.

WINNIPEG, February 9, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa.

Su,—According to your instructions, I left Winnipeg accompanied by W. C. Pritchard, J. N. McKay and C. H. Blanchard, to explore the country lying between Lakes Winnipeg, Manitoba and Winnipegosis.

It seemed to me from the inquiries I made, that the easier way to reach the interior of the country was from the Lake Manitoba side. I accordingly started north from Oak Point on an old eart trail, running nearly north through the surveyed country. The old section corners are nearly all oblicated, although the lines are easily traced in the wooded parts. The first post I found was at the northcast corner of section 6, township 22, range 3, west of the principal meridian. From this point I made a carcful track traverse as far as shown on the accompanying map. From the northeast corner of township 22, range 3, to the southeast corner of section 3, township 29, range 3, the trail is over a dry ridge, the higher parts of which are light sand and gravel, while the lower levels are clay and very stony. From this point the trail follows the east side of a large hay marsh almost due north for about two miles. Along the east and west sides of the marsh there is a strip of green timber, principally poplar, with a small quantity of spruce.

From where the trail leaves the marsh, near the northeast corner of section 3, township 24, range 3, the soil is light and stony to about the north side of section 15. At this point there is a fine spring bubbling out of the limestone rock, which crops out here. The trail then enters a narrow swamp covered with a small growth of seattered tamarack, and turns to the northeast across source good hay land for a distance of about two miles, where it ends at a well defined gravel ridge, which is burnt bare in places or covered with dead jack pine.

I followed the ridge in a northwesterly direction to Fisher river, which is about forty fest wide, with very little current, and banks about trenty for high. I left the horses at the river and followed the ridge for some distance; it was, howver, so covered with fallen timber that I decided not to take the horses any farther northbut to go, if possible, in a northeasterly direction to the Fisher River Iudian reserve. Accordingly, I retraced my steps to the cast side of section 25, township 24, range 3, where I met a number of Indians from Rabbit point, who were picking sencer nort. They came in by way of Swan lake, Birch lake and Slave lake, and as they had found the muskegs very soft, they concluded to return by our trail. They had endeavoured to make their way northeast to Fisher river, but encountered so much wet e-winty that they turned back. I followed their trail to about the middle of section 33, township 24, range 2, where it ends, and leaving the ponies here. I travelled northe sets about similes.

As it was impossible to take the horses across to Fisher River reserve, or in fact in any direction except the way I came. I decided to go around to the Lake Winnipeg side, and see as much of the country as possible by striking in at different points from the trail leading northerly along the lake from Selkirk. The country above described was all burned over some years ago; there is a second growth of timber in places, but none of marketable value. The vegetation on the high land, when I saw it in October, did not seem to be luxuriant, and the marshes were mostly too wet to admit of saving the hay, which was of an inferior quality.

Travelled Schlirk on October 22, and proceeded to Gimli. From there I travelled west along the centre line of township 19, ranges 1 and 2, east of the principal meridian. The eastern half of townships 19 and 20, in range 2, is fairly good land, though somewhat stony ; and is covered with a heavy growth of poplar. A number of Galician squatters have settled in this locality, and have made small clearings. The soil, although stony, is very good. In the centre of township 19, range 2, there is some exceellent spruce timber, covering an area of two or three square miles. Township 19, range 1, is very wet ; the greater part of it has recently been burnt over.

I could not get my horses any farther west than the east side of range 1, and it was impossible to travel north because of the muskers. I therefore followed the trail northerly along Lake Winniper to the centre of township 22, from here I went west and camped on societion 24, township 22, range 2, east of the principal meridian. Leasting my outfit at this point, I crossed ranges 2 and 1. There is a good deal of first-class land in this vicinity. Township 22, in ranges 1 and 2, is principally opeu, with small bluffs of timber. The lower portions were quite dry in October, and covered with a rank growth of excellent thay; the higher land is a fine clay loan, free from stones. The land lying to the west of the principal meridian stony, and the muskegs are to ower for have, except about the edges. Township 23, range 2, east of the principal meridian, contains some good land, but it is lighter than the soil in the vicinity of Icelandic river, and more or less stony.

From Geyser, I fravelled along a good trail to the Fisher River Indian reserve : it follows a ridge of hich land nearly all the way from the crossing of Icelandic river on section 1, township 23, range 3, east of the principal meridian. Very little of the land along the trail is of any value for agricultural purposes. The soil is light stand, gravel and clay, covered with stones. Some good timber between the fourteenth mile north of Icelandic river and the twenty-second mile was killed a year ago by fire. From the twenty-second mile to the Fisher River Indian reserve the timber is mostly small jack pine. The land within the reserver is good clag, and free from stones, but in every direction outside of the reserve the high land is light and the maskegs very soft.

Oving to the character of the country and the scarcity of horse feed at this time of the year, I found it necessary to pay off up men, and in doing so,I made sufficient allowance in each man's time to take him back to his home. After waiting a day or two for the muskegs to freeze sufficiently to carry men on foot, I engaged three Indians and started across to the norrows of Lake St. Martin. The first two miles from Fisher river is over fairly good hay land in a dry season, but from there on to the sonth-west comer of rowship 29, range 2, west of the principal meridian, the country is an immeuse marsh intersected with narrow sandy ridges running about north-west. Near the south-west corner of township 29, two gravite fills rise abruptly from the muskeg to a height of seventy or eighty feet ; they occup an area of about a mile sounce, and are covered with a light growth of jack pine.

For six miles farther our course was over a wet country to about a mile west of Mantagao river. Up to this point the country has been burnt and is now mostly open with a second growth of small scrub in places. Extending from a mile west of Mantagao river for about ten miles is a belt of green timber principally spruce and tamarack. The tamarack growing on the muskeys is very small, and the spruce, although some of it is large, is mostly too small for railroad ties, and is sattered. After crossing this belt of timber the country becomes more ridge with swamps leving bring between ; the bearing of the swamps is generally north-west. The tridges and swamps are all of

the same general character, the ridges being light and stany and everyel with a second growth of jack pine, averaging from two to four inches in dimeter. There are small isolated clumps of the original jack pine, averaging from six inches to one foot in dimeter. The swamps are mostly covered with ise, and are apparently never dey at any season. This is the character of the country as far as the line between ranges 6 and 7; from this to Lake St. Martin, the ground is high and light with very few sloughs, and the soil is too light to be of any value. From the narrows of Lake St. Murrin 1 went to Fairford to get supplies, and secured an Indian with his dog train to take them to Gypsum lake, from which point we packed an outfit in a north-westeply direction, as shown on the map. From Lake St. Martin to Gypsum lake, there is a large amount of good hay land with very little timber, but from Gypsum lake to Water-Ben lake the country is of the same general character as that bying to the east of Lake St. The travelling from Lake St. Martin was tedious in the extreme ; our course lay a network the ridges and awamps, and it was almost impossible to squeeze between the -small jack pines.

Approaching Waterhen lake, the country becomes very vet. Close to the lake there is some good hay land, but back from it the swamps are too soft for hay. On striking Waterhen, I came down to Winnepegosis and from there to Winnipeg. Between Fisher river and Winnepegosis, there was very little snow, and we had to move everything on our backs. I thought it better tog to Winnipeg for a time and prepare a map, with the intention of returning to the field as soon as the snow became deep enough to enable me to use toologgans and snowshees.

On January 7, 1901, I started from Reaburn and drove to Rabbit point, where I secured two Indians and proceeded north. My object was to find and locate, as nearly as possible, a large lake the Indians told me was about twenty miles north of Sleve lake. Sleve lake is the source of the Mantagao river. The waters of the lake find their way north through marshes connected by a small creek to a lake known to the Indians as Birch lake. As there is another lake of this name lying to the south of Sleve lake, I have ealled this one North Birch lake on the map. The country between Sleve lake and North Birch lake is covered with small green timber. The ridges run north-west and are covered with small green poplar from two to ten inches in diameter, while the lower ground is mostly covered with spruce and tamarack. Searcely any of the tamaraek is large enough for railroad ties, and the spruce is small and scattered. North Birch lake is nearly three miles long, and from one and one-half to two miles wide. The north and south banks are high and covered with a heavy growth of poplar and some oak. Limestone crops out in the ridge on the south side of the lake, and on a small island at the west end. From here I returned to Winnipeg, where I arrived on the 31st of January.

Speaking generally of the whole country lying between Lakes Winnipeg, Manitoba and Winnipegosis, the best land is close to the lakes, while in the interior, it is swamps, marshes and stony ridges.

I have the honour to be, sir,

Your obedient servant,

THOS. TURNBULL, D.L.S.

APPENDIX No. 9 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF JAMES DICKSON, D.L.S.

SURVEYS IN SWAN RIVER DISTRICT, MANITOBA.

FENELON FALLS, February 19, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa.

SIR,-I have the honour to submit the following report of my operations during the past season.

On April 11 last I received your instructions, dated two days previously, to proceed to the neighbourhood of Swan lake, Manitobe, to survey some outlines and subdivide certain townships in that locality. On the 21st I received a telegram informing me that I should first retrace the lines in township 17, range 18, west of the principal meridian, and that instructions therefor would be mailed to me at Dauphin.

I started for the west on April 23, and arrived at Winnipeg the following Thursday forencon. Here I had to remain until Monday to get supplies and have them shipped to Dauphin. Before learing I was joined by Messrs. Nosworthy and Gross from Lindsay, and I engaged two axemen, with whom I arrived at Dauphin on Tuesday evening, May 1.

Next day and part of the day following I engaged my party, and had the wagons fitted up and loaded. On Thursday afternoon I started the party on the trail leading across the Riding mountains, but remained behind one day myself to take along a man who was not prepared to start out with the others.

I left Dauphin on the 4th, and overlook my party next day before noon. The worklor for some time had been dry, and the roads were fairly good; but from the nature of the soil I saw that a few hours' rain would render them impassable, and as there were indications of rain, I travelled all next day, Sunday.

I arrived at the south boundary of township 17, range 18, on the following Wednesday, and camped near the southeast angle of section two. We commenced work next day by tracing out the east boundary of section 36, township 16, range 18.

Township 17, range 18, was subdivided in the year 1873, but as the survey was believed to be erroneous, I was instructed to restore the old lines as nearly as possible, and prepare an accurate plan of the township.

I produced the east boundary of township sixteen due north across township seventeen, and at the north side of each section 1 traced out the chord to intersection with my line, both in this township and in the township to the east. I found the lines in every instance. At the northeast angle of sections 1, 13 and 25, the settlers showed me where they had seen the original post standing, and in every case when I produced my line to the point it was within one foot of the spot shown me.

At the northeast corner of the township I found a large eadar post, which I have no doubt is the original post; but it was lying on the ground, and I could not find any trace of where it had stood, nor could the settler throw any light on the matter I chained the north boundary from my line to Otter lake, where I found an original post standing; the distance from my line to the post sareed so closely with that

shown on the plan of the township that there can be no doubt of the accuracy of my line. I found no trace whatever of the original line ; but there is a colonization road along the east aide of the township which, after it leaves section 12, trends gradually towards the east until the north side of section 25 is reached, when it turns due east into the next township. The settlers seemed to believe the road constituted the east boundary of the township, and had fenced accordingly. It was evidently a case in which the surveyor found his line was wrong, and instead of running it over again, merely established the corners of the sections by offsets. I subsequently met a settler who knew how the boundary had been run, and had also assisted in cutting out the road, who columitered the statement that the above was what really did take place.

The township is well settled along its south and east boundaries; there are also a few settlers in the interior. They are mostly Swedes, and are a good class of settlers.

At the time the first survey was made, the township must have been covered with a heavy growth of poplar, balm of glieda and white birch; but a large part of it has since been burnt over; some of it is quite bare, consequently all traces of the original lines and posts are gone.

Where the woods were in the original state, or even partly so, I experienced no difficulty in finding the lines, as they had been well blazed. I also found quite a number of the original posts, and at some points, although the posts were gone, I obtained their positions accurately by the intersection of the old lines. In every instance where I found original marks of any kind I althered strictly to them i where there were none to be found, I made the survey in accordance with the provisions of the manual.

Otter lake, in the northcast part of the township, is a fine body of water and well stocked with fish; it is the source of the Rolling river. There are a great number of lakes in the township, most of them are very small, only a few being large enough to require traversing; they were, however, a great hindrance to the work of the survey, as I had upwards of seventy triangulations to make, and each lake is surrounded by more or less marsh. Elk and duck are plentiful, so this must be a sourtsmarks paradise during the hunting season.

It will be seen from my plan of the township that the lakes differ very much in size and shape from the plan of the original aurvey. This is the more remarkable as I failed to find any evidence of their levels having been affected by beavers or any artificial cause.

While working in this township, I received your instructions of May 4 to survey, next, townships 33, ranges 28 and 29, west of the principal meridian, and also your letter of May 8 instructing me to complete the survey of township 34, range 28, consisting of three miles.

I finished the survey of township 17, range 18, west of the principal metridian, on July 8 ; the following day 1 left for Minneloa, and from there went by train to Yorkton. On July 12, I started for the north end of the Duck mountains by the Fort Pelly stail, and by noon of Saturday, reached the Indian Ageney on the Oct creserve, where, through the courtesy of the agent, Mr. Jones, I procured an Indian guide, as I knew working of the route to my work. Three miles north of Oct, we struck east from the Pelly trail and travelled twelve miles over a fairly good trail, amping in the evening day, reached the south boundary of township 33, range 29, one mile and three-quarters east of its west boundary.

I commenced the survey of this township on July 17, and completed it in August 16. I took defarations from three sounters in the township and travessed their improvements. One of them had done no breaking : the other two had. A lad had a few areas under cropi n section 36, but he was too young to be entilled to a humestend, and as his father had made the improvements for him. I did not take a deduration, but have shown the breaking on the plan of the township.

in.

1-2 EDWARD VII., A. 1902

I moved east into township 33, range 28, and commenced the survey of it on August 17. The northeast part is so stony and so broken up by gullies as to be utterly worthless : I, therefore, did not ran the east boundary of sections 27, 34, 14, 29, 26 and 33, nor the north boundary of sections 23 and 24. There are two squatters in the township : I took a declaration from each and traversed their improvements.

I had while in this township received your instructions of August 14, to subdivide as much of township 32, ranges 29 and 30, as I could before disbanding the party. I commenced the survey of township 32, range 29, on September 17. From the north boundary of the township, I ran four miles of the east outline, three miles of each of the two adjoining meridians, and the whole of the remaining ones. At the south boundary, I planted iron posts properly marked on these meridians, but as the line was not run, I did not put mounds at the corners.

I also ran the south chord across sections 9, 8 and 7 to Beanhend lake, and the whole of the north chord accespt across section 9. I would have run that portion also, but had not time to trace out the west boundary. The squatters and Indians insisted that the lake should be called Clear Water lake ; I, however, pointed out to them that on the government maps there was a Clearwater lake shown at the head of Beanhead creek, some miles to the south, and as no name was given to this lake on any map I had seen, I intended to call it Beanhead lake, by which name it would be known in future.

There are five squatters in this township, and I took declarations from four of them; the fifth was not at home. I finished work in this township on October 6, and moved into township 34, range 28, where I ran the east boundary of sections 3, 11 and 2, which completed the survey of the township.

On the 11th, I drove with my party to Swan river, and disposed of my horses by public anction, stored the wagons, &c., for the winter, and discharged the party, except two men and the cook. I left Garland with the three men and went north-east on the Pine river trail to inspect the survey of township 33, ranges 19, 20 and 21, and township 34, ranges 19 and 20, in accordance with your instructions of September 18.

I finished this work on the 22nd, and started for home by the first train south from Garland. I reached home on October 31, after an absence of about six months.

I have the honour to be, sir,

Your obedient servant,

JAMES DICKSON, D.L.S.

APPENDIX No. 10 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF J. C. DESMEULES, D.L.S.

SURVEYS IN THE DAUPHIN DISTRICT.

E. DEVILLE, Esq.,

MURRAY BAY, December 31, 1900.

Surveyor General, Ottawa.

Sim,—I have the honour to submit the following general report of my field operations in the Duaphin district during the season of 1509 and 1900, in connection with the different surveys allotted to me under your instructions dated September 26, 1899, and those of subsequent dates.

Owing to previous engagements, both with the local government of Quebec and some private parties, I was unable to leave Murray Bay before October 18. I arrived in Winnipee on the 22nd, where I engaged my party of twelve men.

After having bought supplies and completed my outfit, I left Winnipeg on the 24th and arrived at Cowan the following day, where I pitched the tents and waited for my supplies until the 28th. In the meantime I was busy looking for the starting point of my survey, training chainmen, and verifying instrument and chain.

Having met J. L. Reid, D.L.S., who had run the north limit of township 35, range 32, I obtained from him a sketch of the line together with other information, and I was able to begin work on October 31 by running the east meridian of section 2, township 38, range 23. I continued work by running successively the meridian of section 11, the north limit of section 12, and east meridian of section 3, and on November 9 moved came about five miles.

I finished the survey of the above township on January 2, 1900. Up to November 24, no frost of any account was experienced, and the survey over the wet and swampy country proved very ardious and slow.

Township 36, range 23, west of the principal meridian. East boundary of sections 9, 11, 14, 33, 96, 35. This line in the first three-quarters of section 2 runs north over a rolling country covered with jack pine, then a pruce muskeg is intersected, which continues on the following sections to the north limit of the township. A lake of elear water covers about one-third of section 24, the rest of the section being swamps and servec muskes.

East boundary of sections 3,10,15,22,27 and 34. This line on the first three sections runs north over a rolling country covered with heavy windfalls and overgrown with jack pine and young poplar. The Canadian Northern Railway is crossed at 60.66 chains on section 10. East of sections 22, 27 and 34, the country is swampy and covered with soruce muskers.

East boundary of sections 4, 9, 16, 21, 28 and 33. The whole of this line, as well as the remainder of the township, traverses country which ranks second and third class for farming purposes, but the proximity of the railroad should add to its value by reason of the great quantity of firewood, fencing, building timber and ties that can be got out of the country.

The Sincleir river, a tributary of Swan river, runs through sections 8, 17, 18, 19, 29 and 30 of this township. The Canadian Northern Railway traverses sections 2 and 11 in a northerly direction, then turns to the west north-west on section 15, crosses sections 15, 16, 17 and then runs due west at the north end of section 13. Owing to the west state of the country up to December 3, when the ground commenced to freeze, 25-11-3

1-2 EDWARD VII., A. 1902

we could hardly cross the swamps and muskegs covering the greater part of this township, and the survey work was in consequence much retarded. Besides this, the thick fallen timber intermixed and overgrown with jack pine and brush, made it a very arduous task to open and run lines. I was, therefore, kept much longer in this township than I at first expected.

After opening a road to earry the outfit and provisions from Cowan, I moved camp to the southeast corner of township 937, range 94, and began work in this township on January 11 by running the east outline and north boundary. I completed the subdivision of the township on March 17. It was a tedious task to run the lines through the dense growth of large poplar and spruce, with thick underbrush of dry willows in large bunches, adders, and serue, bit theix underbrush of dry timber.

The quality of the land in this township, chiefly in the west part, may rank first class for farming purposes, and the rich forest of large pophar and spruce covering the ground offers every advantage for building and lumbering. The east part ranks second class, but is not of less value either from a trading or lumbering point of view. Sinchir river enters the township on section 2, and runs diagonally through sections 3, 4, 5 and 6.

On March 19, I moved camp towards Cowan, where I arrived on the 21st, after two days of hard labour dragging overloaded toboggans through two and a half feet of snow. It was the 26th before I could leave Cowan by rail for Pine river station, situated in the south-west corner of section 33, township 32, range 22, where, according to your instructions of January 23, 1900, I was to subdivide the eastern half of the above township. After pitching my tents at the north-east corner of section 34, I began work on the 29th by running the meridian east of sections 34 and 27, and then ran successively the meridian outlines of sections 35, 26, 22 and 23, and north limits of sections 22, 23 and 24, when I was obliged to close operations altogether in that quarter on April 4. The snow completely disappeared in three days of very warm weather, and the country was so overflowed that I was compelled to stop work and leave at once for Pine river station. Besides this, the remainder of the township is low land consisting in a great part of tamarac muskegs and swamps, which the Pine river overspreads, and is apparently of no value and could be subdivided to better advantage during the winter or a dry summer season. The subdivided portion of the north-east part of the township, viz. : sections 22, 23, 24, 25, 26, 27, 34, 35 and 36 is swampy, with the exception of sections 22, 27 and 34, which are dryer and covered with spruce and tamarac six to eighteen inches in diameter, fit for building and lumbering purposes.

Bridges along the railway line were swept away owing to the flooded condition of the rivers and creeks, and the trains were very irregular and unsafe. I was in consequence delayed at Pine River station until April 10, when I reached Sifton Junction, but had to wait there until the 13th for a train to Winnipegosis.

In reply to my telegram to Ottawa as to horses and the necessary camping outfit. I was instructed that they could be had at Cowan, where they were in charge of William Sifton. I knew that no horses could be obtained there, and after many inquiries I learned that the horses and outfit were at Minatonas, on a farm belonging to Mr. Sifton, about twelve or fifteen miles west of Cowan station. On May 19 I sent one of my some with another man who knew the road in the part of the country between Winnipegosis and Minatonas to get the horses : but both returned next day completely disabled from two days travelling through an overflowed country. Seeing that it was impossible to get the horses safely from Minatonas in this way, I thought it advisable to have them brought over by the railroad, and for that reason I sent my eldest on upon a hand-cer to Sifton station with instructions to wait for the first train to Minatonas. On April 27, he returned with the horses and awgons.

On May 1, I moved my camp to section 2 on the base line between townships 31 and 32, range 19. Whilst there I opened a road across the base line as far as section

iii

31, in order to transport mg outfil when audividing township 31; I then mored eamp to the north limit of township 32, range 19, and subdivided the west part of this township. On Mg 17, I moved into township 31, range 19, and completed the subdivision of the west part on June 8.

Township 32, range 22, west of the principal meridian. East boundary of sections 34, 27 and 22. This line was run south over a lovel country covered with willow, alder, spruce and poplar, six to twelve inches in diameter, together with heavy windfalls and dry fallen timber.

East boundary of sections 35, 26 and 23. This line runs south and crosses a hay marsh extending southward from 24 chains in section 35 to 23 chains in section 32 is the surrounding country is level and swampy. The remainder of the section is dryer and grown with black spruce and a few birch tress. On section 23 the line crosses a hay marsh extending from 10 to 50 chains southward, with scrub and scattered spruce, tamare and birch trees, six to twelve inches in diameter. The line crosses Pine river at 34 chains in section 22, thence the country is swamp; as far as 60 chains, where it becomes dryer and is burnt scrubby paritie.

Township 32, range 19, west of the principal moridim. East boundary of sections 6, 7, 18, 19, 30 and 31. This line runs through a level country covered with poplar, willow, alder and thick brush, with muskegs, swamps and heavy windfalls intervening.

Township 31, range 19, west of the principal meridian. East boundary of sections 5, 8, 17, 20, 29 and 32. This line was run south over a level country thickly covered with a new growth of poplar, willow, alder and brush, forming an almost inextricable network with the heavy windfalls.

East boundary of sections 6, 7, 18, 19, 30 and 31. This line runs south over the same kind of country as the above line ; it is overgrown with a thick growth of young poplar, &c., and scattered bluffs of poplar, spruce and tamarac, six to twelve inches in diameter.

The two portions of townships 31 and 32, range 19, above described are not of any value, except for the timber, which is suitable for ferening and building purposes. The numerous muskegs and swamps covering the greater part of the country make it difficult to get through with wagons, which sink to the axles. After satisfying myself that the survey of townships 31 and 32, range 20, could not be done to advantage at this season of the year, I deemed it advisable to suggest that this sink should be postponed until winter, and asked for instructions as to surveys in a more suitable part of the country.

Having in the meantime made the survey of the north limit of township 31, range 20, I closed operations in this locality on June 21, and moved camp back to Winnipegosis on my way to townships 27 and 28, range 23, in pursuance of your instructions of June 18. On June 25, I sent men and part of the outfit with the wagons across to Ethelbert, whilst I and one of the men vent by rail with the bulk of the outfit. On the 28th, I left Ethelbert with my party and travelled about fourteen miles to the 8th base line. From June 29 to July 2 we were employed in cutting a road through heavy bush and thick brush, in order to reach my starting point at the n, rtheast corner of section 34, township 28, range 23.

After moving camp to section 33, and finding that it was implexible to go farther with the wagons in consequence of the roughness of the camplex process is by deep ravines and obstructed by the thick forest. I was obliged to adopt another mode of conveyance. It consisted of two poles about eighteen feet lour, fixed at one end about three feet part by two cresspices firmly fastened to the poles with strong iron bolts. This conveyance, drawn by one horse, carried loads of three to four humdred pounds, through the dense forest and hilly country we had to travel, by the cleasing of the east meridian of township 28, range 24, where I was able to again us the wagons up to the end of the season.

ΰii

1-2 EDWARD VII., A. 1902

I produced the 5th base line westward for three miles, and ran successively the east outline of township 28, range 24, the north boundary of township 27, range 28, the east meridian of fractional township 27, range 28, and the 7th correction line south of said township 27. The country through which these lines were run is rough and hilly, frequently broken by deep raviues and densely wooded with large timber and thick underbrush, or is burnt country, with heavy layers of fallen timber and overgrown with young poplar, willow and alder. I subdivided fractional township 27, range 23, as I considered it suitable for immediate settlement, and for the reason that some Galicians and other settlers had squatted on sections 38, 34, 22 and 14.

Township 25, range 23, west of the principal meridian. North boundary of sections 33, 32 and 31. This portion of the 5th base line runs over an undulating country covered with a heavy growth of poplar, apruce and birch trees for the first part. Over sections 32 and 31, the country is more broken and hilly, and where the original forest has been destroyed by fire, is now a thick growth of young poplar, willow and aldre intermixed with fallen timber.

Township 25, range 24, west of the principal meridian. East boundary of sections 36, 25, 24, 13, 12 and 1. This line runs over the southeastern alope of Duck mountain, where the country is frequently broken by deep ravines containing small streams running eastward, which are likely the headwaters of Drifting river. A heavy forest of poplar and spruce, six to twelve inches in diameter, together with a thick underbrouch, covers the ground in sections 25, 24 and 13; the country through the remainder of the sections was burnt, and is now covered with young poplar, alder, willow and serub.

Township 27, range 23, west of the principal meridian. North boundary of sections 31, 32, 33, 34, 35 and 36. This line was run east through a rolling country slightly sloping to the southeast, and crosses several streams flowing into Drifting river. The ground is covered with a dense growth of young polar, willow and scrub, the original forest having been destroyed by fire some years ago, except in a few hollow where scattered bluffs of poplar and spruce arcs still to be seen.

Meridian east of township 27, range 24. This line was run south, through sections 36, 25, 24, 13 and a gore on section 12 of 4.31 chains, as far as the 74th correction line. The character of the country along this meridian is similar to that of the above line. A branch of Valley river is crossed near the north of section 25, where a few stacks of hay have been cut in the neighbouring marshes by settlers from the Gilbert plains.

The orrection line, south of fractional sections 7, 8, 9, 10, 11 and 12. This line was run castward over an undulating country overlooking the Gilbert plains towards the south. A branch of Valley river is crossed on section 8, and a lake of good clear water on section 9. The land is first-class for farming purposes, and covered with a new growth of young popular, alder, willow and serve. The original forest was destroyed by fire some years ago, but several scattered bluffs of poplar are to be found which the fire did not reach.

Mr. Mathews has built a lime kill at the north end of section 32, in township 26, range 23, and gets the limestone out of a ridge overlooking a hollow in which the branch of Valley river already alluded to, rises. A good trail leads from this place northward to Ethelbert on the Canadian Northern Railway, and southward to the towns of Umatilla, Oaknook, Valley River and the settlements of the Gilbert plans:

East boundary of sections 31, 30, 19 and 18. This line was run south, and on section 31 crosses a branch road leading from Ethelbert to Fort Pelly across the southern slope of Duck mountains ; there is another branch of the same road between sections 30 and 31 leading to Valley River in the Gilbert plains. The latter branch follows the windings of a small brook flowing southward to the middle of section 18, when it turns castward on entering township 26, range 23. The country along this line is undulating and covered with fallen timber, poplar, willows and brush, together with some scattered buffs of poplar sits to ten inches in diameter.

East boundary of sections 32, 29, 20 and 17. This line was run south, and crosses a branch of Drifting river in sections 32 and 20. The country is undulating and covered with a heavy growth of poplar and spruce six to ten inches in diameter and a thick underbrash of willows, alder and scrub, intermixed with a heavy layer of fallen timber.

East boundary of sections 33, 35, 31 and 10. This line crosses another branch of Drifting river twice in section 33, and the first branch, above mentioned as crossing on section 32, crosses here again in section 31. The country is undulating ; sections 33 and 25 are covered for the most part with spruce and tamara six to ten inches in diameter ; sections 21 and 16 are covered with poplar six to ten inches in diameter and underbrank of willows, alder and serub, with fullen timber intermixed.

East boundary of sections 34, 27, 22 and 15. The country over which this line runs is unabulating and covered with a heavy growth of poplar six to ten inches in diameter, and a thick underbrash of willows and alder. Sections 36, 24, 14 and 22, in township 27, are settled upon by homesteaders. Although these people settled here only a few months ago, they have raised a sufficient quantity of potates, turnips, cabbages and other vegetables for their use during the coming winter.

Township 27, range 23, is a fine piece of country, and very suitable for farming purposes as well as for stock raising and humbering. At least scener/sfee per cent of it ranks first-class; it is well timbered, and abundantly furnished with water throughout the whole year by means of wells easily built, or by the numerous ponds and creeks emptying towards the south into Valley river and towards the east into Drifting river.

Having completed the subdivision of township 27, range 23, 1 thought it advisable before leaving the work to subdivide sections 9 and 12 in township 25, range 23, as several Galician families had selected homesteads in these sections, and furnished me with statutory declarations. In order to locate their claims I survayel the sui: and west boundaries of section 2 and the west and north boundaries of section 12. A great number of Galicians are likely to settle in this part of the country. As a rule they are good workers and faithful employees, so far as I can judge from personal experience, having engaged some of them as labourers on the survey during the summer. From an agricultural point of view they are a most desirable class of settlers.

On October 3, I left the field for Ethelbert, the nearest station on the Canadian line of railway, where I discharged the men who had been hired at this point, and also disposed of the horses and outfit, &c. On the Sth, I left Ethelbert for Winnipeg; after discharging the remainder of my party and settling some accounts. I left for home. I reached Murray Bay on October 13, after an absence of nearly a year.

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

> > J. C. DESMEULES, D.L.S.

APPENDIX No. 11 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF P. R. A. BELANGER, D.L.S.

SURVEYS IN PASQUIA MOUNTAIN.

OTTAWA, March 4, 1901.

E. Deville, Esq., Surveyor General, Ottawa.

SIR,-I beg to submit the following report on my operations during the past season :--

In compliance with your instructions dated February 3, 1900, to continue the survey of the second meridian, and base lines therefrom, I telf home on February 7 for my initial point in township 47 on the second meridian, and after stopping at Winnipeg and Yorkton to hire men and buy supplies. I reached Fort Pelly on the 16th Here, I spent a week examined a contract survey, after which I made arrangements with the freighters to take my outfit and supplies from Fort Pelly to the intersection of Overflowing river with the second meridian, a distance of over one hundred milles of which upwards of ninety miles was through a bush country with no road and about two feet of snow on the ground. The journey was made under great difficulties, and though I had to pay the exorbitant rate of five dollars a hundred for freight, we were obliged to trans down the snow with our snowshoes for the freighters who followd us at the rate of about is miles a day. This mileage was as much as could be done under the circumstances. The hardships the horses had to undergy, orgether with the want of proper food, told so much on them that three died on the return trip, which caused a loss to the freighters allowst

I reached my initial point on March 12, and started work on the second meridian by re-measuring township 47 in order to make a correction of two chains at the 12th correction line to compensate for an error in surplus found in township 32. From township 47, I prolonged the meridian to the north-east corner of township 33, a few chains south of Carrot river where I stopped work on April 5, because of the great depth of snow water which covered that flat country and rendered progress farther north entirely impossible.

The return journey from Carrot river to the intersection of the 12th base line with the second meridian, where I had a dept of provisions, was extremely ardunus. The men packed one hundred pounds of freight on their backs, and made two trips a day to carry the outfit and supplies over a distance of four miles a day. The fine warm weather, which prevailed in the early part of April, caused the source to melt in one week; the water rushed down from Pasquia mountain and submerged the flat country before the creeks were open to carry it away.

I reached the 12th base line on April 23, and produced it eight and a half miles west to the intersection of a pack trail. I then moved southward on this trail to my next work on the 11th base line. I reached my initial point on the base line between rances 8 and 9 on May 16, and left my assistant in charge of the party with instrutions to run meridian outlines, and 1 started for Yorkton to buy supplies, horses, &c., to complete my summer's outfit.

On my return, I produced the 11th base line as far as range 15 where I tied on to the base which had been run from the west. I also ran some meridians to tie with the 10th and 12th base lines, after which I returned to the north.

On August 3, I resumed work on the 12th base line, and ran it to range 9 where I stopped on September 10. I ran the east boundary of range 9 southward to the 11th correction line in order to get out of the bush, and to comply with your instructions, dated August 9, to examine a contract survey before returning to Ottawa.

Having given a short resume of my work in connection with the different surveys allotted to me, I will now give a general description of the country over which I passed.

Second Meridian.

Township 48, From the intersection of the meridian with Overflowing river in township 47 northerly, the line runs through a low, level, wet country, covered with scrubby apruce and tamarack swamps alternating with bare muskegs. Small creeks cross sections 12 and 13 in a south-easterly direction.

Township 49. This township is of the same character as township 48, and entirely unfit for anything. Pasquia river crosses section 24, and is hero only a small stream about 15 to 20 feet wide. It rises on the north-west on Pasquia mountain and runs across the meridian in a south-easterly direction for some distance, after which it turns north-east.

Township 50. This township is also very low and wet, and is covered with spruce and tamarack swamps interspersed with scattered birch and scrubby black poptar. Numerous creeks cross sections 13, 24, 25 and 36. The eastern point of Pasquia mountain is a short distance west of the meridian, on sections 26 and 35.

Township 51. Sections 1 and 12 appear low and level, but the remainder of the township is occasionally broken by small burnt ridges, alternating with tunarack swamps, and may be called rolling country. There appears to be a gradual fall from the centre of the township to the north ; this would indicate that the height of land is between Overflowing river and Carrot river. Waskewi river, a stream 75 links which rises in the south-west on Pasquia mountain, runs north and crosses the meridian in sections 25 and 36, after which it turns northeast to a large muskey where it loses its water.

Small creeks cross sections 1, 12 and 13. With the exception of section 36, the timber is fire-killed and consists of scrubby, dry tanarack and jack pine, and is only fit for fuel.

Township 52. This township is also low and generally wet, and mostly covered with spruce and tamarack ; a good percentage of the timber is suitable for building and even lumbering purposes. The soil is third and fourth class, except on section 13, where it is first and second class.

Township 53. This township may properly be described as a floating bog ; it is extremely low and covered with tamarack swamps, muskegs, sloughs and unmerous lakes.

A large creek, 40 links wide, crosses section 12, running casterly ; a few chains on each side of its banks there is a belt of good timber. Another belt of good timber crosses the southern part of section 1.

The large tract of land as seen from the second meridian between Overdowing river and Carrot river, a few chains north of township 53, is entirely unfit for settlement.

11th Base Line.

Range 9. This range is rolling burnt country, covered with scrub. Creck- are crossed on every section, except section 36. The soil ranks first class.

Range 10. Heavy, rolling burnt country, corered with scrub. On section 31 there is a range of high hills, which is the beginning of Greenwater hills. Creeks are intersected on every section. The most important is Copeau river, crossing sevtion 32; it is only usenty links wide, but was six feet deep at the time of the survey. The soil ranks first and second class.

1-2 EDWARD VII., A. 1902

Range 11. Heavy, rolling and hilly open country, covered with scrub. Greenwater hills extend over the whole range. Section 31 is timbered in its west half. Greenwater lake and another large lake are a short distance north of the base line. The soil is generally first and second class.

Range 12 has been burnt over, but is now covered with a thick second growth of poplar, two to four inches in diameter. Greenwater hills extend across the eastern part of the range, apparently as far as section 34. Red Deer river crosses the east half of section 31, it is here two and a half chains with and from four to five feet deep, with a very slow current. Ten chains north of the line there is a rapid, where the river can be forded in one foot of water over a story bottom.

Range 13 is low and level, very stony and gravelly; and is also covered with poplar bush two to six inches in diameter, alternating with large scrubby willow swamps and muskeys. The soil is second and third class.

Range 14 is level and undulating country, partly burnt, and broken by numerous swamps and muskegs. A large lake is intersected on section 34, which extends north and northeast for a couple of miles. The soil is poor, and may be rated third class.

Range 15. The character of this range is somewhat similar to range 14, but the soil improves in the west half, where it ranks second class.

12th Base Line.

Range 1. Section 36 and about half of section 35 are covered by a large tamatrack muskeg extending southwesterly. Over the remainder of this range the line runs through large poplar, thickly mixed with hazel bush, occasionally broken by hay marshes. Smoking Tent broker runs across section 35 in two deep channels about 20 chains apart. Numerous small creeks, rising in a large muskeg south of the base, are also crossed on sections 31, 32 and 33. The soil ranks first and second class.

Range 2. The country from sections 36 to 33 inclusive is rolling, covered with large poplar and heavy hazel bush or willow, and first-class soil. Red Deer view crosses the east half of section 34, where it takes a turn westerly and follows the line for about 30 chains, after which it turns again in a northeasterly direction. At the crossing, it is seven chains wide; there is a small island near its west bank. Another small stream, supposed to be Spring creek, enters section 33. It tries in a large muskeg covering sections 32 and 31, and follows the line easterly for a short distance to the north and empties into Red Deer view.

Runge 3. There is a large tamarack and spruce muskeg on the first three and a quarter miles, then rolling country, which for a mile is covered with day and green jack pine. Fir river, a stream 85 links wide and 18 inches deep, is intersected in the eastern part of section 32; west of the river the line runs through thick poplar and hazel bush. On section 31 is a large swamp. East of Fir river the country is unfit for settlement, while on the west spiel it may be considered first class.

Range 4 is level country, covered with poplar, alder and willow, interspersed with a few hay swamps. There are some creeks on sections 32 and 31, which flow in a northeasterly direction. The soil ranks first class.

Range 5. The country across this range is rolling, but in other particulars it is much the same as range 4; the soil is first class, with the exception of section 33, which is covered by a lake and tamarack muskeg. Greenwood river crosses section 32; it is sixty links wide and three feet deep, with sandy bottom.

Range 6. Gently rolling country, covered with poplar and scrub, and occasionally broken by a spruce or hay swamp. Beginning in section 31, the ground rises westerly at an angle of thirty minutes, and the poplar becomes larger and more dense. About one mile south of the base the timber is burnt; this brule extends westerly and southwesterly. On section 32 is a bluff of spruce suitable for building purposes. The soil ranks first class; it is a deep loam, with clay subsoil.

Range 7. With the exception of the west half of section 33 and part of the east half of section 32, which are covered by a hay marsh formed by an old beaver dam on

a small creek, this range is heavily timbered with large poplar, mixed with hazel or alder.

The surface of the ground is gently rolling, with a gradual ascent of 15 to 30 minutes towards the west, and is first class soil. Pravice irver, a stream sixty links wide and four fect deep, with gravel bottom and slow current, is intersected in the west half of section 32.

Range 8. Is gently rolling or level country, heavily timbered on sections 36, 35, 34 and 33, with black poplar and spruce; the latter is generally suitable for building purposes, some might even be used for lumber.

On sections 32 and 31, the country becomes lower and is broken by large swamps. Here, the spruce fit for lumbering increases in quantity. A brule in the west part of section 31 forms a small prairie in which the township corner lies. From this corner I turned south and ran the east boundary of townships 40 and 39, and closed my survey on township 38.

Township 40 is covered with poplar bush alternating with large willow swamps. The timber is very large in sections 1 and 12 on both sides of Red Deer river; the river is crossed in the north half of section 1. Several crecks running south-easterly are intersected on this meridian. A good pack trail leading from Nut lake to Red Deer lake is crossed on section 12, and another running north-west and branching from the former at a short distance cast of the meridian is also intersected on section 13. The soil ranks first class.

Township 39. The north half of section 36 in this township is timbered with large poplar, but the remainder of the township has been cleared by fire. Small bluffs of dry and seattered green poplar and hay marshes are interspersed here and there. Copeau river, a small stream with muddy bottom is intersected in section 13. The soil is first class; it is a rich clay loam with elay subsoil. This township, as well as township 39, range 8, seems very unitable for immediate settlement, as far as I could judge from the east boundary of range 9.

I also surveyed the east boundary of township 41, range 10; it is heavily imbered, rough and hilly, with the exception of the north half of section 35 and section 36 which are open and suitable for settlement. Copeau river meanders across section 30 sin a north-easterly direction. Another stream, which may be called the east branch of Copeau river, is intersected in section 13, and empties into the main stream a short distance west of the meridian.

There were no settlers between the 11th and 12th base lines, as far as my survey schended, but judging from the quality of the soil and the fact that the Canadian Northern Railway runs a short distance north of the 12th base line, I do not hesitate to say that this land will be settled before long.

On September 36, I broke earnp and proceeded to Fishing lake where I examined a main of the second second second second second second second second second of line, after which I continued my journey to Yorkton, and having delivered my outfit to Mr. Reekie, proceeded to Winnipeg where I discharged the balance of my party on October 13.

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

P. R. A. BELANGER. D.L.S.

APPENDIX No. 12 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF A. J. BRABAZON, D.L.S.

RESURVEYS AND RENEWAL OF MARKS NEAR YORKTON.

PORTAGE DU FORT, QUE., March 16, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa

Sm,--I have the honour to submit the following report on my operations in the field during the past season. Your instructions, dated June 29, 1990, were to renew the survey marks in township 28, ranges 5, 6 and 7, and in township 24, ranges 6 and 7, and also to dispose of certain survey outfits stored at several places between Dauphin and Yorkton.

I left Ottawa on July 16 and arrived in Winnipeg on the 15th, where I bought a store and some tents. The following morning I left for Dauphin, where I met Messra. McFadden and Gaureau. Here I disposed of the outfit stored with Robert Hunt, and on Saturday, the 21st, 1 left for Swan river, where I sold a horse wintered by O. C. Markham. From this, I went to Loat's farm, where Mr. Hubbell's horses were wintered. After settling with Loat for the wintering of the horses, I left for Minitonas, and disposed of the outfits stored there, and also settled with Mr. Sifton for wintering Mr. J. L. Reid's horses. On the 26th, I left for Pelly and sold an outfit stored with the Hudson Bay Company by Mr. Belleau. I left for Yorkton on the 28th, where I bought my supplies, and after having the outfit put in order, I left for vorship 23, range 5, on August 1.

I renewed the corners in this township and found that not only the creek, but almost every slough shown on the plan of the original survey had become dry. Mr. Gauvreau, my assistant, who remained with Mr. McFadden when I left Dauphin on July 21, joined me on August 6. Having completed the renewal of the corners here, I proceeded to township 23, range 6, in which I also renewed the marks of the corners, and found the same conditions as mentioned in the above township to prevail with regard to water. I then moved into township 23, range 7, and as many of the corner marks were obliterated, while most of those found were very erroneously located, I resurveyed the township. The only water found here was a slough on the east boundary of section 7, a pond in the south-west quarter of section 21, and a pool in the creek bed near the north-east corner of section 16. I also re-surveyed the greater part of township 24, range 7, as many of the corner marks were obliterated. The creeks and many of the ponds shown on the plan of the original survey of this township were dry. I completed my survey by renewing the corner marks in township 24, range 6. In this township no water was found, so it was necessary to dig for a supply. After several fruitless attempts, good water was struck in the creek bed in section 15, at a depth of less than four feet. The survey of this township was completed on October 26, and after settling some business matters in Yorkton, I left for home on the 31st.

I have the honour to be, sir,

Your obedient servant,

A. J. BRABAZON, D.L.S.

APPENDIX No. 13 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF J. A. BELLEAU, D.L.S.

SURVEYS IN THE THICKWOOD HILLS.

Department of the Interior, Ottawa, February 28, 1901.

E. Deville, Esq., Surveyor General, Ottawa

Sin,-I have the honour to submit the following report of the survey of meridian outlines executed by me during the past season in the Thickwood hills.

In compliance with your instructions, I left Ottawa on April 9 for Prince Albert, where I organized my party. I stopped in Winninge one day to get the iron posts required for the survey from the Manitoba Cartage and Warehousing Company. On receipt of your telegram dated April 13, giving me the names of the men appointed on my party, I started for Regima, where I met Messrs. Sweet and Fisher, and proceeded with them to Frince Albert. The hiring of the balance of my party was made without delay i the horses which I required could not be had in the town, so it was some days before I could purchase suitable ones for the work. Harness for the wagons and buckboard had to be made. The iron posts, which were ordered on April 12, only arrived in Prince Albert on the 22nd, thus delaying our departure for several days.

On April 23, my outfit being complete, I started with the party for Aldina, via Green Lake trail, which we followed as far as Carlton crossing, where I was informed by the mail carrier that the trail to Aldina was unfit to travel with loads, the recent heavy rains having rendered it damost impassible, even [or a light rig. We, therefore, followed the Green Lake trail as far as Mistowasis, where we arrived on May 2, after eight days of very hard work for each member of the party. On May 3, I explored westerly for a passage through the valley of Snake Plain creek, but it was so we verywhere, and the water in the creek so high, that we were obliged to seek another way to the Aldina trail. After travelling a few miles in a southerly direction, we found drive country extending westerly; the next day we creased the Aldina trail, which we followed for five miles in a northerly direction, and camped near Mr. Crowe's farm.

After getting all the information I desired as to the nature of the country we had to travel through to reach the initial point of my work. I was asked to complete the meridian between ranges six and seven, about seven and three-quarters miles in length, by the settlers who were living in the vicinity of the Mistowsis Indian reserve and were making improvements without knowing exactly if they were working on the reserve or not. Seeing that this line would pass mostly through open country, and that the survey of it would be to the intersect of the department as well as the settlers. I ran the meridian to the intersection of the north boundary of Pet-ty-quaw-ky Indian reserve.

On May 21 we moved camp in the direction of the 13th base line to survey the meridian outlines of the Doukhobor reserve. The base line in range 7 is very indistinct; the greater part of it runs through a burnt country with many swamps and lakes. It was, therefore, several days before I could locate it by means of a flying

1-2 EDWARD VII., A. 1902

traverse, which I tied to the southeast corner of township 45, range 7. I may say that this work was done under the most unfravarrable circumstances, both as regards weather and country. From May 7 to September 8, 124 days in all, we worked 77 days, made 22 moves, covering about 110 miles, in hushy country, and cut about 100 miles of trail. During this period we had 47 days of rain. It will thus be seen that the season in this part of the country was very wet, and, therefore, greatly delayed the work.

Description of Meridians.

Township 45, range 7. From the northesst corner of section 13, going south, the country is rolling and undulating, and broken by tamarack swamps. The timber consists of jack pine and poplar, from six to twelve inches in diameter. There are two lakes on this meridian, one in section 12, and the other in section 1. Sanke Plain creek flows through the township in an easterly direction. A wagon trail to Mistowasie crosses the south half of section 13. The soil may be rated as second class.

Township 47, range 7. The east boundary of this township is very much broken by large lakes ; the most important is Lake Royal, which is about three miles and a half long and one mile wide. The water is fresh and contains fine jackfish. The trail to Aldina crosses the meridian about ten chains south of the lake. Sections 13 and 12 are ent off by a large alkali lake. Pet-ty-quaw-ky Indian reserve is intersected on the south half of section 12. This township is rolling and undulating, with secttered bluffs of poplar and spruce, and some hay marshes and sloughs. The soil may be rated first and second class.

Township 45, range 5. This township is very much broken and is hilly, and is heavily timbered with pophar, birch and some spruce. There are many hay marshes and sloughs. Irrequois lake and Lake Carpenter occupy nearly the whole of the six sections of this township. The water in these lakes is fresh, and a great quantity of large pike and jackfish are ought yearly by the Indians. A large creek, 15 to 25 links wide, crosses the north part of the township, and flows into Irrequois lake on the north side. Snake Plain creek is the outlet of the lake, and crosses the moridian near the northese correr of section 13. The soil may be rated second class.

Township 47, range 8. This township is rough and rolling, and heavily timbered with poplar, white birch and spruce, suitable for building purposes. Lakes and hay sloughs are numerous. The tier of quarter sections adjoining the correction line is more open, and scattered with serub. The east boundary of the township runs through a rolling country, with scattered bluffs of small poplar and willows. The soil may be rated first and second class.

Township 45, range 9. This township is rolling and broken country, and heavily timbered with black and white poplar; white birch and spruce of good size are found in bluffs. There are a few large lakes near the south and west boundaries. A creck of good size flows from west to east through the township and crosses the meridian near the centre of section 13. There are also numerous hay marshes and small lakes. The hay in the sloughs is of the best quality, being all blue joint and red top. The soil is good, and may be rated first class.

Township 47, range 9. This township is very much of the same nature as the one to the north of it, being well timbered with good-sized poptr, white birch and spruce suitable for building and fencing purposes. The heavy bush seems to end in the centre of section 12 on the east side, and the north houndary of section 7 on the west side. The southern portion of the township is undulating with scattered willow scrub. There is a large lake in the centre of the south boundary of the township known as Little Sandy lake. There are also smaller lakes and many hay sloughs scattered here and there. The soil is generally good, and ranks first and second class.

Township 48, range 10. This township is thickly wooded with large poplar and heavy undergrowth ; there is some good-sized spruce and tamarack in the large mus-

kegs suitable for building purposes. The surface is rolling and much broken by ravines. It is well watered by many creeks and small lakes. Along the west boundary there are large burnt tamarace musikegs, nearly open. The subsoil is not so deep as it is in the other townships, and in many places is very stony. The soil may be rated as second and third class.

Township 47, range 10. The northeast half of this township is timbered with black and white poplar and some white birch. The southwest half is open and rolling, with seattered bluffs of low serub. Large hay marshes and small lakes are numerous. Two old cart trails pass through the township and join the Aldina trail. The soil rates first class.

Township 48, range 11. This township is similar to those on the east situated in the Thickwood hills. It is well timbered with poplar and some birch. Large tamarack muskegs and numerous sloughts are net with. The country becomes more level as we approach the south boundary ; the bush is not so dense and if smaller diameter. The soil is generally first class, being black hom with clay subsoil.

Township 47, range 11. This township is nearly all open rolling country, interspersed with small bluffs of young poplar and scrub. Hay markes, lables and sloughs are numerous. A wagon trail from Meeting lake is crossed in the stuthenst of section 13 ; it joins the Duck lake trail about tou miles in a southeasterly direction. The soil may be rated first and second class.

Whilst the moridian exterior of township 47, range 5, was being mounded, I ran the north boundary of township 46, range 7, which was necessary to complete the survey of the township. This line is about two and three-quarter miles long, and closes on the west boundary of Petty-quant-ky Indian reserve. At the end of every meridian outline the jog was surveyed and properly canneed with the meridians run north from the 12th base line.

On September 7, having completed the survey covered by the first part of my instructions, I put the party in charge of my assistant to make the necessary requirs to wagons, harness, &c., before starting for the 16th base line west of the 4th meridian, and I proceeded to Duck lake to parchase supplies and feqd for the horse. In compliance with my instructions, which were confirmed by your letter of July 26, I proceeded to Onion lake, where I intended to establish my lendquarks. I arrived there on September 25, having been greatly delayed by heavy rains and subwaterns. After getting the necessary information as to the best means of reaching the 16th base line, and being satisfied that the time allowed me to go there and return to Prince Albert would not enable me to do work of any evented authority from you to return by way of Prince Albert, and to examine two contras urveys.

On the 27th we started from Onion lake, and on October 5 pitched our eamp near the north boundary of township 46, range 10, where I began the examination of one of the contracts. The examination of the two eintracts occupied six days ; the result was communicated to you in a separate report, accompanied by sketches.

We reached Prince Albert on October 14, and on the following day the party was discharged. In accordance with your telegram of October 13. I sold the outfit and horses by auction on the 18th. The proceeds of the sale were very satisfactory.

I left Prince Albert on the 20th, and arrived in Ottawa on October 25.

I have the honour to be, sir,

Your obedient servant.

J A. BELLEAU. D.L.S.

iii

APPENDIX No. 14 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF LOUIS E. FONTAINE, D.L.S.

SURVEYS NORTH OF ONION LAKE, SASKATCHEWAN.

LEVIS, January 22, 1901.

E. DEVILLE, Esq., Surveyor General.

Ottawa.

Sum,--I have the honour to submit to you the following report on the survey of part of the fourth meridian, and certain block outlines west of the meridian, all of which was made in conformity with your instructions, dated March 14 last.

On receipt of the instructions, I reported at your office in order to obtain the necessary data, in connection with the work I was called upon to perform, and after due preparation, I left Ottawa for Edmonton on April 5, in company with Mr. A. Michaud, P.L.S., who was appointed as my assistant. On the evening of the 12th, I arrived at Edmonton where I stopped for a fortnight to engage men, purchase supplies and complete my outfit. On the 97th, I left Edmonton for Onion lake, following the south shore road of the Saskatchewan river. The recent heavy rains had rendered the trail so soft that the wagons were often mired and we were frequently obliged to double the teams on load. The streams were carrying water with full banks. The floods had in two places carried off the bridges, necessitating the building of rafts so as to enable us to continue our journey. With these difficulties to contend against, the progress was slow and delayed us somewhat in reaching the starting point of the summer's operations.

On my arrival at Onion lake, I immediately set to work training the chainmen and mounders as to their duties, and ran trial lines from the Indian reserve corner post in order to locate the fourth meridian. On the conclusion of these preliminaries, I proceeded as follows with the operations :--

I reopened, reposted and remounded that portion of the fourth meridian lying between the 15th correction and the 15th base lines.

Starting from the 15th base line, I produced the fourth meridian northerly, a distance of thirty-eight and a half miles to the shores of Cold lake in section 13, township 63. As the lake is too wide to admit of the meridian being produced across it, I decided to open certain township outlines around it, and in this way reach the 17th base line. Proceeding thus, the lines surveyed were as follows :--The south boundary of township 63, ranges 1 and 2; the cast boundary of township 63, range 3; to the intersection of the shores of Cold lake; the east boundary of township 63, range 3; the north boundary of township 63, range 2 to the shores of Cold lake; the act source of Cold lake; and the east boundary of township 64, range 3, to the 17th base line.

From the north-east corner of township 64, range 3, west of the fourth meridian, I surveyed the base line easterly across the north boundary of township 64, range 2, as far as the shores of Cold lake, and westerly across ranges 3 and 4. I then surveyed the east boundary of townships 63 and 64, range 5, to the 10th correction line.

In accordance with subsequent instructions received, I stopped work at the 16th correction line and started for Edmonton, where I arrived on October 16. I paid off my men, settled the survey accounts and made arrangements for the storage of my cufit, and then continued my journey home, where I arrived on November 5.

Having given a brief account of the season's work, I will now endeavour to give a description of the country covered by the survey.

Fourth Meridian.

Township 55. The first four miles of the east boundary of this township crosses a rolling country, more or less covered with willow scrub together with scattered bluffs of second growth poplar interspersed with clumps of spruce. The remainder of the boundary is heavily timbered with poplar, birch and spruce. The soil is second and third class.

Townships 56, 57, 58, 59, 60 and 61. The country crossed by the east boundary of these townships is generally rolling and densely timbered with spruce, poplar, zypress and tamarack of small diameter and thick underbrush. There are numerous lakes, swamps and marshes of various sizes on the line. Beaver river, flowing eastward, is intersected on the south-east quarter of section 13, township 61. This stream is two chains wide, six feet deep, with a current of two and one-half to three miles an hour. Its general direction is wetr, north-west. The soil on this boundary is third class.

Township 62. The east boundary of this township for a distance of two miles crosses a rolling burnt country covered with a second growth of poplar and willows, then for three miles it passes a series of swamps and floating bogs extending a distance of about four miles on each side of the line as witnessed at a bird's-eye view from an adjacent height. The remainder of the line crosses the south side of the height which surrounds Cold lake.

Township 63. The part of the east boundary of this township that was surveyed comprises sections 1, 12 and the half of 13. The surface is a gradual slope towards Cold lake. The timber is heavy, poplar and spruce of twenty-six inches in diameter are in large quantities. The soil is third class. The shores of Cold lake are intersected in the north-east half of section 13. It is the largest body of water in this region, its dimensions being about twenty miles long by eight miles wide; it has numerous bays and is surrounded at a distance of two miles from its shores by heights of about 200 feet which slope gradually to the water. Two chains from the shore line the water is two feet in depth.

The above description, it must be understood, only applies to the country in the immediate neighbourhood of the survey operations; it would be quite different in some other parts, especially five or six miles west of the line, where good agricultural land is to be found.

16th Correction Line.

Township 65, range 1. Running westward across range 1, the south boundary of this township crosses the westerp heights surrounding COI lake for a distance of one mile, and then enters an undulating country covered with windfalls of burnt timber and a second growth of popular and willow scrub up to section 6, which is partly open prairie with scattered islets of poplar. The soil is second and third class, except on section 6 where it is a rich loam fifteen inches in derth on a clar subsoil.

Range 2. The line across this range runs for a distance of one mile through islets of poplar; it then crosses an undulating burnt country covered with windfalls of burnt timber and a second growth of poplar and cypres. On the east half of section 1, the trail from Cold lake to 'Mission de St. Raphael du lac Froid' is intersected. The soil is third class, except on section 1 where it is of a superior quality.

Meridian Extensions.

Township 63, range 2. The east boundary of this township comprises sections 1 12, 13, and a part of section 24 as far as the shore line of Cold lake. It crosses a rolling and partly open area in section 1; the remainder of the line runs over a broken surface which has been visited by far, and is now covered with a second growth of poplar and willow scrub. The trail from Cold lake to 'Mission de St. Raphael du lac Fridd'is intersected on sections 1 and 24. The soil is second and third class.

1-2 EDWARD VH., A. 1902

Township 63, range 3. Running northerly the first two miles of the east boundary of this range crosses an undulating country covered with cypress, the line then enters swampy lands extending about three miles, after which it passes through islets of poplar interspersed with small patches of prairie covered with scrub. Bear river crosses the north half of section 1 in a westerly direction. It is seventy-five links wide and three feet deep, with a slow current. The hand is third and fourth class.

* Township 64, range 3. This meridian passes over a rolling and burnt country covered with windfalls of burnt timber and a second growth of poplar mixed with willow scrub. Bear river crosses the north half of section 1 in an easterly direction. The soil is third class.

Township 64, range 5. Running southerly, the east boundary of this range in the first three and one-haff miles crosses a rolling country covered with poplar, birch, spruce and cypress ; it then traverses a lake one mile in width after which it runs over a small ridge to a scrubby swamp one mile long and entirely unif for anything. Jackfah river crosses the north half of section 36 in a south-westerly direction. The soil is third class.

Township 63, range 5. This meridian crosses a rolling and burnt country covered with a second growth of poplar and willow scrub. On section 24, the line traverses a lake half a mile in width and extending on each side of the meridian a distance of about three and one-half miles. Beaver river crosses the south half of section 1 in an eastery direction. The land is third class.

Parallel.

Township 63, range 2. Running east across this range, the north boundary of the township crosses a gently rolling burnt country overgrown with scrub and second growth of poplar. Bear river crosses the west half of section 32 in a southerly direction. The shores of Cold lake are intersected on the west half of section 35. The soil is second and third class.

17th Base Line.

Range 2. Running eastward across part of range 2, the 17th base passes over a rolling burnt surface covered with a second growth of pophar and scrub. The shore line of Cold lake intersects the base on the east half of section 34. The soil is second and third class.

Ranges 3 and 4. Running westward across these ranges the base line passes over a rolling country covered with poplar, birch and spruce. Lakes are crossed on section 31, range 3, and on sections 35 and 36, range 4. Jackfish river crosses the line on the west half of section 32, range 4, in a southerly direction ; it is fifty links wide and three feet deep. The land is third class.

General Remarks.

The waters of the numerous lakes and streams in this locality are of a greenish tint, clear, soft and pleasant to the taster. They are well stocked with whitefish and pike, and are also the abode of flocks of ducks, gulls, and wild greese.

The swamp lands are mostly floating bogs, and in some cases cover an extended area.

In the course of my season's work, covering a large area of bush land, the only timber I found worth mentioning is a strip on the heights adjacent to the south shore of Cold lake. Some good sprace may be obtained in different places, but in my opinion, not in sufficient quantify to warrant being reserved as timber berths. Eight miles in a southerly direction from the southeast corner of township 63, range 9, the nucleus of what may become an important settlement is to be found; it is

called 'Mission de St. Raphael du lac Froid.' There is a Roman Catholic church, a school house, and several other buildings owned by Chippewyan Indians. This locality, I understand, is well situated, and adapted for ranching and agricultural purposes.

Three fairly good trails converge at this point; the first from Onion lake via Frog lake, the second from St. Paul de Metis, and the third crosses Beaver river and follows the south and west shores of Cold lake as far as Bear lake pack trail.

Several difficulties had to be contended with in carrying on the surveys, owing to the wooled nature of the country. If had to dispense with wagons and use pack horses; the excess of water on account of the prevailing heavy rains throughout the season, filled every depression of the ground, and all hands were frequently obliged to be in the water, waist deep, from morning until night; the softness of the ground in some places prevented us from keeping the camp outfut up to the work; and the mosquitos, black files and myriads of other inacets, rendered it very unpleasant for man and beast.

Notwithstanding these difficulties, I may state that during the season one hundred and ten miles of outlines were surveyed, twelve miles of which consisted of reopening, reposting and remounding marks of a previous survey.

I have the honour to be, sir,

Your obedient servant,

LOUIS E. FONTAINE, D.L.S.

APPENDIX No. 15 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF W. F. O'HARA, D.L.S.

SURVEYS IN NORTHERN ALBERTA.

CHATHAM, Ont., January 11, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa.

Sim,—In pursuance with your instructions, dated March 13 last, to survey certain meridian outlines west of the fifth meridian, I proceeded to Calgary, where I organized my party and purchased my outfit and supplies. From thenee I proceeded to the northeast correr of township 41, range 2, west of the said meridian, where I commenced my survey. I surveyed the following township outlines in the order given :—

	East boundary	of township	42,	range 2.			
	44		41	and	42,	range	3
	44	44	44	66	43	44	2
4	44	44	44	66	43	44	3
	64	"	44	66	43	44	4
	64	"	44	66	43	44	5
	66	"	41	66	42	44	4
	44	"	40	66	39	44	4
	66	66	40	66	39	66	5
	44	"	38			44	4
	44	44	40			44	6

The work was carefully performed, and strictly in accordance with the provisions of the manual of survey. The plans and field notes will show the topography and timber of the country. Generally speaking, the country is rolling and hilly, with the exception of the Blindman and Medicine river valleys, which afford the best land for agricultural pursuits. The timber consists chiefly of poplar, but pine, spruce and tamarae are found in limited quantities in isolated positions where protection is afforded from prairie and forest fires.

The soil is exceedingly rich and fertile, being composed principally of black and clay loam, with a clay subsoil. In a few localities peat is present, the depth of which could not be ascertained from the pits which mark the survey, they being only eighteen inches deep. Sandy loam was also found occasionally throughout the work.

The elimate is very changeable, and at present unfit for the production of ccreals. The country was visited by snow and frosts every month in the year, with the exception of the month of July. However, I am inclined to believe a change will occur with the opening of the country. After a few hundred thousand acres are broken and exposed to the surv's rays, the ground will absorb infinitely more heat than it does in its present condition. This will be due to its being intensely black and also to the rariy of the atmosphere at these altitudes, which vary from 2,400 to 2,600

feet above the sea level. Rain or hail fell in very large quantities during the course of the summer, having fallen in all about 100 days. The range of the thermometer was from 300 to 75^3 during the summer months.

The country is very wet, but can be easily drained, as the fall in variou directions is considerable; this is indicated by the rapid currents of the numerous streams. The best mode of procedure towards development would be to anlaye the natural water courses and excavate lateral drains along the road allowances and grade the excavated earth thereon.

The region is well adapted for mixed farming and stock raising. The only difficulty with eattle would be, their having to contend with myriads of black flies, horse flies and mosquitos.

The streams afford a great many excellent mill sites, which can be chosen by any one wishing to engage in the milling business. In conclusion, I might say this part of Alberta is difficult to surpass anywhere in the North-west, notwithstanding the difficulties and hardships that at present confront the early settler.

I have the honour to be, sir,

Your obedient servant,

W. F. O'HARA, D.L.S.

APPENDIX No. 16 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF J. E. WOODS, D.L.S.

SURVEYS IN SOUTHERN ALBERTA.

OTTAWA, March 27, 1901.

E. Deville, Esq., Surveyor General, Ottawa.

SIR,-I have the honour to submit to you the following report on my operations during the season of 1900.

I left Ottawa for Calgary on April 7 for the purpose of making the surveys required in southern Alberta. Before organizing my party for the season, I went to township 27, range 20, west of the fourth meridian, with three men, to survey a homestead on the Rosebud river. The valley of the river contains a few flast from fire to fifteen chains wide, flanked on each side by high banks sloping back over a mile ; they are out up by a network of deep ravines with almost perpendicular sides. There is little to attract settlers in this district, and as a consequence, it is sparsely settled. The elimate scema rather dry for the cultivation of cereals, and hay land is scaree for ranching purposes. However, the pasture is abundant and of fine quality ; there is also splendid helter for stock against the winter storms.

I returned to Calgary on the 20th, after a drive of one hundred and forty miles, and at one organized my party, purchased supplies and a prepared my outift for the senson's work. I did not leave for the south till the 27th, being delayed by two days of heavy rain; the roads were soft and muddy, and were not improved by a fall of three inches of wet snow the first day out. Two days later, the mud had dried up and we made good progress. On May 5, I reached the second base line, where I commenced the season's operations, having come two hundred miles from Calgary.

I surveyed the township outlines forming the cast boundary of townships 2 and 3, ranges 19, 18, 17 and 16, west of the fourth meridian : the country embrased within the outlines is a high rolling prairie lying to the north-east of Milk river ridge. The soit is generally a sandy loam with edga valueoil, very atomy in spots, and is dry and hard, indicating a small rainfall. This district will not be suitable for farming until irrigated. It is, however, one of the best ranching districts in the west. As all the townships I outlined have since been subdivided, a detailed description of the country will be found in the subdivide's report.

On May 28, I commenced the subdivision of township 3, range 23, eighty-five miles from where I completed the township outlines. This township is in the Milk river ridge; it is rough and hilly with long sloping ridges and valleys. It is well watered by several brooks fed by numerous springs. Judging from the heavy growth of grass, and the quantity of water in the brooks, there is sufficient rainfall for agricultural purposes. The soil is a rich black loam over eighteen inches deep in places, with a subsoil of loose clay. It is well adapted for mixed farming; it he valleys contain sufficient level land for cultivation, whilst the ridges afford splendid grazing, and there is good shelter for stock.

Township 1, range 23, which I next subdivided, is for the greater part situated in the Milk river ridge. It is a high, hilly prairie, broken by deep ravines and large valleys; the north-west part is situated at the foot of the ridge, and contains several

sections of good land alrendy taken up by settlers. The Milk river, a swift atream of good spring water and half a chain wide, runs through the south-east part in a deep valley from which the ground rises rapidly to the north-west and to the south-east The south-east corner of the township is at an altitude of 4,065 foet above sea level, and 435 feet above the river. Most of the river bottom could be irrigated at small expense by diverting the river. With the exception of a few sections on the west side, the township is only fit for graving purposes.

Township 1, range 22, is also high, rolling prairie, intersected by several valleys with long, sloping banks. The soil is a sandy loam with clay subsoil, very stony in places, and although it is very dry, it is covered with a heavy growth of bunch grass. The Milk river runs through sections 20, 29, 33 and 36; the valley is a flat from ten to fifteen chains wide, which can easily be trigated.

My next work was in township 1, range 28, fifty-five miles farther. I only auveyed section 36 to accommodate two settlers who had located here. The remainder of the township seems unfit for immediate settlement.

Another move of twenty-five miles brought me to township 3, range 29, where I subdivided fifteen sections along the east and north boundaries, and which comprises about all the land fit for settlement. The eastern part is rolling prairie with patches of scrub ; it lies along the western slope of the valley of Waterton river.

The northern part is undulating prairie with patches of scrub, which become denser and denser towards the southwest. The for settlers located here follow ranching for a livelihood; some cultivation has been successfully conducted in the valley of the river.

A further drive of forty miles brought me to township 6, range 2, west of the fifth meridian, where I completed the traverse of Old-man river and ran the east boundary of section 23. On August 6, I reached township 6, range 3, fifteen miles farther, where I commenced extending the section lines through Crow Nest pass.

The departure of four men, who were unable to cut the heavy timber on the lines, left my party badly crippled. As it would have been a loss of time to attempt to run lines with the remainder of the party, I instructed my assistant to make a traverse of the Crow Nest river, whilst I went to Banff with one man to traverse a part of the Vermillion lakes and Forty-mile creek. It rained most of the time I was there, and I had not completed the survey when I was obliged to return to the Crow Nest pass as any assistant had secured men to complete the party.

The roughness of the country rendered it impossible to extend the subdivision by the usual method. I, therefore, surveyed the section and quartersection lines wherever practicable along the valley of the Crow Nest river, and connected the lines with one another as far as the continental divide. Where it was impossible to run a straight line, I established the position of section corners by a traverse. All the lines were checked by a traverse of the railway, calculated by latitudes and departures.

I extended the traverse of the Crow Nest river from section 10, township 7, range 3, to the east boundary of section 4, township 8, range 4; the time at my disposal din tot allow me to continue the traverse any farther.

In township 7, range 3, the valley is wide and rises to the north and south in broken slopes and benches, timbered with spruce and fir on the south side, and with patches of willows and blaffs of poplar on the north side. On section 30, township 7, range 4, the bases of Bluff and Turtle mountains come within a few chains of each other, and for a quarter of a mile the pass is not over five chains wide; it then widens out, and for six or seven miles forms a valley consisting of benches rising gradually one above the other up to the mountains. The southern slopes are all timbered with pine, far and spruce. The northern slopes are parine; with roves of 0 have fit trees and small bluffs of poplar, giving the country the appearance of a park. On the west side of section 7, township 5, range 4, the pass is again almost closed by two mountains, each sending out high spurs that come within two chains of one another. In range 5, the pass widens out again as far as Crow Neet lake, and thes

1-2 EDWARD VII., A. 1902

the same appearance as in range 4. The lake extends across sections 8 and 9, between two high mountains rising from the water's edge with almost perpendicular walls.

A comparatively level piece of ground half a mile wide, well timbered with large spruce and fir, extends between Crow Nest lake and Goose lake. At the western end of Goose lake the pass turns suddenly to the north, and a quarter of a mile farther, at an altitude of 4,295 feet above sea level, is the continental divide forming the boundary between the district of Alberta on the east, and the province of British Columbia on the west.

Large deposits of coal have recently been discovered in the pass, and several parties have begun developing operations. The prospects of this district becoming an important coal mining region are very promising.

A good wagon trail follows the valley of the river through the pass as far as the lake, where it turns north, and passing around a high mountain, crosses into British Columbia by a pass 1,000 feet higher than the lake.

A large saw mill on section 3, township 8, range 4, supplies all the lumber required by the settlers.

The Crow Nest Branch of the Canadian Pacific Railway, constructed through the pass a few years ago, is an indispensable factor in the development of the resources of the country.

I was much annoyed and delayed whilst making the survey through the pass by men getting intoxicated; i liquor was easily obtained along the railway, and men were independent, as work was plentiful elsewhere. I was thus unable to survey the lines required to locate the lands of the British American Coal Company.

On September 28 I left the summit to inspect contract No. 6 along the Alberta Railway, i for the next seven days it snowed almost continually, and at one time there was over two feet of snow on the ground, so that travelling with wagons was impracticable. On September 8, the snow had sufficiently disappeared to allow us to proceed. On the 13th, after a drive of 150 miles, I reached the second base line and commenced the inspection of several townships. On, the 20th, I left for Lethbridge, passing by McCarty's ranch, where I made arrangements for storing the outfit and wintering the horses. On this last drive we covered 75 miles.

During the season I travelled 750 miles between the different parts of my work. As I had good horses, sufficient transport and good roads. I spent comparatively only a short time travelling.

I have the honour to be, sir,

Your obedient servant,

J. E. WOODS, D.L.S.

APPENDIX No. 17 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF ALBERT C. TALBOT, D.L.S.

SURVEYS IN NORTHERN ALBERTA.

OTTAWA, February 12, 1901.

F. Deville, Esq., Surveyor General, Ottawa,

Sin,--I have the honour to submit the following report of my field operations during the past season, in the northern part of Alberta.

In pursuance of your instructions, dated March 28, I left Ottawa on April 10 and arrived at Edmonton on the evening of the 16th, having in the meantime been delayed a short time at Calgary on business.

I was unable to procure any labourers at Edmonton within the week after my arrival, as several parties going north were being organized, and in order to secure a sufficient number of men high wages were offered. I drove to St. Albert on the 18th, and made an unsuccessful effort to buy horses and hire men there. The following day I went to Wataskiwin by train and succeeded in hiring two men, whom I sent to Bittern lake to bring my transport outfit and eamp equipage to Edmonton.

On the 23rd, I left for Fort Saskatchewan to make the survey of part of the mounted police reserve, as required by your instructions; upon the completion of this work. I returned to Edmonton on Saturday, the 28th, having been delayed for two days by heavy rains.

Between April 30 and May 3, I engaged the necessary labourers, bought two horses and completed my equipment, and on the 4th I left for the field of my operations. The roads were in an unusually bad condition, owing to the exceptionally wet season of 1899 and the heavy snow fall of the succeeding winter. We travelled thirteen miles only the first day, and it was a very heavy day's work for both men and horses ; we were obliged in many places to double the teams on each wagon, and three or four times had to unload, though I had taken the precaution to hire an extra wagon and team in order to lighten the loads. The second day, we travelled on higher ground, where the roads were in much better condition, and we covered about 21 miles with less trouble than we experienced the previous day. We camped at night on the west side of township 52, range 1, west of the fifth meridian, and I decided to begin work in township 52, range 2, before moving camp any farther. We spent Monday, May 7, searching without success for the outlines of the township; the country having been partly burnt and the lines overgrown with brush, and the posts either rotted or burnt, it was impossible to locate any of the marks of the errners. The next day, I secured the services of one of the settlers to show me where the east outline crossed the Edmonton trail, and started work from this point.

As it was impossible to travel through township 52, range 2, even with pack horses. I surveyed the south half only from our campon the Edmonton trail and left the remainder of the township to be surveyed in the fall. On June 18, I moved eamp to Wahamun creek in township 50, range 3, and surveyed that partials of the township south of the Indian reserve, also re-established the south parallel, and reopened and re-marked the meridian exteriors. On July 5, I moved camp across the Indian reserve to township 53, range 3, and completed the subdivision of the township, five sections having been previously surveyed. As it was now August 11, I thought it was too late in the season to begin work in a township farther west, especially as there was no immediate necessity for surveys in that direction, and, therefore, decided to take my camp to the north part of township 52, range 2, and complete the subdivision of this township.

In order to reach the work, I had to go around by the Edmonton trail as far as, the centre of range 1, and from there westerly, thus covering a distance of thirty miles which necessitated three days of hard traveling, because of the bad condition of the trails and heavy rain during one of the days. From August 16 to Soptember 8, I was engaged completing the subdivision of this township, having been much delayed by stormy weather and a fall of snow on August 26.

On September 10, I moved camp to township 53, range 1, as I had been told some farmers had squatted there; I found that three or four had made some improvements in sections 4, 6 and 8. From September 11 to October 6, I surveyed only twenty miles in this township, having been much delayed by stormy weather ; there was a fall of sixteen inches of snow on September 24, followed by more snow during the early days of October. I storped work for the season in this township.

Most of the country I had instructions to survey is covered with bush, or brule, with a second growth and the dead timber standing in places. There are small open tracts, but these are not large enough to be of much advantage for immediate settlement.

Description of Townships.

Township 52, range 2. The soil in this township is second class, being light and sandy, accept in a few sections on the south and vest sides of the township, where it is a clay learn or a black learn on a clay subsoil. Up to a few years ago, nearly the whole township was covered with a dense growth of poplar, cotourwood, birch, gray willows, and clumps of spruce trees. Fires have since overrun upwards of one-half of the township ; as most of the dead timber remains standing and the burnt area is covered with a second growth of young poplar and willows, the land is, therefore, not suitable for immediate settlement. The timber which has secaped the fire is generally sound, good size, and suitable for building purposes. The country is hilly and cut by numerous lakes, swamps, and chains of small hay marshes. On sections 6 and 24, there are small purpice yeardness where squatters have made some improvements.

Township 52, range 3. Only two tiers of sections were surveyed on the south side of this township, as the remainder of the township forms part of 'Alaxis Story Indian Reserve.' The soil is second class, being a clay loam mixed with sand in many places. The country is generally very hilly, but from the east line of the township to Wabamun creek, which crosses the subdivided area near the centre of the range, it is open parife, with service and scattered buffs of green poplar. West of the creek it is brule and green brush, with intervening belts of mixed green poplar, cottonwood, bird and spruce. The best of the spruce timber has been cut for the Edmonton market. Whilst I was in the township, six or seven farmers began making improvements on sections 2, 3 and 12. The Edmonton trail crosses the southeast corner of the township, and a trail to Wabamun lake and Lake St. Ann branches from it in section 2.

Township 53, range 1. Sections 5 and 6, and part of sections 4, 7 and 8, have of late years been overrup by fires and, except for a few prairie openaings, are now covered with poplar brush and willow scrub. The remainder of the surveyed portion is covered with a dense growth of poplar, cottonwood, birch, gray willows and spruce, with heavy underbrush. Timber of good size may be obtained in sufficient quantities for building purposes, and in many places there are belts of young timber suitable for fence rails. The country is in general very hilly, and the soil is second

elass, being a good sandy loam, except near the southwest corner of the township, where it is light sand.

Township 53, range 3. The south half of this township is rolling and hilly, and the soil is second class. Rather more than a half of this portion of the township has within recent years been overrun by fires, leaving belts of green timber. The burnt portion is now partly covered with green popular broads and secub. On the south and west sides of the township there are a few prairie openings, and the country is generally more open. The north part of the township is low and wet, and mostly covered with swamps, muskegs and floating bogs, but near the north boundary the ground is higher, and a belt of green poplar, cottonwood and spruee runs aeross sections 33, 43, 53 and 30. The soil in this portion is either third or fourth elass. Some quarter-sections sufficiently open for immediate settlement may be obtained on the west side of the township and along a creck running in a south-ensetry direction from section 17 to section 2. The wagon trail from Lake 8t. Ann to the Indian reserve in township 52, range 3, crosses the southwast corner of the township.

During the senson I surveyed 118 miles of new lines, re-established 10 miles, and roopened and re-marked 22 miles, making in all 130 miles. The senson was an exectionally wet one; between the time of our departure from Edmonton and our return there were twurty-five week days on which we had rain or snow, and in consequence of this the work was much retarded. In addition to the loss of time eaused by bad weather, fourteen days and a half were oscupied in travelling and moving camp, so that after deducting Sundays and holidays there only remained minery-five days actually spent on the survey, of which twenty-four were showery. Owing to the thick bush and heavy underbush, it was very tedious work opening the lines near some of the lakes and aeross the many swamps, in which the men were obliged to work in water from three to twenty inches deep. Very often some of my men were laid up with coughs, colds or fever, contracted through having to work so much in water, and because of the frequent cold showers on very warm days. It was difficult to secure good axemen, especially during harvest time, as the farmers were offering good laboures \$40 to \$45 per month.

On October 8, we left for Edmonton, where we arrived after two days of very hard travelling over a distance of thirty miles, the roads being in even worse condition than in the spring. On the Joth, I paid off all the labourcrs but two; these were required to take eare of the horses and to assist in packing the transport and eamp outfit. On the 12th, I delivered the horses and transport outfit to Mr. Carruthers, and diseharged the remaining two labourers.

I left Edmonton for Ottawa on October 13, and reported at your office on the 21st, having taken a vacation of three days on my way home.

I have the honour to be, sir,

Your obedient servant,

ALBERT CHAS. TALBOT, D.L.S.

APPENDIX No. 18 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF J. K. McLEAN, D.L.S.

SURVEYS IN NORTHERN ALBERTA.

ELORA, ONT., March 22, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa.

My work consisted of a resurvey of townships 5.7, ranges 22, 23, 24, 25, 26, west of the fourth meridian ; the east boundary of township 5.5, ranges 22 and 32, and I also surveyed part of township 5.5, range 18. I arrived at Edmonton on the evening of April 24. As my outfit was in bid repair, I did not send for my horses nutril May 1, but spent the week in making repairs and new tents. My horses came in on May 2, most of them had been sick with lung fever, and as the roads were very bad, I decided to feed them with hay and oats at Edmonton until the following Monday. I then started for township 57, range 26, the road to range 29 being reported in an almost impassable condition. I reached there the following Wednesday, and commenced operations next day.

Township 57, range 26. This is a fairly good township ; there are some settlors bout Manawan lake and along the southerly part. A German settler on section 6 would not believe that a former survey of the township had been made, and stated that a short time before my arrival, a number of settlers had moved out as they were unable to find the lines or posts. A great portion of the township can be made into good farms. It is likely that an extension of the German settlement from the south will soon take place.

Township 57, range 25. There are a number of settlers in this township. A church has been built, and a post office established in the north-east portion. Nearly the whole of the township, while not first class, will make fairly good land for settlement. The greater part of the timber has been burnt.

Township 57, range 24. The most southerly row of sections and the row along the eart boundary are of poor quality ; the remainder, with few exceptions, are good. There is a large number of settlers in this township, and all seem well satisfied. The timber has generally disappeared, although enough remains for fuel or small buildings.

Township 57, range 23. The trail from Athabasea landing to Edmonton runs through this township. Small areas of good land are found along the trail in sections 2 and 3, and part of sections 10 and 32. The remainder of the township is sandy with swampe. A very large muskeg extends across sections 23, 24, and 25 to 28.

Lostpoint lake is at the south-east corner of the township, but is almost entirely in the townships to the south. There is some good hay around the lake. The timber has nearly all been burnt.

Township 57, range 22. A very small area of this township, near the north-east corner, can be used for farming ; the remainder is very sandy with many marshes and muskegs. The timber has been nearly all burnt ; poplar and willow serub with small rough jack joine is all that is now found.

The east boundary of township 58, range 23, runs through a very poor sand country and large swamps ; the timber is also very poor.

The east boundary of township 58, range 22, also runs through a poor country. Redwater river crosses the south end of this line; it was about fory links wide and ten feet deep at this point last season. Some good hay land extends along this stream, and a small ranch could easily be established without much disturbance from settlers. The timber along this line is poor and partially burnt, but improves somewhat in size at the correction line.

Aftor completing the survey of township 57, range 22, I proceeded to township 58, range 18, by way of the Vietoria trail. The country along the trail is now fairly well settled up to the crossing of the Redwater river. Settlers are also found as soon as the sandy country east of the creek is crossed. The country along the trail for some distance before reaching the Indian reserve also looks well.

Township 58, range 18. A small portion only of this township north of the Lobstick settlement was surveyed. The country, when I was there, was exceedingly wet, so that a fair estimate could not be made. The soil, however, appeared good and if dry, would make good land for farming purposes.

From here I proceeded to Edmonton, arriving there on the morning of October 12, and left on the following day for home.

I have the honour to be, sir

Your obedient servant,

J. K. MCLEAN, D.L.S.

APPENDIX No. 19 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF C. C. DUBERGER, D.L.S.

SURVEYS IN BEAVER HILLS, NORTHERN ALBERTA.

WATERLOO, Que., November 9, 1900.

E. DEVILLE, Esq.,

Surveyor General, Ottawa.

Sue,-I have the honour to submit the following report of my field operations during the past season. In accordance with your instructions, dated April 4 last, I was engaged upon the subdivision of townships and renewal of corners in the Beaver hills.

In order to avoid delay at Edmonton awaiting iron posts, I wrote to the Manitoba Cartage and Warehousing Company, Winnipeg, on April 13, asking them to forward 150 small iron posts and eight large ones.

On the night of April 30, I arrived at Edmonton, and was employed until May 7 purchasing horses and caris, engaging men and getting my survey outfit ready; the following afternoon I went under canvas about two miles and a half east of Edmonton, and awaited the arrival of two members of my party.

I started for the Beaver hills on the 12th, and followed for a few miles a road running cast and two miles south of the 14th base line, after which I travelled two miles north to the highway along the base line. From here the highway runs true east for several miles, after which its general direction is east southeast to Beaver lake. It was opened in 1898 to meet the requirements of the Beaver lake settlement, but as it crosses so many marshes and bogs, it has been abandoned, except as to the western portion. The Beaver lake settlers in going to Edmonton prefer using the old trails around the Beaver hills and passing by Fort Sakatchewan, although longer than the direct but almost impassible highway. However, I followed the highway as far as township 52, range 19, west of the 4th meridian, where I had to leave it in order to reach the 14th base in the same range, at which point I commended work by renewing the markings of the corners. It was May 19 before I reached my destinacing ; the grater number of the soft places had to be paved with bughs, which caused delays of fifteen minutes to four hours, and from the trail to the 14th base the way had to be cleared and a bridze necess Norris orece had to be built.

Surveying in the north-eastern part of the Benver hills is generally very difficult ; owing to marshes, bogs and lakes survenued by thick green bush or half burnt and heavily entangled timber, we were obliged to wake through water to the kness, often to the waist, rather than make our way through the obstacles on dry land. With the exception of the eastern and northeastern parts of townships 53 and 54, range 19, we worked in this class of country until the beginning of September.

As it was impossible to keep the main camp close to the work without great loss of time, and in order to avoid long walks to and from camp. I was obliged to resort to what is termed the packing system. For this purpose sufficient provisions and the absolute necessities for a week were placed on the backs of the horses ; thus equipped they generally left the main camp on Monday morning and returned to it the following Saturday. By this means we were enabled each night to camp close to the work of the survey.

iii.

While renewing corners, my camp was for the greater part of the time on the meridian between ranges 19 and 20. From there I worked across range 19 and slightly more than a half of township 53, range 20, up to Tawayik lake; I then moved camp into township 54, range 20, while working southwards, and afterwards into the western part of township 53, range 20, while working southwards.

In this part of the Beaver hills it is absolutely necessary to open and clean out a road before undertaking to move camp; this entails much work, as the ground is thickly covered with stumps and fallen trees much entangled, and the numerous marshes which have to be gone around very much lengthen the road.

The renewal of cormers in these townships was therefore tedious work, and was further interrupted because of rainy weather; at least on-half of our time was least on account of rain. The original survey of these townships was made about eightene pears aço, at which time the corners were indicated by wooden posts; since then the country has been much dewastated by fires, consequently I could find but a small proportion of the posts.

The following is in table form the number of posts looked for in each township and the number found :--

Township.	Range.	Looked for.	Found.
53	19	81	22
54	19	58	33
53	20	106	51
54	20	41	7

In township 54, range 20, the percentage found is very low, though the search was made in the southern part of the township, where the country seemed less affected by fire. The remaining portion of the township was so burnt over as to leave very little more than the rough prairie, so that I decided to give up further search for posts in this township.

The soil in the above four townships is second and third class, but as there are so many marshes, bogs and lakes the townships are, I think, more suitable for stock raising than agricultural purposes. Still, the eastern part of townships 33 and 54, range 90, and the north-eastern part of the latter township are part, well settled; there are also some settlers' improvements in the western part of township 33. I was told that in township 33 and 54, range 20, quarter-sections were taken up by settless estiblished in the adjoining townships, range 21. A log house and stable were seen on section 7, township 54, range 20.

Except as to township 54, range 20, islands of good size poplar with spruce here and there suitable for building purposes are found; the timber seems to be made use of as several rollways were seen.

On September 7, 1 commenced the subdivision of the northern part of township S2, range 31, west of the fourth meridian, which I had left unfainbed in 1399, and also remeved the corners on the north boundary. This portion of the township is almost completely burnt over and the rough pairie is covered with fallen trees, scrub and young poplar; the south-eastern and south-western portions are covered with half burnt poplar. Three is, however, a quantity of good, dry, sound poplar suitable for building purposes. The surface of the township is rolling and interspersed with halfs and marshes; the soil is second class.

I intended to commence renewing the corners in township 53, range 21, west of the fourth meridian on September 24; but in the ovening of the 22nd rain began to pour and kept pouring abundantly until about 5 o'clock the following evening, when it commenced to snow, and by the night of the 24th twelve incless of mow had fallen. The next two days were wintry days, but during the night of the 26th the snow commenced to mell so pravidy that by the afternoon of the 27th I was able to go to work. but the ground was so soggy that the members of the party had to go through water nearly as cold as ice, and creeks from 15 to 30 inches in depth had to be crossed where none could be seen before the snow storm.

Having instructions to discharge my party on October 15, and seeing that the weather continued inclement and admitted of almost no work being done, I decided to leave for Strathcona on October 5 in order to pay off the members of my party without further delay : I arrived at Strathcona on the 6th, and left for Ottawa on the 17th,

I have the honour to be, sir,

Your obedient servant,

C. C. DUBERGER, D.L.S.

APPENDIX No. 20 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF J. E. ROSS, D.L.S.

SURVEYS IN RAILWAY BELT, KAMLOOPS DISTRICT, BRITISH COLUMBIA.

KAMLOOPS, B.C., December 17, 1900.

E. DEVILLE, Esq., Surveyor General,

Ottawa.

Sta,--I have the honour to submit the following report on my survey operations during the past season in the Kamloops district of the railway belt in British Columbia.

At the date of last season's report I was engaged on the survey of the bolm care the Spallumeheen river. Owing to the unfavorable weather, the impassable state of the roads for hauling or packing supplies and the roughness of the country through which the boundary line passes, I found it would be almost impracticable to continue the survey through the winter. But, as the immediate object of the survey trough the distribution of the survey through the bulk of the parsing a traverse line along the lumber trail to Mabel lake; this I succeeded in doing in a comparatively short time. On finishing here, I elosed field operations and returned to Kamboors.

On April 17, after receiving instructions from you, I left Kamloops with two men for township 17, range 17, west of the 6th meridian, where I was engaged for a few days in making a traverse of part of Trapp lake.

On May 3, upon the receipt of further instructions from you, 1 went to Hat creek, where I made a partial subdivision of townships 19, 20 and 21, in ranges 20 and 27, west of the 6th meridian. The land surveyed in these townships lies chiefly in the Hat creek valley. For a mile or two on each side of the creek the country is rolling and open, with considerable bench land, but the surface is so uneven and hummocky that but little of the land can be cultivated. Along the creek there are small patches of meadow and bottom land. The soil is alkaline in places. The country is well watered with numerous small streams, but the climate is s. dry that irrigation has to be resorted to on the high lands; it is so cold that vectables cannot be grown with much success; potators, however, do fairly well. Neakmising is essentially the industry of the valley, but the small amount of hay land will prevent it reaching great proportions. The settlement in the valley is small and seattered. The lands taken up lie chiefly along the creeks. There are a few quarter sections satisble for settlement y et upnocencied.

From here I went to the Benaparte river, into which the Ilat creek flows, and surreged some lots along the river and the Caribo road. Most of the land had been surreged into provincial lots, some of which were taken up during the Cariboo gold excitement in 1862. The character of the country and climatic conditions are somewhat similar to those of Hat creek valley, but the land is much lower and consequently the summer frosts do much less damage. The bottom land is of small area, and partly overflowed during high water in the Bonaparte. The bench land needs to be irrigated to ensure good cross. The settlers here are favoured with a good road to market, and subendid mail accommodations.

1-2 EDWARD VII., A 1902

One of the main objects of these surveys in British Columbia is to define the limits of the railway belt in as many places as possible. On the last two surveys I marked out the boundary in three places, vize, Lillooet road, Cariboo road and Bonaparter iver. In all, this necessitated a survey of nearly twenty miles in length.

From the Bonaparte I vent to a point, nearly due south, on Barnes creek, where I made a partial subdivision of township 90, in ranges 23 and 24, west of the 6th meridian. The country here is undulating and hilly; it is partly open and partly well woolde with fir and bull pine of medium size. The soil is fairly good, though alkaline in places, and requires to be irrigated to be productive. The chief drawback is the searcity of water for irrigation purposes. Some of the settlers propose storing the surplus water from the creeks, in ponds or reservoirs, for use during the dry season. Several have already succeeded fairly well by adopting this method.

From here I returned to the survey on Spallumcheen river, where I made a continuous section survey along the Spallumcheen to the east side of Mabel lake. I also marked out the southerly limit of the railway belt in the most accessible places to the south side of the river as far as the east side of Mabel lake. The soil varies from sand and gravel to a good clay loam. There is sufficient good agricultural land for a small settlement. At present there is but one settler located here. The chief drawback is the lack of a good road. In general, the land is well wooded ; in a few places it is open and burnt. The timber on the land surveyed is scarcely valuable enough to be considered as timber limits. There are some good fir and white pine of medium size and a few large cedar, but the good timber is so scattered that it is a question if it would pay the cost of taking out. Along the river, the best of the timber has been cut. As I reported to you on the completion of the first survey I made here, nearly all the timber cut on the Spallumcheen river was taken off Dominion lands. The greater part of the timber cut was, I understand, taken off the stream which empties into the north end of Mabel lake. The survey was not carried to this point, as it lies at least five or six miles within the railway belt. I have been informed by parties, who have been on the ground, that there are good timber limits on the last mentioned stream, as well as on Kingfisher creek, which flows into Spallumcheen river.

On October 15, I quit field operations and returned to Kamloops. Shortly after returning here I received instructions from you by telegram, to locate the northerly and easterly boundaries of timber berth No. 78. This was a matter of only a few days work.

The past summer, like the previous one, was cool and wet, and the winter, so far, has been very mild.

I have the honour to be, sir,

Your obedient servant,

JOS. E. ROSS, D.L.S.

APPENDIX No. 21 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF W. J. DEANS, D.L.S.

SURVEYS IN RAILWAY BELT, BRITISH COLUMBIA.

BRANDON, MAN., February 8, 1901.

E. DEVILLE, Esq., Surveyor General,

Ottawa,

SIR,-I have the honour to submit the following report of the surveys made by me last season in the railway belt, British Columbia :---

Your instructions, dated December 27, 1860, were received on January 3, 1900, and on the 1246 Lieft Brandan for British Columbia. I first want to Endedby to interview Joseph E. Ross, D.L.S., and found that he was about ten miles up the Spallumcheen river. I left Eaderby for his camp on January 16, and arrived that night after a hard tranp through mud and snow. Next day MR, Ross moved camp for miles farther up the river, I accompanied him and remained with him two days. It was to receive from him were at Enderby, and as it would have delayed his work to return with me and get them, we decided it would be better to wait until his return to New Westminster where he expected to be in ten days.

I went from Mr. Ross' camp to New Westminster, where I arrived on January 20, and called on the Dominion lands agent. As I had instructions to survey the northwest quarter of section 22, township 3, range 30, west of the sixth meridian, the agent desired me to do this work while waiting for Mr. Ross, I accordingly left on January 24 for Harrison river, where I engaged three men, and after making the required survey, I returned to New Westminster on January 31, and Mr. Ross handed me over all the papers he had relating to surveys required in the part of the province in which I was to operate. I now made preparations to start the surveys required at Vedder mountain, and having purchased tents and provisions I left for Miller's landing on February 8 with my assistant and cook. The next day I hired a man to take the outfit over to Vedder mountain. The roads were in a very bad state owing to recent rain, and it was in consequence difficult to make much headway, but we arrived at the mountain late that night. I was advised in New Westminster not to make up my party in the city, but to employ ranchers as labourers. There was no difficulty in getting labourers at Vedder mountain. On February 12, I started the surveys required in townships 19 and 22, east of coast meridian, of the lands squatted on by settlers who had been flooded out on the lower lands. There seems to be quite a demand for bench lands ; they are not as fertile as the lower lands, but are safe from high water and are well adapted for fruit culture when not too high. While I was in this part of the ing for bench lands.

The benches of Vedder mountain are very fortile, berries, cherries and pluus grow wild in production : grain does well, and expatables attain great perfection. Ved der mountain occupies the creater part of township 22, east of coast meridian, and is well covered with alder, fit, hennolest and educt, but fite has done con identified damage to the rimber in aone places in this township. The lands squatted on by sattlers are parts heavily induced, fits the timber is generally of noor quality. There are many fitting equations of water throughout the township, which the farmers make use of by $\frac{1}{\sqrt{2}}$, where $\frac{1}{\sqrt{2}}$, where $\frac{1}{\sqrt{2}}$ are $\frac{1}{\sqrt{2}}$, where $\frac{1}{\sqrt{2}}$ are $\frac{1}{\sqrt{2}}$.

1-2 EDWARD VII., A. 1902

means of crudely constructed water wheels, to generate power for a great many domestic purposes. Sumas lake, which occupies the north-west corner of this township, is a source of much trouble to settlers on the lower lands; it is quite shallow in low water but a few days rain in the mountains is sufficient to raise it very high. It abounds with fish of various kinds and is quite a resort for sportsmen.

On March 28, I completed the surveys required in townships 19 and 22, E. C. M., and on the 29th started for Morris creek to make the surveys required in townships 4 and 5, range 29, west of the sixth meridian. I hired a man to take the outfit to Camp Slough on the Fraser river, and there hired men and boats to get up to Morris creek. I had considerable trouble ascending the Harrison river, the water being low and a heavy wind blowing. We arrived at Morris creek on April 1, and commenced work on the following day in township 4, range 29, west of the sixth meridian. This township is very rough and mountainous ; there are, however, many small glades or valleys of good land which produce grain, vegetables and fruits. The township is well timbered in places with hemlock, fir, cedar and alder ; where the settlers are located, it is timbered principally with alder and a few fir, cedar and hemlock of very large size. The Harrison river runs through the southern part of the township. There are a number of settlers along the river who grow fruit and vegetables in large quantities, for which they find a ready market at the Harrison Hot Springs. The finest strawberries I ever saw were grown along this river, and on land which looked unfit to produce anything. Along the river the land is generally high, so that the settlers are not troubled with floods like their more unfortunate neighbours on the low lands. There is quite a large and deep lake in the northern part of the township. I could not find any inlet to it, although there are two or three streams which must empty into it below the surface ; the shores are well wooded with cedar and fir from four to six feet in diameter, suitable for shingles and lumber.

Sections 5 and 6, in township 5, range 29, west of the 6th meridian, are well wooded with cedar, fir and hemlock, two feet in diameter ; they should be reserved for a timber berth.

I completed all the surveys which could be made in Morris Creek valley on June 9, and on the 11th left for Camp Slough on the Fraser river; from this I went to section 24, township 26, E.C.M. The work done in this township consisted of running the castern boundary and some subdivision lines. Lot 439, group 2, occupies the southern part of the township. The northern boundary of the lot, instead of running east, is inclined about six degrees north; the eastern boundary approaches to within a short distance of the castern boundary of townships 25 and 26, thus leaving a very narrow strip between the lot and the townships.

The south-eastern part of township 26 is very high. There is some good agricultural land in sections 11 and 14; the rest of this part of the township is good grazing land, and would be easy to clear up. There are large deposits of marble of various colours on section 13.

I moved camp from township 28 to section 25, township 25, E.C.M., on July 13, and started surveys in township 1, range 29, west of the 6th moridian. The Chilliwack river runs through the northern part of this township. It is from two to three chains in width, four to six, feet in depth, and runs from five to seven miles an hour. It caused me a great deal of trouble to cross and recross ; large trees thrown down in the attempt to form a crossing were frequently swept away, thus a whole day was often occupied in making a single crossing. The tremendous water power in the river will no doubt some day be utilized. There are two settlers in this township who hare located in anticipation of good markets for agricultural products when the mines in the district are developed. The good agricultural parts of the 6th series are developed. I storted running section lines in township 1, range 29, on August 28, and on the 29th storted multime section lines in township is set of the 6th meridian. This township is very mountainous ; the land fit for agricultural purposes is confined to a narrow strip along the Chillwack river and Slesse creek. Three settlers are engaged

In farming in this township, but a great drawback to the development of the district is the difficulty of getting in and out, the only means being a very poor trail, which for a great part of the year is almost impassible. There is some good timber in the northern half of the township, but in the southern part the timber is of poor quality. Some excitement was enused by the discovery of gold ore in this township, many claims were staked on both sides of the international boundary, and in some cases the prospectors recorded their elaims both in British Columbia and the state of Washington, as they were uncertain as to the location of the boundary line. I ran a traverse from the north boundary of the south half of section 15, in order to find station 44 on the international boundary, but evalual north and the state of the paramit of stones which uarked the station. I think it must have been destroyed by rook alides or ice. A great uaux prospectors have been through this section, yet nome appear to have seen any of the marks erected by the International Boundary Commissioners.

There is a large post on the west bauk of the Slesse creck, which was no doubt used as an astronomical station on the boundary survey; it has been regarded by interested parties as marking the intermational boundary. I located the post, but was unable to trace the traverse from it to the boundary. If station 44 could be found, it would be a most difficult task to connect this station with Xo. 45, as the distance is nearly 16 miles, and the country is covered by mountains 6,000 or 7,009 feet high, very rocky and precipitous. It is necessary that this portion of the international boundary line should be defined so that the south boundary of township 1, range 28, end be determined. Most of the mineral discoveries on the Canadian side are in range 29. About the middle of Septenber, a pack train from Chilliwack was scized by the U.S. eastons offleers, which put une to a great deal of inconvenieuce, as I was depending on the pack train for supplies. The people of Chilliwack ano much interested in this mining district, as the natural outlet of the country is down the valley of Slesse creck and Chilliwack river, and its development would mean a great increase of trade to the merchants of Chilliwack.

I finished the surveys in township 1, range 28, west of the 6th meridian, on October 9, and started for Chilliwack on the 11th, arriving there that night. Next day I paid off the party and took the boat for New Westminster ; I remained here till October 18, when I left for Brandon, Manitoba, where I arrived on the 21st.

The past season was a very unfavourable one for field operations ; the amount of rain which fell seemed to me extraordinary, and I was told by old settlers that they considered it a very wet season. It was with the greatest difficulty that the farmers asymed their hay and grain.

I have the honour to be, sir,

Your obedient servant.

WILLIAM JAMES DEANS, D.L.S.

APPENDIX No. 22 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF GEORGE WHITE-FRASER, D.T.S.

LATITUDE DETERMINATIONS ON THE BOUNDARY BETWEEN THE PROVINCE OF BRITISH COLUMBIA AND THE YUKON TERRITORY.

VICTORIA, B.C., February, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa,

Sm.—Acting on your instructions, dated March 4, 1890, and renewed March 21, 1900, I went to Vancouver by the Canadian Pacific Railway, and while waiting for a northern steamer, engaged two men, a cook and a packer, and made some other preliminary arrangements. I had to wait in Vancouver for some days before any boat went north, and finally arranged for the transport of myself and party by the SS. *Cutch*.

Conditions in Skagway have improved since I passed through in March, 1899. Coatoms business was less complicated, and the railway being in operation to Bennett, freight was not piled up everywhere en route. At Bennett, I purchased some necessary articles, and made inquiries as to horses, for some of those I had left in charge of the North-west Mounted Police at Tagish, had succumbed to the rigours of the winter. Suitable animals for mountain packing were source and expensive, and likely to become more so owing to the great numbers required by the Public Works Department for the Asheroft-Atlin telegraph line. I was offered four by a freighter living in Atlin, and thought it best to close at once with him, so went to his camp and purchased them, bringing them back to put with the rest of my band at Tagish. I also hired a sleigh to move my camp outif while working on the ice.

My first point was the southern extremity of the Little Windy Arm. Mr. St. Cyr, D.L.S., had run a line from my post on Lake Bennett, and had erected a monument on the west shore of the Little Windy Arm. After waiting a few nights, I obtained observations, and measured from my instrument to St. Cyr's post, I then struck camp, and went to Caribou crossing to bring up my pack animals. I had intended to go at once, while the ice was still fit for travelling, to the head of the West Arm, and there observe for a monument, but owing to a rather early breakup, considerable portions of Lake Bennett were free of ice, and travelling was very dangerous over the rest, so I decided to move a little distance out of Caribou and remain there until feed was sufficiently advanced for the horses. I had an opportunity of communicating with Mr. St. Cyr, and informed him as to the error of the monument on Little Windy Arm. The breaking up of the ice was much accelerated by violent wind storms from the south, and once it commenced it was not very long before the lake was free, and the boats running between Bennett and Whitehorse. Watson river, on the east bank of which I had made my camp, was much affected by the artificial lowering of the level of the lake through which it flows, which was done by the railway company in order to facilitate the construction of the road. During the lowering process, the river became uncontrollable, burst through a retaining bank and swept everything before it. Where it flows into Lake Bennett, and for some distance up stream, its bed is a deep sticky coze, forming a kind of dangerous quicksand in which I nearly lost one of my best

68

horses. He was so badly exhausted by his struggles to extricate himself from the mud, having fallen into it, that I had to leave him behind. He was subsequently taken over by Mr. St. Cyr, and included in his pack train.

As soon as the grats was sufficiently grown to support the horses. I moved up to the bead of the West Arm, and after an approximation observation, I moved up the river flowing into it, to where the sixticit parallel crosses it. On the way from Caribou to the West Arm, I crossed Wheaton river, along the right bank of which is some very fair spruce timber which is being converted into lumber at Mill Ilaven. There is also fair timber at the head of the West Arm, and up the river flowing into it; and also some on a small lake on the south side of the Arm, almost opposite Mill Ilaven.

West Arm river, some few miles down from its source in the same extensive glacier that gives birth to a number of considerable streams including Chiklat, Alsky, Takhini, and others, widens out into a long lake about six hundred yards wide, near the mouth of which the boundary crosses. The mountains bordering the valley are high and precipitous rising to an elevation of over 3.000 feet above the level of tha lake. On the east side, the line crosses a very precipitous part. There was no evidence of any minerals in the rock along this valley, nor is there any considerable timber although a patch here and there might pay to work when other and more accessible limits have been worked out.

After a delay on account of dull nights, I was able to observe, and placed a monument on the west shore of the lake about a quarter of a mile above the mouth. mound is of boulders and earth, and the post is marked **J** and in accordance with your instructions. A bear walked almost into our eamp upon two consecutive mornings, I then discovered I had placed the moument on his trail.

Throughout the season, the weather was generally unpropilous. At every place I observed for a point, I was delayed by cloudy weather, and i was an unfortunate coincidence that whenever I particularly desired to take a photograph on the way of a glacier, a picturesque precisione, or other interesting view; it was rendered impossible by a very gloomy sky, or perhaps a drizzling rain. The nights are so short in the summer and the light so good even at midnight, that a star of the fifth magnitude is almost too small to observe satisfactorily with the No. 5 altazimuth, nuless the atmosphere is guite clear, and a very little mistines is sufficient to render it difficult, if not impossible, to observe on one of the fourth. I suppose the large glacier and its surrounding snow fields, to which I have referred above, which lies within a few miles of the 60th parallel, is the cause of keeping the atmosphere full of moisture during the summer.

A considerable stream coming from a westerly direction falls into the West Arm at the head ; and I judged that I could Tollow it some distance towards the Takhini. West Arm river meantime had become so swollen as to be impassable for pack animals with loads, so I built a raft and carried my camp outfit across the lake on it. Shortly after leaving the lake, I found portions of an Indian trail leading along the valley ; but it was not of much assistance, being very indistinct and overgrown. The source of this stream is about twelve miles up the valley, at an altitude of nearly 3,000 feet above Lake Bennett. For the greater part of its course it falls along the valley with a rapid current ; but about four miles from the lake it commences to rush down a narrow gorge with precipitous sides which, at and near the lake, are over 300 feet high. There is spruce and jack pine, not of great size, along this stream for growth of spruce, which seldom attains a great r height than six or seven feet. Travel was much impeded by the numerous rock slid s, which filled the valley from side to side with enormous boulders broken off from the mountain ridge. In sary every evening, after having traversed any considerable number of these slides, to overhaul the horses' feet, reset loosened shoe- or put on new ones, otherwise I should

1-2 EDWARD VII., A. 1902

shortly not have had one horse in fit condition to pack. The watershed between Lake Bennett and the west along this route is 5,800 feet above sea level ; the pass is bleak and bare of anything except moss and lichen, and the snow so deep that although I crossed it on July 6, I believe it would have been impassable a week earlier. From the summit of the pass there is a gentle slope to the west of about two miles ; then a very steep drop brought me to a fair-sized stream flowing northward, which I subsequently concluded to be one of the sources of the Wheaton river flowing into Lake Bennett near Mill Haven. I followed this stream up a few miles to place a monument on it, but it forked farther up ; the eastern fork runs too near to my post J, and the western branch terminated, or rather commenced, in a perfect cul-de-sac, filled by a rugged glacier, up which I could not work near enough to the parallel. Returning, therefore, down stream looking for a feasible pass to the west. I found that the main stream of Wheaton river came down a long, gentle, sandy valley from the west, and that the stream on which I was travelling was a branch. I turned up the main stream and followed it for some miles to the actual head of Main river, a small, clear lake, surrounded by bleak, bare, rock-strewn mountains. From the hills above the lake, the course of Wheaton river may be seen for a long distance running in a northeasterly direction before it turns south and falls into Lake Bennett. There is a considerable quantity of spruce timber all the way down this valley, but a fire has been through it and destroyed considerable areas. Although too small to have much value as lumber, it might serve the requirements of local miners. Along the valley there are indications of quartz, and on my return, I learned that some good specimens had been brought out. Leaving the Wheaton source, and crossing a watershed at an elevation above sea level of 5,000 feet, I found, to my surprise, spread out before me and stretching in a northerly and southerly direction, a wide, deep valley, through which was flowing a considerable stream, widening out below me into a long lake, which continued as far as I could see up and down. On reaching the level of the lake, I found a fairly well marked Indian trail leading along the shore, and a little farther down on the spit of land jutting out into the lake was evidently an old camping ground with wigwam poles left standing, awaiting a traveller. I came to the conclusion that this must be the Takhini river indicated on map, sheet No. 5, and somewhat out of place. I followed the lake shore south to the parallel, and while waiting for an observation, explored in various directions. This river takes its rise in one of the branches of the great glacier twelve miles or so south of the 60th parallel, and flows in the direction N. 10° to 20° W. It very shortly attains a considerable volume, being increased by numerous streams of small and medium size falling into it from east and west, all of which are glacial, until about five miles from the glacier, it is about 150 feet wide, and of an average depth of at least thirty inches, with a current of about three miles per hour. For the first ten miles or so it runs a tortuous course through a wide valley, forming mud bars and marshy flats ; the bordering mountains are high and rugged near the glacier and slope steeply down in almost impassable rock slides ; farther north on the east side the slope is easier, and the mountains recede somewhat, leaving a valley. The bottom of the valley and some distance up the sides is covered with thick willow and other brush and scrub. with splendid grazing for animals. Here and there a torrent rushing down from the snows above, has washed down giant boulders and rocks and gravel, which it has strewn along its course, building up its own bed many feet above the level of the valley. Fragments of quartz are very common in these wash heaps, and along the shores of the lake ; and I found several large and small lumps of a substance closely resembling, both in appearance and weight, iron ore that had been subjected to the action of heat sufficient to burn it. On the mountains I found in many places veins and 'stringers' of quartz, in some places as much as six and eight inches wide, and great quantities of it scattered about everywhere. It was chiefly, however, of the kind called by prospectors 'bullquartz,' that is dead white in colour, sometimes slightly crystalline, and probably quite barren. There is very little timber on the

east side of the river, and it is quite small and insignificant ; but on the west side, especially along the hills bordering the lake, there is in phases a close growth of sprace and jack pine, sourclines over twelve inches through, although usually smaller. The timber belt is narrow, extending only a few hundred feet above the lake level; hower is the usual serub and dense underbrack. I also found in places the distinctive green copper stain in the rock, although never any stronger indications.

After considerable delay I observed and placed a monument on the east side of the valley, about 100 yards south of a considerable brook discharging through an elevated gozge, and thence finding the level of the valley by a series of easeades, and about 400 yards from the bank of the river. The post stands out high above the surrounding brush and is marked \mathbf{K} .

I crossed the river at a rather deep ford, and went north along the west shore searching for a feasible pass over the mountains to the west. There were many that seemed to offer a possible route, but all of them eventually terminated in glaciers, the moraines of which, with the bordering mountains, presented difficulties insuperable to horses. At last, however, I found a high valley leading far back discharging its stream into the lake down a very precipitous and deep gorge, which, although blocked by the usual glacier and strewn with rocks and boulders, afforded a possibility of getting farther westward. The route along this stream was almost a continuous rockslide, and, therefore, difficult travelling, and the serambling up the terminal and lateral moraines of the glacier required great eare not to injure the horses, but the summit was attained without accident. There, at an elevation of 6,000 feet above sea level, I found that the actual mountain tops were but little above the level of the summit of the pass, and as far as I could see was an ocean of jumbled boulders. In front of me, about three miles away, the hills sloped very suddenly to a deep valley, the bottom of which I could not see, while beyond, lay a lofty barrier of mountains, rising abruptly from the valley, and holding amid their jagged peaks, glaciers and snow-filled crevices. They were apparently considerably higher than any I had previously crossed and much more rugged, and I examined them in vain through the glasses for a possible pass. Beneath, between the summit and the valley, was a small plateau holding a green glacial lake, in the surface of which were mirrored two commanding masses of rock that stood up some hundreds of feet above it. The peculiar horizontal lines of cleavage, so often seen in this part of the mountains, give the cliffs almost the appearance of masonry. precipitous descent, to another large river flowing northward, the valley of which lay spread out with the glacial stream running in a serpentine course far below me. This river like the one a few miles back, widened out into a lake not of any great length. The majesty of the mountain masses in the grip of fields of ice, rather heightened by the gloomy clouds which veiled some of the higher peaks, presented a seene of great sand feet, sheer in places, in others very steeply to a somewhat lower elevation ; on the west, they were equally precipitous but apparently higher. From where I stood to the river bank, proved to be a descent of 2,750 feet, and not more than 400 yards in plan. I found traces of a trail on the east bank with old chopping by both Iudian and whiteman, and some old eamp grounds. Afterwards, washed up by the lake shore, I found that this was the real Takhini river shown on the map, sheet No. 5, and that the river some seven miles east, had not up to then been generally known. The level of the valley where I descended to it, is about the same as that of Lake Bennett, and as might as I could see. The character of the rock appeared to be much the same as all along my route with veins and stringers of quartz cropping out in places. I also observed

some pieces of 'float' that much resembled lignite, and I was not surprised to hear on my return to Skagway, that coal had been discovered on the Takhini near Whitehorse, which, of course, is much farther down stream than where I was.

The Takhini is a glacial river and takes its rise in the great central glacier that is the commo birthplace of so many streams. After a tortuous course of some miles, it widens out into the lake shown on map, sheet No. 5, and after about six miles of lake, turns sharply to the west beyond which point I could no longer see it. After several days delay, which I employed exploring for a way across the mountains to the west, I obtained an observation and creeted a monument by the river bank on the east, marking it **L**. Notervation and creeted a monument by the river bank on the east, markantly compelled to decide in favour of returning to Bennett and thence to make my way to the 60th parallel again via Skagway and up the Dalton trail. I varied the return journey by making straight for Bennett, from the source of the eastern branch of Wheaton river across a bleak divide, and thence down a glacial stream to the head of the long lake on West Arm river, then across another low summit by an extensive hay meadow down to Homan river, and thence to Bennett.

Bennett eity was practically deserted, most of the hotels and other places of business having been moved down the river to Whitehorse. I then took my horses by the White pass to Skagway. The bleached skeletons of horses lying scattered thick among the boulders along the trail and the rugged beds of the mountain torrents are mute witnesses to the heartrending labours and privations imposed on pack animals during the early days of travel over the Chilkoot pass before the construction of the railway. Even now, the trail from the summit down to Skagway is rough and bad travelling.

Shagway people seem to be ignorant as to the Dalton trail to the Porcupine country. I think they prefer not to believe that there is a rather promising mining country for which Skagway is not the natural point of entry. From Skagway to Haines' Mission, which is one of the southern terminals of the Dalton trail, is a few hours run with a steamboat. Landing at Haines necessitates crossing the treacherous Chilkat river a few miles up, as there is no trail up the east bank. The river bed is full of shifting quicksands and being wide, makes a difficult and risky crossing for horses. I had engaged the services of a Chilkat half-breed with a canoe, and owing to his knowledge of the river, got all my horses across without accident, although even then they floundered into several quicksands. Once across, there was no further difficulty, as the Dalton trail is built through bush and over swamps up to Porcupine, the centre of the Porcupine mining district. Until a road is built along the east bank of the river as far as the Indian village of Klukwan, it would be better for persons taking horses into that country to take them round to Pyramid harbour instead of landing at Haines. The latter is really the end of the Dalton trail and obviates the Chilkat crossing. There is no town at Pyramid, no store, and no feed for animals until they are taken a little distance up the trail, but I consider these disadvantages are not so great as the risk of taking animals across the river from Haines. Travellers must be prepared to buy feed for their animals along the road to Porcupine. As the trail for the greater part is through thick forest and the remainder along the gravelly bed of Klehini river, there is no feed and practically no convenient camping grounds. The Porcupine Trading Company have a stopping house at Longbridge, halfway to Porcupine. Once at Klehini river, the road generally keeps along it necessitating very frequent crossings which are sometimes risky on account of the depth and strength of current. At Porcupine the Trading Company has a store at which everything in reason can be obtained for a mining prospecting, or surveying expedition. Prices are a little high.

Seven miles beyond Porcupine is Pleasant Camp, the Mounted Police post, and two miles beyond that the trail finally leaves the river heat and rises out of the timber on to the bare mountain sides. From here on to Dalton House, at the crossing of Alsek river, timber is met only twice, at the Glacier carnon, about thirty miles from Pleasant camp, and at the Bear camp, fourteen miles farther. The trail is high in the mountains, in places your bacey. At Bear camp, 1 took an observation for

approximate position, and followed the Aleek river down a few miles to the parallel. It was now September and getting chilly, and slight falls of snow portended the approach of winter. At this point I set up a monument on the east bank of Alsek river, some little distance up stream from the mouth of the eanyon known as "Morse' canyon. It is marked **M**.

There is a good deal of timber on both banks of the Alsek. I may say that the river I call the Alsek is marked on the maps as the Tathenshini. I learned from Indians and others acquainted with the country that Alsek is the proper name, and that Tathenshini or Tathenshini, as I have spelled it on my map, is the name of another stream tributary to the Alsek. At the ond of this report I append a note on the nomenclature of some of these streams.

Dalton House, where the trail cresses the Alsek for the third and last time, is about twelve miles downstream from the boundary. All the way down the river, and for some distance up its eastern tributaries, there is good timber, and the men who were with me, both of whom were prospectors of long experience, spoke to me of the favourable appearance of the rock, more especially in the section around the headwaters of a stream flowing into Chilkat river north of Mount Glave. On my return I learned of the 'strike' up Bear ereek, which, from descriptions, I gather to be the very stream I refer to.

At Dalton House I had to cross the Alsek to the right bank at the Mounted Police post. The river is a considerable suc, and a slight rain in the bills, or warm weather melting the snows, makes it unfordable. This is the point where the Wesketahine Indians have their village. These Indians are a branch of the Sticks, but have apparently many distinctive features. Their language differs from that of the Chilkats to the south, and from that of the Hutshis, 150 miles to the north. It seemed to me to have a peculiar and rather pathetic significance this fact of seventyfive persons all told constituting a separate nation, with peculiar language and customs. They have intercourse with other tribes, and to some small extent intermarry, but on the whole keep very much to themselves, trading in furs and eatching salmon to dry.

I followed the right bank of the Alsek down to the 60th parallel again, about sixteen miles. There is fair timber all along, and very good grazing. I followed one affluent stream up for some distance, leading in a westerly direction, in order to get around a deep gorge that was impassable. This led me out on to an extensive tract of level country, with hay marshes in which, I believe, a large quantity of hay might be put up if ever minerals are discovered in the vicinity in sufficient quantity to attract a settlement. This level stretch, extending for many miles, terminated at the foot of a lofty range of snow-eovered mountains that seem to run in a general northerly and southerly direction with, no doubt, a considerable stream running parallel to them. I believe that this stream will be found to be the Kaskawulsb, and that the deep cleft in the mountains contains the stream called the Alsek on the maps, but whose real name, according to my Indian informants, is the Sectee, spelt according to the sound. In that case the rest of the boundary, west of the Alsek river, will be easy to run, being mostly over the flat country. Having got round this gorge, I headed back to the river through a very dense brush and brule windfall. Camping not far from the top of the descent to the river on the shor of the lake, I observed much broken quartz 'float' seattered about, and finally found the outerop of a considerable ledge. All along the river bank also, quartz fragments are frequent. I set up my instrument on the bank of the river and observed, being nightly visited and inspected by bears whose footprints, some of them enormous, were observable in the sands next morning. I was anxious to get away, as there had been several slight falls of snow, and the snow line was rapidly erceping down the mountain sides, and I was very glad when I was able to set up post N on the west (right) bank of the river, about a half mile down stream from the mouth of the deep gorge I mention above.

1-2 EDWARD VII., A. 1902

I immediately broke camp and returned to Dalton House, where I found the head packer of the Porcupine Trading Company. He strongly advised me to hurry out as quickly as I could unless I wanted to get snowed in. I had intended to go east from and put in another post towards the Takhini, but in consequence of this advice I abandoned that idea and determined to go out. I left a quantity of supplies at the police post, taking a receipt for them, and started on the morning of October 7. It very shortly began to rain, then turned to snow, and by nightfall there were several inches of snow. From that time it snowed every day until on the last summit, a day and a half from Pleasant camp, it was quite deep, and to follow the trail was a matter of some difficulty. There was, of course, no feed for the horses and no wood, so it simply meant pushing on. It snowed so continuously that the day after I crossed the last summit the trail was blocked and impassable and the inside country shut off completely. In fact I had just managed to get out in time. Thence to Haines was easy travelling. I sent the horses to Pyramid this time and crossed then to Haines in a scow, whence they were taken to Skagway and thence to Tagish for the winter. I believe horses will be expensive in the spring in consequence of the demand for the telegraph line and the rush into the Salmon and other new districts, so I judged that it would be economy to send them to Tagish rather than sell them for the very few dellars they would have fetched then. After a few days in Skagway settling up, I returned to Victoria to prepare this report and plan.

Note A. Rivers.

The river I have marked on my map, between the west arm of Lake Bennett and Takhini river, seems to be quite unknown to any prospectors I have met, and neither the Chilkat Indians of Haines and Klukvan, nor the Sticks living at Wesketahine were able to give me any information about it, and yet there is a trail on its cast bank. I supposed it is used by the Hutshis on their way seat, or by the Tagish Indiang going west. I believe that it must be an affluent of takhini, otherwise it must be Watson river falling into Lake Bennett at Carloba crossing. This latter is its more the value of the stream where I crossed it within twelve miles of its source was apparently considerably greater than that of the Watson at its mouth a mouth earlier. On my map I have named the streams according to the names known by the Indians. The main river by the Dalton trail is Alsek. It first large tributary from the east is Tatshanhini (not Tathenshini), then comes the Takheni (different from the large Takbini). The Kaskawalsh is paperently correct, but the large affluent of the Alsek lower down than the Kaskawalkh is the Seetee, not Alsek. Hin, or Hini, seems to be an affix signifying in the Chilkat language, water or river.

Note B. Communications.

The great obstacle to the rapid development of the Yukon mining resources seems to be the want of good transport facilities. When I was up the Porcupine district, I heard a great deal of the wealth of the crecks 'inside,' and that the only reason why prospecting had not been followed by mining on a large scale in the neighbourhood of Lake Dezadeash was the expense of getting supplies in. It struck me that if ever that district porced a really wealthy one, there is probably a feasible route for a railway into it without going through the United States territory from Haines. Starting from Caribou, there is a possible route, via Wheaton river, over the summit down to New river, following my route from the head of the Wheaton, then down to New river, and the support of the What is a possible route, and the support of the west of the Oliver of that long lake, thence into the Takhini valley. As the mountains seem to get lower und less rugged the farther one goes north from the central glacier south of the 60th yarable), it is more than probable that there is a feasible route for crossing the Takhini to the country west of the Dalton trail.

Note C. Keep of Horses.

I do not know whether it is the intention of the government to do much work in the Yukon requiring the use of horses as pack animals, but if such is proposed. I think it might be economy in the end to have a few men put up hay at some central points, with sheltered corrals and a small log eabin, so as to winter the animals instead of selling them in the fall and purchasing anew every spring. This year I had to pay 875 each for four anumials (getting them cheen) and 890 for a fifth, and on my return I could not have got any reasonable sum for them. There are hay marshes up Homan river, about twelve miles from Bennett ; at the mouth of Torchi river flowing info Taku Arm ; at the head of Atlin lake, and smaller ones elsewhere. Near Dalton House, there is an extensive meadow where a large quantity of hay might be put up at small expense. A band of horses that have run together for some time are more valuable as a band, than the total of their individual rathes, and it is a pity to break up hands that have run together a whole summer in order to take chances in the spring with a lot of furticed animals.

I have the honour to be, sir,

Your obedient servant,

GEORGE WHITE-FRASER, D.T.S.

APPENDIX No. 23 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF ARTHUR SAINT CYR, D.L.S.

SURVEY OF A PART OF THE BOUNDARY LINE BETWEEN BRITISH COLUMBIA AND YUKON TERRITORY.

OTTAWA, April, 1901.

E. DEVILLE, Esq.,

Surveyor General, Ottawa.

Sir,-I have the honour to submit the following report of my work in 1900 on the survey of the boundary line between the Yukon Territory and the province of British Columbia. The boundary line is the sixtieth parallel of north latitude, along which stations were established by George White-Fraser, D.T.S., in the season of 1899. I connected these stations by lines having the same curvature as arcs of the parallel. The latitude of the stations was determined by astronomical observations, and monuments were erected in order to perpetuate the stations. Between Lake Bennet and Teslin lake five monuments were placed ; one on the east shore of Lake Bennett, it is marked by a large wooden post and an earth mound ; a second on the east shore of Atlin lake ; a third, called A, in Happy valley, eleven miles east of Atlin lake ; a fourth, called C, is thirteen and a half miles west of Teslin lake ; and the fifth one. D, is found on a ridge 390 feet to the west of the shore of the lake. In the fall of the year 1899, an astronomical station was determined on the west shore of Taku Arm, ten miles and a half west of Atlin lake ; and in the spring of 1900 Mr. White-Fraser observed on Windy Arm in order to determine the location of the boundary at that point, thus making in all seven astronomical stations in a distance of 85 miles.

My instructions of April 4 were to complete the posting and mounding of the line between Bennett and Allin lakes and to continue the survey of the boundary line as far as Teslin lake. I left for Vancouver, where I organized my party on April 13, and took passage on the steamer Danube. After a voyage of isi days, I landed in Skagway, where arrangements were made with the railway officials to have my supplies shipped to Bennett with as little delay as possible. I received from the North-west Mounted Police at Bennett part of the outfit which had been stored there the previous fall. I remained in Bennett three days, whiling the arrival of the supplies and transport outfit from Skagway ; in the meantime I made the necessary preparations for our trip to the boundary.

On Lake Bennett the ice up to April 23 had proved to be safe for transport, but could not be relied on much longer. Reports had reached us that at Upper and Lower Caribou crossing, two teams of horses had gone through the ice and had been lost with their loads. I therefore decided to engage a freighter at once, and send him with one of ny men who knew the country, to make caches of provisions on the boundary line at Taku Arm and Altin lake, so that if the ice happened to break up whilst we were working in the mountains, we would have sufficient supplies to keep us till navigation opened. I then left with the rest of the party for the boundary line, about twelve miles north of Bennett. On leaving Bennett we were provided with hand sleds, which proved valuable as means of transportation on the lakes as long as the ice lasted. At this time snow slides from the range of mountains west of Lake Bennett kent up a row, which centineed all night when the weather turned

mild. The snow was five and six feet deep on the low lands, and as sleds could not be hauled in the mountains, we were obliged to carry supplies and outfit on our backs.

In all my experience of snowshoeing at many points between Labrador and Alaska, I found it in this district in the spring time the most difficult and fatiguing. This is due to the fact that all through the winter the weather is cold and dry so that the snow does not pack, but is very light and of great depth ; when the warm weather of spring melts the surface, the under snow becomes a soft slush, into which a snowshoe will sink as much as two feet. The great daily variation of the temperature from a hot sun in the day to as much as 20° below zero during the night added to our troubles. When we camped for the night, we had to spread our blankets on sleeping bags on the snow ; in the morning we would find our boots frozen so stiff that it was difficult to get them softened sufficiently to be able to put them on. Our equipment was as light as it could be, and the provisions were selected with a view to much nourishment and little weight, still the whole outfit at the start was more than could be carried at one trip. By starting at daybreak, we had the benefit of the crust formed on the snow during the night, but about 10 o'clock it melted, and travelling became extremely laborious. Thus we plodded along the line, having to dig trenches in snow ten to fifteen feet deep in order to plant posts and build monuments, until the beginning of July, when the last post was planted on the west shore of the Taku Arm.

The topography of the country traversed by the line between Bennett and Atlin lakes was so minutely described in my last year's report that I need not give any further description. The boundary line over this stretch of thirty-six miles is defined by forty-two monuments erected on the most prominent mountains and ridges, and in the valleys. The line was well cleared whererer it ran through forest; the numerous photographs taken from the highest points traversed by the line show the opening through the faulters of the country.

On my arrival at the astronomical station crected on the east shore of Lake Bennett, I commenced the work of posting and mounding the boundary to connect this station with the one on Taku Arm, and continued as far as the top of Racine mountain, where natural difficulties prevented me from proceeding any farther for the time.

I then started for Taku Arm, and had almost reached my destination when 1 received a message from Mr. White-Fraser informing me that his observations for latitude at Windy Arm showed that the trial line was 16·13 chains to the south of the true parallel. On receiving to this message. I wrote you for instructions as to how I was to proceed; in the meantime, I continued on my way to the point at which the trial line intersects Taku Arm. As instructed, I measured an offset north of 1,215-5 feet, and built a monument, which now marks the true boundary; i from it, I ran the line west to counter with the position of the 60th parallel, recently determined by Mr. White-Fraser. This line is posted and mounded as far as the top of White-Fraser mountain. I could not go any farther west, because of insurrountable obstacles.

I then retraced my steps to Taku Arm and entered Talaha bay, which I followed till the ice grave out, and barring abandoned the sleds, I made my way across country to the east shore of Atlin lake by May 18. The old trial line was then produced to Mr. White-Fraser's astronomical station on the east shore of Atlin lake; the stati m was found to be Joli feet north of the trial line. The true line was then run westward to connect with the astronomical station on Taku Arm. It was opened, mounded and posted in accordance with instructions. There are eighteen posts and mounds to the west of Taku Arm, and twelve to the east. The most westerly one is fourteen and a half miles from the Arm; the most easterly one is is fourteen and a half miles from the Arm; the most easterly one is is instructioned permit.

DELIMITATION OF THE BOUNDARY BETWEEN ATLIN AND TESLIN LAKE.

By the time we reached Atlin lake, it was partially free of ice, the snow had almost disappeared from the low lands, and the new growth of grass was showing on the low slopes of the hills. I therefore thought it advisable to procure some pack animals ; so far we had only one horse, which had not been of much use to us, as it had become lame while being led along the stony and swampy shore of Taku Arm to our camp on the railway line, a distance of fifteen miles. No horses could be purchased at any price in Atlin, as they had all been secured by the parties then constructing the Dominion telegraph line to Telegraph creek. I therefore telegraphed Captain Primrose, in charge of the Tagish post, who replied that he had no pack animals to spare, but referred me to Mr. J. Haney, who was then building the British-Yukon railway between Bennett and Caribou crossing. I got four horses from Mr. Haney which, though not regular packers, could in an emergency be made to do the work. I also got one from Sgt. Heathcote, in charge of Caribou post, which had been left here in the spring by Mr. White-Fraser. I returned to Atlin with the five horses, though I could have employed twice the number. The progress of the preliminary survey was very slow and laborious, due to the lack of sufficient means of transport, together with the absence of a broken trail, and the consequent difficulty of getting over a country in which the growth of timber and underbrush is so thick, that it is practically impossible to take pack horses through without cutting a track six feet in width. During the progress of the survey a portion of the party was engaged exploring in the vicinity of the line for the best ground over which to take the pack train, and in blazing and cutting a trail. Caches of provisions for use on our return trip were also left at suitable points along the line; this proved a great boon when, owing to the lack of proper feed, the horses became so exhausted that they were not able to carry the loads exceeding one hundred pounds each.

METHOD OF SURVEY.

The astronomical stations were connected by marking on the ground a series of tangents to the prime vertical circles passing through each of the astronomical points; from these tangents the calculated offsets to the 60th parallel were measured at approximate distances of one mile. From the last measured offset between an astronomical station and the tangent passing in its vicinity, the relative station-error was found. In the final marking of the boundary line, the station-error was distributed by the output of the boundary line is marked by iron posts three feet long and three-quarters of an Inch in diameter, driven flush with the ground where the soil would permit; a longidt the iron post is a wooden one, at least four inches square, with the letters Y (Yukon) and B.C. (British Columbia) cut on opposite sides. The posts are so placed that the letters respectively face north and south. An earth or stone mound is also built around the posts. The correct position of the monuments was obtained by measuring from the trial line and at right angles to it. The formula used in deducing the value of an offset for the curvature was the following :

Offset in links=C. 2. Log. d.

where d is the distance in chains from the origin of a tangent: C is a constant calculated for the 60th parallel, and is equal to 14+33610. To the result thus obtained was added the proportional part of the station-error. The distance between the stations was measured with a Lugeol micrometer, the angular value of one revolution of the screw having been ascertained beforehand. The Lugeol micrometer is a double image micrometer; it consists essentially of a telescope with the object-glass cut dimetrically in halves, each half being suitably fixed in a frame which slides in another one. Motion is communicated to the frame holding each semi-objective by

means of a fine screw of the shaft, one-half of which is a right-hand screw, the other half is a left-hand screw, and each part turns in a corresponding nut fixed to its half of the object glass. Each half, of course, gives a full image of any object sighted at. The displacement of the semi-objectives is measured by the revolution of the screw which moves them, and on the head of which is placed a circle divided to hundredths. In my instrument the value of a revolution was about four seconds of arc. Before using the instrument, I determined the exact value in are of every revolution of the screw, and tabulated the results ; from these I determined the value of parts of each revolution. This was done in the following way : A distance of 10.313 chains was carefully measured ; at one end a board with a mark at every third link was set at right angles to the line of sight. At the other end of the measured distance, the micrometer was set up and the number of revolutions or parts of a revolution required to pass over the distance between the first mark and each subsequent mark was noted. These were afterwards converted into minutes and seconds, and it was then easy to construct a table of distances for any movement of the screw. In measuring an angle carc was taken to always turn the screw in the same direction. The field of the telescope is about 2° 10'; this being the largest angle that could be measured, the following bases were, therefore, the longest that could be taken at

For	distances	up	to	5	mile,	the	base	was	60	feet.	
	**	**		l	66		66		200	44	
	66	"	9	2	miles		66		400	44	
	**	66	- 1	3	66		66		600	66	
	66	66		ł	66		66		800	66	

The bases were, when practicable, placed at right angles to the line of sight. Their extremities were marked by straight poles, the bark of which had been peeled off every alternate foot, and a square of black and white cotton was tacked to the top of the poles. The telescope is powerful enough to show these for a distance of several miles.

NUMBER AND LENGTH OF TANGENTS BETWEEN ATLIN AND TESLIN LAKE.

At the astronomical station established on the cast shore of Atlin lake, observations for azimuth were made, and my first trial line stated at an angle of 90° with the meridian. It was produced on that bearing to a point 3×3 miles east of the station. The point is 3,700 feet above the sea, and is on the northern slope of a group of granitic mountains which rise on the east shore of Atlin lake, and are south of the line and nearly parallel to it. From here, the trial line was dedicted north at an angle of 11' 30°, and produced 7 10 miles farther to astronomic station Λ , which was found to be 163 feet north of my trial line. I had, however, been informed that the position of this monument was erronous, and that it should be 571 feet farther north. It therefore, moved it, thus making the total offset or station-error 220.5 feet north of my trial line. The distance between the astronomical station on the east shore of Atlin lake and station Λ is 10.93 miles ; thirteen posts and mounds were creeted on this portion of the line.

Only one important valley is crossed in that distance : where it is intersected by the line it is 850 feet wide ; it is banks are high and very steep and are in places denuded of trees, but terminate in terrances so thickly timbered with small pine as to be impassable. The stream in the valley flows towards the north and feeds the numerous lakes which dot the low and swampy country to the north of the line. Station A is marked by an iron post three feet long, and three-querters of an inch in diameter ; driven flush with the ground and alongside of it is a long wooden post, around which a mean of earth five feet square was built. This monument stands on the top of a ridge, running north and south, and between two lakes which are intersected by the line. The western lake is an expansion of the stream which dows northering through

1-2 EDWARD VII., A. 1902

Happy ralley. Where the line intersects the valley, its width measured between the crest of the hills is less than three-quarters of a mile whilst the bottom-lands are searceby one thousand feet wide. The hills on the east side of the stream are steep, and furrowed by ravines with bare sides; they rise 250 feet above the stream and terminate in a terrace; those on the west side are not quite so high but are thickly timbered.

The stream which flows through Happy valley may be described as a succession of small lakes, or ponds, connected by short stretches of river flowing swiftly over a stony bottom ; the water is dark brown in colour, showing that the head waters of the stream and its tributaries drain extensive swamp areas. Grass is plentiful along the river bottom, marshes, and lakes, and is also in abundance on the eastern hillsides which are denuded of timber. The high grass along the marshes and ponds grows so rank that it is not nutritious ; the pack animals do not eat it, but prefer the short bunch grass on the hillsides. There are many beautiful varieties of flowers in this part of the country. The ponds are frequently covered with white and yellow water lilies, while on the hillsides are great patches of bright colours. I noticed two varieties of wild roses, they were in bloom in July. A beautiful bright blue flower, with leaves resembling the clover leaf, only a little longer, is seen everywhere and is in bloom all There is also the Epilobium angustifolium, the common fire-weed, that summer. springs up on the burnt hillsides and covers acres with pink blossoms. I also noticed blue and yellow violets, anemones, iris, asters, potentillas, pyroleas, all of which flourish in the woods in the vicinity of Ottawa.

We remained two days in Happy valley to give our horses a well deserved rest. In the meantime, some of the party prepared a cache, while others explored for a practicable way over the hills to the east of us, and I was busy myself observing for the uext trial line from station A.

Happy valley is well named. Surrounding our camp was an extensive flat with groves of pine and poplar, and just in front of us, the river expanded into a lake, fairly alive with fish. North of us the valley opened, and we had the benefit of a cool breeze, a welcome protection against the mosquitos which had tormented us since our departure from Atlin. Close to our camp was a spruce bough tepee, the winter house of some hunters. No practicable route across the hills to our next camp having been found, I decided, though it would be a long and circuitous way, to follow Happy valley for four or five miles in a south-easterly direction, and then endeavour to enter the valley of one of its tributaries flowing south, and which is intersected by the 60th parallel about one mile and three-quarters east of station A. The position of station A being now correctly established, the survey of the second section of the boundary was begun. The first tangent east of station A was run to a point 6.13 miles distant ; here the line was deflected north 18' 20", and produced a distance of 12'80 miles where a deflection amounting to 20' north was made. On being run 3.95 miles farther east it struck 52 feet south of astronomical station C. I had been instructed to move this station S1 feet north, in order to place it in correct position. This made the total station-error at this point equal to 133 feet; the monument in this case is also north of my trial line. The distance between stations A and C is twenty-four miles, and 24 posts define that portion of the line.

This section of the boundary follows for some distance the axis of the drainage system between the waters of Gladys lake and those dowing north and ultimately into Teslin lake. Gladys lake is a fair-sized sheet of water emptying into Teslin lake ; it is in a depression bearing northwest and southeast, and its western extremity, which is the nearest point to the boundary, is five miles south of the line. When twelve miles and a half east of station A. I established my camp near the eastern extremity of Prouls lake, the most easterly of two narrow lakes of nearly the same size, each about one mile and a half long, and lying in close proximity to each other. I have called the second one Chabot lake ; both are named after two of my men. The supplies we had brought from Atlin were now nearly exhausted, and it became imperative to procure more ; we were the less than 40 miles from Sturrise city.

where, during my stay in Atlin in the early summer, I had arranged with Mr. D. H. McDonald to bring my supplies. It was on these that we now depended to carry on the survey. I had been informed that there was a fairly good trail leading from Gladys lake to the head of Surprise lake, but no well defined road around the lake to Surprise city, a distance of about 20 miles. I had in consequence shipped a canvas boat with my outfit, in which I could have my supplies brought to the trail at the north extremity of Surprise lake, in case I found it impossible to reach Surprise City with the pack animals. In order to locate the bearing of Gladys lake from our camp near Proulx lake, I ascended the top of the highest mountain in the range which separates the valley of Proulx and Chabot lakes from that of Gladys lake. From the summit (1,900 feet above our camp) I had a very good view of the surrounding country, and noticed that towards the east the range came to an end, and I could perceive beyond it a valley running south, and which I thought might connect with that of Gladys lake. Upon further examination it was found that there was so much fallen timber in the valley that it would be impossible to take the horses through, so we chose a narrow and higher passage between the east end of the range and an isolated hill, which bore nearly east of our camp. Before reaching the summit of this pass, we had to go through a wide belt of thick brush. From the summit we turned in a southerly direction, and began a gradual descent towards the valley, which would ultimately bring us near the west extremity of Gladys lake. To reach the narrows, where the crossing to the opposite shore of Gladys lake is effected, we kept well above the timber belt which grows along the north shore of the lake. We swain the horses across the narrows, and pitched our camp on the extremity of a narrow and sandy point, a mile long, and which divides the lake into two unequal parts. A raft was built to be used on the return trip to cross our supplies. A mile south of our camp, we struck the government trail; it has been carefully blazed and could easily be followed. From Gladys lake it runs along the east side of Consolation creek. There is only one steep hill on this route before the summit is reached ; then the descent towards Surprise lake begins, and the trail is good all the way. Here it follows the left bank of a stream flowing into Surprise lake.

Along Consolation creek the ground has all been staked by miners, but very little developing has been done on the claims.

We reached the head of Surprise lake on the night of August 23, having crossed the divide between Gladys and Surprise lakes early in the day. The head of the lake, where we pitched our tents, must have been and by them in curving ground for the miners, as a considerable elearance has been made by them in cutting firewood.

I started for Surprise City with three men and two boats, one of which was an old canvas boar we found partly imhedded in the sand, and repaired. Two other men, with the pack animals, were to follow the east shore of Surprise lake and join us at the trading post, but they had not gone more than five miles when the trail became so indistinct that they missed it allogenter, and coming to some low flats, were unable to proceed any farther. These flats are boggy and covered with tuffs of grass growing in watter and mud twelve to eighteen inches deep. Travelling over this had so exhausted the horses that they had to be taken back to the camp at the head of Surprise lake, where feed for them could be got.

On my arrival at Surprise City, I found that the agreement which I had entered into with Mr. D. H. McDonald for the transportation of our supplies from Atlin City to the foot of Surprise lake had been only partially carried out. My canvas boat had not been brought over, and I was obliged to dispatch a messenger to hurry; its delivery, for as our horses had not arrived, I suspected that the packers were unable to make their way around the lake.

Two days later we started with loaded cances for our camp, but when about half way, a severe storm arcse, and we were compelled to put ashore. In the evening of the second day of the storm the wind abated, and we continued our trip, arriving at

25-iii-6

1-2 EDWARD VII., A. 1902

the camp early next morning. On September 10, we retraced our steps to the main camp on the boundary.

The survey of the line was now resumed, and by successive stages was brought to astronomical station C.

Most of the hills crossed by this section of the boundary are covered with groves of pine intermingled with spruce, but the trees are small and in many places have been uproted by the wind and scattered in every direction, showing the small depth to which their roots reach, and the great force of the wind which at times sweeps over this country.

One mile and a half east of astronomical station A, a tributary of the stream flowing through Happy valley is crossed, it heads from the north and flows through a narrow valley. Another stream is crossed about four miles east of station A. It is in places fifty feet wide with frequent expansions into lakes which abound with fish. Pike of large size were eaught here with the net.

We had now only to connect astronomical station C with station D. The latter station is user the west show of Teslin lake. Two deflections were made on this section : the first one was 8' 18" to the north and 2.75 miles east of station C ; the second deflection was made 6.01 miles still farther east and 11" 40" to the north. A further distance of 4.09 miles towards Teslin lake brought the trial line to station D which was found 552 feet south of my line. As this station-error is somewhat larger than any found on the Adlin and Teslin section of the line and is to the south, it is probable that the great mass of the isolated Dawson Peaks, lying some distance south of the line, may cause a deflection of the plumb-line at that point.

The boundary between stations C and D is defined by fourteen monuments erected in a distance of thirteen miles and a half.

Several watercourses are crossed by the line in this section of the boundary, but they are unimportant. The character of the country varies from rolling and somewhat rocky hills to broad marshy areas extending up to the western slope of Dawson Peak. The timber is quite scattered in places, but in other places, it is very thick; it is of little value, being mostly small and scrubby, and the greater part dead or partially so. Travelling with horses in this section is very difficult as the country is nearly all swamp and frequently covered with deep moss and hummocks through which the pack animals continually flounder.

During the months of June, July and August, the weather was almost perfect with very little rain, but in September, continuous rain and even snow storms occurred, and by October 9, when we reached Teslin lake, winter set in. The highest peaks in the neighbourhood had for several weeks been covered with fresh snow, and at each storm the snow crept lower and lower till now it had reached the low lands which were covered to a thickness of ten inches, with no chance of its disappearing this season. The survey being now so far advanced, I desired very much to complete it, although I was not well prepared for the cold season and had no intention of wintering in the country. The work that remained to be done was to open the line through the forest on the return trip. This was the most arduous part of the work and the slowest, but with my party reorganized and reinforced by men who had spent several winters in the country and were accustomed to the only kind of food to be obtained here, I felt greatly encouraged to make the attempt to finish the survey. For several days the weather, though cold, kent fair, and we were able to complete the marking of the line between Teslin lake and Dawson Peak and bring our horses and outfit across the mountains before the deep snow rendered this impossible.

The pack animals suffered greatly through the cold weather and the scarcity of good feed, so when near Teslin lake, they were allowed to roam at liberty for a few days along the foot of the western slope of Dawson Peak, while the line was being opened through the forest of balsam, pine and spruce, which thickly covers the country in this vicinity and extends far to the westward.

On the eastern slope of Dawson Peak, and as far east as Teslin lake, nearly all the timber has been inveikiled and the ground in the valley is now covered with a new growth of poplar, birch, and seattered elumps of pine. The lower slopes of the mountain are strewn with windfalls and in places covered with a new side of the mountain, the brush, mainly alders, grows in a dense mass fifteen feet or more in height, and is twisted and intertwined in an indeserbiable tangle. The heavy snows of winter bend these bushes down to the ground and give them, such a set that when the snow disappears in the spring, they stand out from the ground at an andle of about 40°. As may be imagined, it requires considerable effort to get through this brush on a slope so steep as to searcely afford a footing, where one is constantly falling, stumbling or grasping at rose bushes adown to theory eurrant bashes.

As soon as the line had been eleared on both slopes of the mountain. I made the ascent of its northern spur (the one crossed by the boundary) in order to photograph it. It was a remarkably bright day for the season ; the atmosphere was elear and the high snow-covered peaks were clearly defined against the deep blue sky. I succeeded in taking two photographs of Dawson Peak.

Now that work in this vicinity was completed, the survey of the boundary made favourable progress. A few men were kept on the trail breaking a road for the horses through the snow, and shifting eamp, while the others cleared the line and built the monuments. The lakes and morasses were now frozen, and thus greatly facilitated our progress. The cold was uniform and dry, and there was very little wind. It snowed to some extent almost every night; the trees were, therefore, loaded down with suow, which made the work of clearing the line a very disagreeable one. Daylight was very short, and the mornings so forgy that it was difficult to use the transit on the line, and impossible to use the camera to advantage. The survey, however, progressed so well that on December 4, we were back at our main eamp and eache near Proulx lake. One half of the line still remained to be cleared and posted. The outlook was most discouraging. Snow lay very deep on the ground and the grass was becoming poorer and scarcer as the season advanced. The horses began to display alarming signs of weakness, their loads in consequence had to be made lighter. By the time we reached station A, two of our horses had dropped exhausted along the road, and attracted the wolves which from that time on followed us closely and made the nights hideous with their howling.

Our next objective point was Atlin lake, which was reached on December 19, thus bringing to completion the survey of the whole line between Teslin and Atlin lakes.

PHOTOGRAPHIC WORK.

In order to obtain a complete and continuous pictorial record of the work done on the boundary line and to illustrate, in connection with the map, the topographical features of the region traversed, one hundred and fifty photographs were taken.

The photographing, which had to be done only on the tue line, was begun on October 15 and continued to December 19, and was performed under most difficult circumstances. There was generally a total absence of sunshine, and with few exceptions the atmosphere was forgy; on some occasions photographs were taken when light snow was falling.

The time of exposure given to the plates varied according to circumstances from one to eight minutes, with stop 18.

The topography of the section of the boundary has surveyed is in marked contrast to that extending from Lake Bennett to Allin lake. The latter section is very rugged and mountainous, while the former is broken only by low bills, generally timbered to the top, and at no higher altitude than 4.500 for above the sea level. It did not, therefore, offer any great difficulties as to high ranges, but on the other hand, it was covered with a dense forest of pine and spruce intersected by numerous

25-iii-61

1-2 EDWARD VII., A. 1902

morasses lying between the low ridges frequently crossed by the boundary. The largest timber seen averages about eighteen inches in diameter ; it is found only in spots. In a country so little known and with so many natural obstacles and hindrances to travel, the transportation of the requisites of camp life is always a difficult problem to solve. As soon as we started across the country stretching between Atlin and Teslin lakes, many difficulties were encountered. If a sufficient number of pack animals had been at first available, we would have been able to travel more rapidly. As it was, we had at the start to double the trips, for in such a country, no animal can be loaded to his full carrying power. As the country has been very little travelled, no trails or paths of any description have been cut ; we had, therefore, to make our own trails all the way to Teslin lake, which was another cause of delay to us. Over a large portion of the route the ground had to be cleared of fallen timber ; the trails had also to be cut at least six feet wide to allow the pack animals, with their packs, to pass without continually striking them against the trees, thus tearing everything, as well as bruising their backs; besides, the marshes and small lakes made our course very winding at times.

Some time previous to our return to Atlin lake, the extra consumption of food due to the hard work and cold weakter, han dnecessitated my sending men to Atlin City again to procure more supplies for the party, and also grain for the horses. The freighters in bringing these supplies were compelled to use dog-teams, as the ice on the lake was not safe for horses ; on their return trip, the freighters took part of our outfit back to Atlin City.

The survey of the boundary having been completed by December 17, preparations were made for the trip to Atlin City, twenty-five miles from the boundary. It took us four days to ever that distance. On December 24, a portion of the men were paid off, the outfit stored for the present in Atlin, and the horess sold for what they would bring, as it was useless to try to winter them in this country, where oats could only be bought at an exorbitant price, and hay could not be procured at al.

We left Atlin City for Log Cabin on December 26 ; our route, a new one to me, was through Golden Gate, and across Taku Arm, thence by Otter lake to the summit, a distance of 45 miles. Dog teams were used on the trip ; it was my first experience in travelling with dogs. In our train we had six dogs of different breeds pulling a load of 450 pounds, made up of surveying instruments, photographic plates and personal baggage. It being early for winter travel over the lakes, no parties had preceded us for some days, so that we were obliged to break a road, which was difficult, as the crust on the snow did not sustain our weight or that of the loaded sleds. Besides this, several inches of water on the ice caused the under side of the sleds to become loaded with ice, which so increased in bulk and was such a drag through the snow, that frequent stops had to be made to chop it off. From the west end of Otter lake to Log Cabin the country is hilly ; the driver frequently found it necessary to help the dogs over places by pulling on the load himself. The dogs pulled very well together over level ground, but failed to do so in broken or hilly country. We reached Log Cabin on December 31, and from here went to Skagway by rail. We had to wait several days in Skagway while repairs were being made to the steamer Danube, whose hull had been damaged by an iceberg.

On January 22, I arrived in Ottawa, where I have since been preparing my returns.

I have the honour to be, sir,

Your obedient servant,

ARTHUR SAINT CYR, D.L.S.

APPENDIX No. 24 TO THE REPORT OF THE SURVEYOR GENERAL.

EXAMINATION PAPERS OF THE BOARD OF EXAMINERS FOR DOMINION LAND SURVEYORS.

PENMANSHIP AND ORTHOGRAPHY.

Time, 3 hours.

Composition of not less than 200 words; one mark will be deducted for each word less than 200.

Give an outline of the climate of the North-west, and also of the physical characteristics, natural resources and capabilities of the country.

ARITHMETIC.

	Time, 3 hours.	Marks
1.	Add $21\frac{1}{2}$, $35\frac{1}{8}$, $\frac{10\frac{3}{3}}{2\frac{3}{8}}$, and $\frac{7}{1\pi}$.	10
2.	Reduce $\frac{1}{4}$, $\frac{7}{12}$, $\frac{9}{3}$ and $\frac{9}{16}$ to their least common denominator.	10
3.	How many bricks, 8 inches long, 4 inches wide, and 2 inches thick, will it require to make a wall 25 ft. long, 30 ft. high and 30 inches thick ?	10
4.	Multiply 1.735 by 47053.	10
5.	Extract the fourth root of '0076542 by logarithms.	10
6.	Multiply 748, 3:1416, 05679 by logarithms.	10
7.	A bicycle wheel turns 658 times in a mile; what is the diameter of the wheel $?$	10
8.	A sphere of radius r has the same volume as a right cone with base of radius r ; what is its height ?	10
9.	To what power must 1.06 be raised to equal 27	10
10.	A sphere has a radius r , a right cylinder radius r and height r . what must be the relative specific gravity of the two that they weigh alike?	10

85

ALGEBRA.

Time, 3 hours.

	~ .	5x - 1	9x - 5	9x - 7
1.	Solve	7+	11	5

- 2. If A can perform a piece of work in 8 days, and B in 10 days, in what time will they perform it together?
- The sum of two numbers is 5760, and their difference is equal to one-third of the greater; find them.
- 4. Solve the simultaneous equations $x + y + z = a + b + c \ bx + cy + az = cx+ay+bz=ab+bc+ca$.

5.
$$\frac{2x-3}{3x-5} + \frac{3x-5}{2x-3} = \frac{5}{2}$$
 Find x

 Find two numbers such that their sum may be 39, and the sum of their cubes 17199.

7. Simplify
$$\frac{a}{b + \frac{c}{d + e}}$$

- What are eggs a dozen, when two more in a dollar's worth lowers the price one cent per dozen.
- Solve x + y = 4, x⁴ + y⁴ = 82.

PLANE GEOMETRY.

Time, 3 hours, Marks.

1. Construct a triangle equal to a given rectilineal figure.	14
2. To find the side of a square equal to a given rectangle.	14
3. Find the shortest chord which can be drawn through a given point within a circle.	15
4. Draw a common tangent to two given circles.	15
5. In a given circle inscribe an equiangular triangle.	14
6. Describe a regular octagon about a given circle.	14
7. Prove that a circle can be inscribed in any rhombus.	14

Marks.

11

PLANE GEOMETRY.

	Time, 3 hours.	Marks
8.	To find a mean proportional between two given straight lines.	17
9.	The sum of the squares on the sides of a parallelogram is equal to the sum of the squares on the diagonals.	17
10.	Similar triangles are to one another in the duplicate ratio of their homologous sides.	17
11.	The perpendiculars drawn from the angles of a triangle on the opposite sides meet at the same point.	17,
12.	Describe a circle which shall touch a given straight line, and pass through two given points.	17
13.	From a given eirele to cut off a segment containing an angle equal to a given rectilineal angle.	15

PLANE TRIGONOMETRY.

Time		

		Marks.
1.	Give an equivalent expression for $\tan A + \tan B$.	12
2.	Show that $\sin 3 A = 3 \sin A - 4 \sin^3 A$.	12
3.	Deduce formula for finding the two angles, when two sides and the included angle are given.	12
4.	Find value of sin 75°.	12
5.	Show that $\tan (A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$	12
6.	The upper two-thirds of a flag staff breaks off, while one end rests on the stump and the other strikes the ground at the end of the shadow cast by the staff at the preceding noon. What was the altitude of the sum	12
7.	In a triangle ABC we have a = 24 b = 36 $C = 54^{\circ}$.	
	Solve the triangle.	14
8.	The three sides of a triangle are $\bar{\rm S},$ 10, 12 $_7$ find the angle opposite the longest side.	14

DEPARTMENT OF THE INTERIOR

iii

1-2 EDWARD VII., A. 1902 SPHERICAL TRIGONOMETRY. Marks. Time, 3 hours. 1. Prove $\cos a = \cos b \cos c + \sin b \sin c \cos A$. 2. Deduce one of Napier's analogies. 3. Given three sides of a triangle, deduce formula for finding one of the angles. 4. Discuss the ambiguity that may arise when three parts of a triangle are given. Given A = 70° 14', B = 56° 34', a = 52° 10'; find b. Given A == 60°, B == 70° 10', C == 80° 20'; find a. MENSURATION OF SUPERFICIES. Marks. Time, 3 hours. 1. The sides of a triangle are 3.67 chs., 5.43 chs., and 6.28 chs. What 14 is the area ? 2. From the above half an acre, triangular, is cut off by a straight line parallel to the shortest side. Find where the dividing line cuts the two sides. 3. A right cone, radius of base 10 inches, height 15 inches. What is its 14 total surface ? 4. What is the radius of the sphere having the same surface as the above cone ? 5. An equilateral triangle, square and circle have each the same area. What are their relative perimeters ? 6. In a quadrilateral in which the opposite angles are supplements to each other, the sides are 7, 8, 9 and 10 chains respectively. Find the area. 7. Two circles of 5 and 7 inches radius respectively, have their centres 10 inches apart. What is the area common to them ? (LIMITED EXAMINATION.) 1st Paper-Time, 3 hours. Marks. 1. Write a short description of the mineral resources of your province.

2 Given the logarithm of 2=:3010300 and of 3=4771213. What are the logarithms of 16 and 54; also of 45?

88

3.	The product of	two numbers	whose	difference	is (6 equals	17947.	Find	the	
	numbers.									

- 4. $3^{x-1} + 9^{x} = 84$. Find x.
- The difference of the squares of two numbers is 120, and their product is 221. Find the numbers.
- 6. 3a + 2b 2c = 10a + b - c = 34a - 3b + c = 7. Solve.
- 7. Prove geometrically $a^2 = b^2 + c^2 2bc \cos A$.
- Describe an isosceles triangle having each of the angles at the base double of the third angle.
- 9. Find the locus of the middle points of any system of parallel chords in a circle.
- Prove that the angle made by a chord with the tangent at its extremity is equal to the angle in the opposite segment.
- 11. The area of a circle is 50 sq. inches; what is the area of the inscribed hexagon?
- 12. If a straight line be divided into two equal and also into two unequal parts, then the sums of the squares on the two unequal parts equals twice the square on half the line together with twice the square on the line between the points of section.

EXAMINATION FOR ADMISSION AS ARTICLED PUPIL.

(LIMITED EXAMINATION.)

2nd Paper-Time, 3 hours.	Marks.
13. Deduce the general formula $\cos a = \cos b \cos c + \sin b \sin c \cos b$	s.A. 10
14. Give Napier's rules for the solution of spherical right angled tria	ngles. 10
15. In a plane triangle, given two sides and the included angle d formulae for finding the other angles.	educe 10
16. In a spherical triangle, given two sides and the included a deduce formulae for finding the other angles.	angle, 10
17. The volume of a sphere is r ³ inches and is equal to the volume right cone whose height is equal to the diameter of its base. is the radius of the base of the cone ?	
18. The sides of a field are 12, 13, and 15 chains ; what is its area ?	10
19. In a plane triangle $a = 17$, $b = 21$, $C = 72^{\circ}$; find c.	10
20. In a spherical triangle $a = 21^\circ$, $b = 30^\circ$, $c = 43^\circ$; find A.	10
 What quantity of canvas is necessary for a conical tent, the alt of which is 9 feet and radius of base 5 feet. 	itude 10
22. Give formulae for surface of a circle, sphere, cone, cylinder triangle.	and 10

Full Examination for Admission as Surveyor.

	o. of arks,
Time, 3 hours	
1. What is an axiom? Give those generally accepted in Algebra.	
	8
2. Add $ax + by$ and $bx + ay$.	
3. Multiply $(a+b, (a-b), (a^2+ab+b^2)$ and a^2-ab+b^2 together.	8
4. Show that $\frac{a^{a_{n-m}}}{1} = \frac{1}{a^{a_{n-m}}}$. What principles would you infer from this relation?	8
5. Divide $x^m y^n$ by $x^{\frac{m}{2}} - y^{\frac{n}{2}}$; give the first four terms.	8
6. Factor the following: $x^2 + 13x + 42$	
$\begin{array}{c} x^{*} + 1 xx + 4x \\ x^{3} + x^{2}y + xy^{2} + y^{3} \\ \text{and} a^{1e} - b^{1e}. \end{array}$	12
7. Reduce $\frac{(a+b)^4-(a-b)^4}{8ab}$	8
8ab	
8. Add $\frac{a}{a \rightarrow b}$, $\frac{b}{b \rightarrow c}$, $\frac{c}{c \rightarrow d}$.	8
9. Reduce $x^2 - xy + y^2 + \frac{3x^2y + 3xy^2}{x+y}$.	8
10. Multiply $\frac{b^2 x^4 - b^8}{x^2 - 2bx + b^2}$ by $\frac{x^2 - b^2}{bx^2 + b^3}$	8
11. In the composition of a certain quantity of gunpowder, ⁴ / ₂ of the whole plus 10 lbs. was nitre; ¹ / ₂ of the whole minus ⁴ / ₄ lbs. was subphur, and the charcoal was ¹ / ₂ of the nitre minus ² lbs. Find the quantity of the powder, and also the quantity of each of the ingredients.	8
12. A sets off from Montreal to Quebec, and B at the same time from Quebec to Montreal, each travelling at a uniform rate. A reaches Quebee 16 hours, and B reaches Montreal 36 hours after they have met on the road. Find in what time each has performed the journey.	8
PLANE GEOMETRY.	
	arks.
	arks.
Time, 3 hours.	

4.	Prove that the sum of the angles in a triangle is equal to two right angles.	19
5,	Show that if in a circle, centre O_{ϵ} , AR and CD diameters at right angles to each other, CU biscred at $R \in EA$ joined, EF cut off equal to EO_{ϵ} with centre A radius AF a circle be described cutting the other circle in G and H , then is GH the side of an inscribed pentagou in the given circle.	19
6,	The eirele cutting the middle points of the sides of a triangle also passes through the feet of the perpendiculars drawn from the angles to the opposite sides.	19
7.	The perpendiculars drawn from the angles of a triangle to the opposite sides meet in a point.	19
8.	Describe a circle which shall touch a given straight line, and pass through two given points.	19

SOLID GEOMETRY.

Time, 3 hours.	Marks.
 Define right cone, oblique cone, dihedral angle, regular polyhedri similar, solid figures, inclination of a straight line to a play pyramid, cylinder. 	
 If three straight lines meet all at one point, and a straight line sta at right angles to each of them at that point, the three straig lines shall be in one and the same plane. 	
 If two parallel planes be cut by another plane, their common section with it are parallel. 	ons 12
 If a solid angle be contained by three plane angles, any two of the are together greater than the third. 	em 12
5. Within the area of a given triangle lies another triangle ; show th sum of the angles subtended by the sides of the interior triangle any point not in the plane of the triangles is less than the su of the angles subtended at the same point by the sides of the terior triangle.	at um
6. A cylinder five inches long and two inches in diameter is capped one end by the segment of a sphere of radius two and a half inch and at the other by a cone of height two inches. Determine t point where this solid should be cut to make the two pieces	10%,
(1) of equal volume,	

(2) of equal surface

ні

SPHERICAL TRIGONOMETRY.

Time, 3 hours.	Marks.
 To find the fundamental relations between the trigonometrical func- tions of the three sides, and the three angles of any spherical triangle. 	18
2. Give Napier's analogies, and prove Napier's rules for the solution of right-angled spherical triangles.	17
3. Show that $\cos a \sin b = \sin a \cos b \cos C + \sin c \cos A$.	18
4. The sides of a spherical triangle are each 111° 28', find its area.	18
5. In a right-angled spherical triangle the hypotenuse is 44° 35' and one of the other sides 1° 14'; find the two angles.	18
6. In a spherical triangle $a = 83^{\circ}$ 40', $b = 1^{\circ}$ 14', $C = 111^{\circ}$ 13'; find B.	18
 Discuss fully the ambiguity that exists when two sides and an angle opposite one of them are given as data to solve the triangle. 	18

MEASUREMENT OF AREAS AND SUBDIVISION OF LAND.

Time, 3 hours.

 The following are the notes of a survey of a quadrilateral piece of land :---

Station.	Bearings.	Distances.
1	N. 52° 00′ 1	E. 10.63 chains.
2	S. 29° 45′	E. 4·10 "
3	S. 31° 45′ V	N. 769 "
4	N. 61° 00' V	V. 7·13 "

Find the area by the method of Latitudes and Departures, first 'balancing' the courses.

- 2. 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.
- The centre line of a half-mile race track is composed of two parallel tangents, 10 chains apart, joined by two semi-circles. The track is 30 ft. wide; yhat is its area ?
- 4. In a quadrilateral with sides 6, 7, 8 and 9 chains, the angle between 6 and 7 is 60°; what is the area of the figure ?

Marks.

25

25

.....

5.

7. 8. 9.

MEASUREMENT OF AREAS AND SUBDIVISION OF LAND.

	Time, 3 hours.	Marks.
j.	What is the azimuth of the straight line, starting from the N. E. corner of Section 36, T. 12, R. IV., which cuts off one quarter of that section ?	20
5.	In a triangle ABC , $AB \Longrightarrow 13$, $BC \Longrightarrow 11$, $AC \Longrightarrow 8$ chains. On AB , 5 chains from B , the straight line to bisect the area is to start. What is the length of the dividing line l	20
	To divide a triangular field into two equal parts by a line drawn in any given azimuth.	20
	To divide a triangular field into two parts in a given ratio as $\mathbf{m}:\mathbf{n}$ by the shortest possible line.	20
	In a circle, half a mile circumference, what is the length of the chord which cuts off one-quarter of the arca \hat{f}	20

DESCRIPTIONS.

1. A man sells the north-west quarter of Section 12, Township 9, Range 3	
west of 4th Initial Meridian. Make a description of the part sold	20
 Off the above were sold four acres in the form of an equilateral qua- drilateral adjoining the northern and western section lines; make the necessary description for conveyance. 	20
3. Through the above section a railroad runs on a tangent, and for its lands 50 feet on each side of the centre line have been appropriated. The centre line cuts the northern boundary 17 chains and the western boundary of the section 24 chains from the north-west corner of the section. Make a description for a deed of the north- west quarter of the section exclusive of railroad.	20
4. A man buys off the above section a piece of land in form of a paral- lelogram, having a frontage of 100 feet on the morthern boundary of the section and 200 feet on the western boundary. Make a des- cription for a deed of the piece sold.	20
5. Draw up a settler's declaration of occupation.	10
6. Draw up an assumed evidence regarding the position of a lost corner post which it is desired to re-establish.	10

93

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

ASTRONOMY.

Time, 8 hours. Marks. 1. Define declination, right ascension ; solar, mean and sidereal time; parallax, refraction and azimuth. 16 2. Define equation of time. Explain the cause of its variation. A graphical representation may be given. 16 3. In latitude 45° 25' N., longitude 5 02° 50° what is the standard time at western elongation of Polaris on Feb. 20, 1901 ? 16 4. For the same place and date what is the time of sun-rise ? 16 5. For the same place and date when was the observed altitude of the sun's lower limb 10° in the forenoon ? 16 6. For the same place che observed altitude of a star on the prime vertical was 52° 17'; what was the declination of the star ? 16

ASTRONOMY.

Time, 3 hours.

- 7. On an exploratory survey, linear measurements are made with a micrometer, and angular ones with transit; by what astronomic observations can the survey be checked # Explain fully the manner of observing and reducing the observations.
- 8. An observation for time is made on the 2nd Base Line 17-34 ebs. west of the north-east corner of S. 34, Range 4, vest of 37d Initial Meridian, and the error of the mean time chronometer was found to be 15⁴⁰ 27 s show, and a daily gaining rate of 2⁵. S. Ten daya afterwards, on the same base line, after projecting it westward, another observation for time was taken and the chronometer found to be 13⁴⁰ 14⁴⁰ o show. Give position on section line where the latter observation was made.
- 9. On Feb. 20, 1900, in latitude 45° 25′, longitude 5° 02^m 50° the observed altitude in the forenoon of the sun's lower limb was 28° 14′, the horizontal circle reading of its centre 218° 17′, and of the reference object 80° 42′; what is the azimuth of the latter ?
- 10. At the 3rd Initial Meridian on the 4th Base Line, the base line was projected westward at its proper azimuth; at 18-24 west of the north-east corner of Section 32, Range 1, the azimuth was found to be 80° 57° 30°. What was the azimuth error ?
- 11. In question 9 what was the sidereal time of observation ?
- 12. On Dec. 21, 1900, in approximate longitude of 6 30^m W, the observed meridian altitude of the sun's upper limb was 18° 04' 30". What is the latitude of the place of observation ?

Marks.

18

17

18

17

17

17

iii

APPENDIX No. 25 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF THE GEOGRAPHER.

Department of the Interior, Office of Geographer, Ottawa, August 27, 1901,

The Surveyor General, Ottawa.

SIR,-I have the honour to report as follows on the work of my office during the past two years :--

As, prior to my appointment, July 1, 1599, the geographer had no assistants my first endeavours were directed to obtaining an efficient staff and furniture, instruments, &ee, for a well equipped geographical branch, which I am pleased to report, I have been able to do. The offices rented in the Thistle Chambers have already proved inadequate, and the enlarged accommodation in the new building on Metealfo Street will be a welcome relief. At the present time the number of maps and plane is increasing at the rate of about 1,000 per annum, and though the rate will undoubtedly deerease in the near future still the annual increment calls for increased euphoard room for storing them and for systematic arrangement. A card catalogue of the plans is in incontemplation and will be commenced as soon as possible.

Mr. J. E. Chalifour has compiled sheets 1, 2, 3, 4 and part of sheet 7 of the large Dominion map. He has also prepared for the engraver the tracing of the small Dominion map.

Mr. W. J. Graham has compiled sheets 5, 6 and 7 of the large map of Canada, and also profiles of some of the more important railway lines.

Mr. II. A. Baine was appointed May 13 of the current year, and has compiled four maps for the new Atlas of Western Canada now in the press.

Mr. H. Taehé has prepared most of the eards for the Dictionary of Altitudes, and has also been employed in the compilation and reduction of plans for the large Dominion map.

Mr. G. E. Dumouchel has been employed in the preparation of reductions for the Dominiou map.

Mr, N. W. Sharon was appointed June 18, and has been tracing MSS, plans on file in other departments.

Mrs. D. E. Waine was transferred from the secretary's branch, May 2, and has since been employed as stenographer and typewriter. She has also completed the eard index for the Dictionary of Altitudes.

In view of the many coessions on which a general map of the Dominion or special maps of provinces or other districts are required in connection with the reports of the various departments it was decided to commence a trustworthy compilation of all authenitic geographical data, and subsequently maintain them by the addition of the results of new surveys and explorations. These maps will be available at any time as a basis on which to represent railways, telegraph lines, geological features, economic resources or other facts which it is desired specially to illustrate.

It has up to the present time, here the usual practice, when maps of the kind just alluded to have been required, to have special compilations made and maps drawn for the purpose—a mode of procedure not only causing loss of time but resulting also in the needless expenditure of considerable sums of money while the results, from a geographical point of tiwe, have been far from satisfactors. Old errors have in too name

1-2 EDWARD VII., A. 1902

instances, been perpetuated while recent surveys which might, very advantageously, have been utilised have frequently been ignored. The time spent in reproducing, on the new scale, former compilations is to a large extent wasted and the labour and cost thus involved might much better have been expended on the fundamental revision of the longitudes, latitudes and geographical features which, if properly carried out, would—over extensive distribution—there thave a second provided the second provided that the second pr

The difficulty met with in the compilation of such maps arises largely from the number of sources from which information must be sought, rendering it practically impossible for the compiler of a given map-probably pressed to complete his work at a certain date-to consider, collate and familiarize himself with all. Thus, in the North-west Territories, within a comparatively limited district, surveys made under the following branches may have to be included :- Topographical Surveys Branch, Geological Survey, Timber and Mines Branch, Department of Railways, Indian Department, &c. In the older provinces this is additionally complicated by surveys under provincial government auspices, surveys by the Public Works Department and railway companies, charts of the coast by the Admiralty and Department of Marine and other minor surveys not necessary to particularise, all of which have to be consulted for recent additions and changes before maps with any claim to represent the actual state of geographical information can be drawn. It is therefore evident that the construction of these standard maps will not only result in greatly improving the character of those now available, but will also, in so far as the government's departments are concorned, be the means of effecting a substantial economy.

The Standard General map consists of 8 sheets, 25 inches by 26, making, when joined together, a map S_2^1 feet by 4_2^1 . It is now nearly completed, and the last instalment of 'copy' should be ready by the end of August.

The Standard Topographical map will consist of about 50 sheets, 26 inches by 19, to include 3 degrees of latitude and the same of longitude, on a scale of 8 miles to an inch. These sheets, like the General map, will be engraved on copper, that alterations and connections may be made at any time by 'beating up' portions of the surface and re-engraving them and from which 'transfers' can at any time be obtained for reproduction by lithography. While in its essence chiefly topographical, it will show international, provincial, county, township and other fixed boundaries of electoral and military districts, with other such lines likely to be altered from time to time, will be inserted, when required, on the transfers. Special information, such as colonization and miling areas, Indian reserves, timber limits or tracts, geology, postal routes, &c., can be added on the maps-for the Interior, Geological Survey, Post Office Department, &c. Railway lines, while distinctly indicated, will not be drawn so heavily as to interfere with the subsequent addition of coloured lines for special malway or postal maps.

It will be compiled as far as possible from the original sources, and the range of inquiry should not be confined to the departments of Ottawa, but should be extended to the Provincial Governments, Colonial and Hudson's Bay Company's offices. No effort will be spared to make the map a standard work, designed to last for the next 50 years.

As the compilation progresses it will be placed in the hands of the engraver, sheet by sheet, that the departments and general public may have the earliest possible benefit to be derived from their publication.

The compilation of these maps will also be utilized in connection with the Geographic Board to revise and officially fix the nomenclature of places throughout the Dominion. Thus far over 2,000 names included in the General map have been submitted to the board.

The attached index map shows the outlines of the sheets of the Standard Topographical and General maps.

In connection with the foregoing, I beg to bring under your notice the recommendation of the Civil Service Commission of 1892, as follows :--

*Your commissioners find that maps for various purposes are prepared in several departments, and by the evidence produced, it is shown that differences frequently occur in maps of the same district when issued by more than one department. To prevent this, and to promote accuracy and security, it is recommended that a special cartographical branch be created, and that the duty of this branch of the public services should be to issue reliable maps of the various parts of the Dominion."

Such a cartographic branch would undoubtedly ensure greater efficiency and comomy, and do away with the present wasteful method of duplicating and triplicating maps and plans. It could be carried out by amalgamating the present staffs, thus avoiding any increased expenditure, and should, of course, be under this department.

As the hast edition (1594) of the map of Manitoba and North-west T-critories is nearly exhaused, and as the numerous surveys since the date of the original publication had made extensive changes in the topography, a new map was commenced. It is in 3 sheets, scale 124 miles to 1 inch, and being eugraved on copper. The castern sheet and greater portion of the middle sheet are engraved, but owing to the pressure of work on the large map of the Dominion, the work has proceeded somewhat slowly. With the end of the work on the latter in sight, however, it is hoped to push it to completion at an early date. To meet the demand of a map of Canada in a handy form, a map of the Dominion on a seale of 100 miles to 1 inch, 30 inches by 17, was completed early in 1990, and has gone through three editions, exclusive of the special editions for the immigration handbooks. Special maps of Athabasaa, Saskatchewan, Alberta and Northern (New) Ontario have been prepared for the new atlas of Western Canada now in the press.

Supplementary to my report on 'Altitudes' in the Dominion of Canada,' now in the press, I have compiled a 'Dictionary of Altitudes,' the railway stations, lakes, mountains, &c., being arranged alphabetically by provinces. This will be a more convenient form for general use, and will be accompanied by a relief map of Canada on a fairly large scale.

The following maps have been published to date :---

Dominion of Canada, scale 100 miles to 1 inch, 36 inches by 17 inches, preliminary edition. Out of print.

Dominion of Canada, map showing water powers, scale 100 miles to 1 inch.

Dominion of Canada, 3rd edition, scale 100 miles to 1 inch.

Map showing area under crop in Manitoba and North-west Territories in 1899, scale 100 miles to 1 inch, 10⁴ inches by 7 inches.

Map showing total acreage of land in Manitoba and the North-west Territories, homesteaded, sold, transferred to railway and colonization companies, &c., to December 31, 1890. Scale 100 miles to 1 inch. 100 inches by 7 inches.

The following maps are in the hands of the engraver :---

Dominion of Canada, Newfoundland and adjoining portions of the United States, scale 35 miles to 1 inch, 8 sheets, each 26 inches by 25 inches.

Manitoba and North-west Territorics, scale 121 miles to 1 inch, 3 sheets, each 36 inches by 25 inches.

I have the honour to be, sir,

Your obcdient servant,

JAMES WHITE, Geographer.

APPENDIX No. 26 TO THE REPORT OF THE SURVEYOR GENERAL.

REPORT OF J. W. TYRRELL, D.L.S., EXPLORATORY SURVEY BETWEEN GREAT SLAVE LAKE AND HUDSON BAY, DISTRICTS OF MACKENZIE AND KEEWATIN.

HAMILTON, ONT., August 30, 1901.

E. Deville, Esq., Surveyor General, Department of Interior, Ottawa, Canada.

Sus,-Herewith I have the honour to submit the report of my exploratory survey of 1900, extending from Great Slave lake to Hudson bay, in the districts of Mackenzie and Keewatin.

INTRODUCTORY.

In accordance with your instructions, dated January 20, 1900, I have made an exploration of the country between Great Slave lake and Hudson bay, in the districts of Mackenzie and Keewatin, and have now prepared a large map, comprising twentytwo sheets, 52×40 inches, on a scale of one inch to one statute mile, of the routes covered by our expedition.

In all seventeen hundred and twenty-nine miles of survey were accomplished, and in the performance of this, four thousand six hundred miles were travelled with sleds and cances.

Two hundred photographs (5 x 7) were obtained along our route.

A large number of astronomical and magnetic observations were obtained. A complete meteorological record was kept throughout the journey. As complete a botanical collection as could be made in the barren grounds was obtained, and as far as possible notes were kept and specimens procured of the rock formations and minerals met with at various points. If indeed any part of your instructions has not been fully carried out, it has only been because of my inability to do more within the time devoted to the work, but I trust that my efforts may meet with your approval.

HISTORICAL.

Before proceeding with the report of my own discoveries, I think it will be well to present a brief collection of such scattered fragments of information as have been available to me from the publications of earlier explorers, regarding the district of which information is required.

Several explorers have from time to time touched upon the area in question, and each one has contributed more or less of interest and value.

Some accounts are of interest because of their absurd inaccuracies, some because of their close approximation to what turns out to be fact, and others for various reasons of their own.

DISCOVERY OF CHESTERFIELD INLET.

The earliest discovery of any part of our route seems to have been that of Chesterfield inlet, in the year 1747, by the officers of the *Dobs and California*—two ships of 180 and 140 tons respectively, sent out from England in 1746 by the Northwest Assocision for the discovery of the northwest passage. The officers reported 'that they

found an inlet in the latitude of 64° north and in the longitude of 32° east from Marba island which was three or four leagues wide at its entrance, but upon their sailing eight leagues up, it increased to six or seven leagues wide. That their course so far was X.N.W. by compass, but then it began to turn more to the westward ; that sailing ten leagues higher it grew narrower by degrees ill it became but four leagues wide ; that notwithstanding they could perceive shores open again, they were discouraced from proceeding further because the water from being sail, transparent, and deep with steep shores, and strong eurents, grew fresher, thicker and shallower at that height."

From the above account it would appear that their discoveries of the inlet ascended to the neighbourhood of Centre island, though this is somewhat uncertain since their statements of distances are very inaccurate, the width of the inlet, for instance, as seen by them being at no place more than twelve miles wide instead of seven leagues (twenty-one miles).

CAPTAIN CHRISTOPHER.

In the year 1761 Chesterfield inlet was again entered by Captain Christopher, who ascended it for a distance of 100 miles, when finding the waters becoming fresh he turned back.

The following year, he, with the sloop *Churchill*, accompanied by Mr. Morton in a cutter, returned to the inlet and ascended it to Baker lake, at the west end of which they saw the mouth of a river.

On Christopher's chart, opposite the mouth of this river these words are written : 'A small river, full of falls and shoals, not water enough for a boat.' †

This note, it may be mentioned in passing, is very much at variance with the facts as now disclosed, and may be best explained by assuming that Christopher never saw the mouth of the Thelon or Doobaunt river, but got into the mouth of some smaller stream.

SAMUEL HEARNE.

The next expedition, in order of time, affording any information regarding the region in question, were those famous journeys made by Samuel Hearne in the years 1769-70-17-22, the account of which was published by himself in 1795.

His narrative throughout is an exceedingly interesting one, although not noted for geographical accuracy. It is valuable rather as an early history of a remote region of this country, and I will take the liberty of here quoting from his book certain parts having direct reference to portions of my route of exploration.

Writing of his third journey, page 87, Hearne says :

⁴We still continued our course to the west and west by south, and on the 8th of April (1771) arrived at a small lake called ‡Thelewey-aza-yeth, but with what propriety it is so called I cannot discover, for the meaning of Thelewey-aza-yeth is Little Fish Hill, probably so called from a high hill which stands on a long point near the west end of the lake.

'On an island in this lake we pitched our tents, and the Indians finding deer very numerous determined to stay here some time in order to dry and pound meat to take with us. for they well knew by the season of the year, that the deer were then drawing out to the barren grounds, and as the Indians proposed to walk due north on leaving this lake it was uncertain when we should meet with any more.

*Report of Doobaunt, Kazan and Ferguson rivers, by J. Burr Tyrrell, Geol. Survey of Canada, 1896. † Report of Doobaunt, Kazan and Ferguson rivers, by J. Burr Tyrrell, Geological

f Report of Doobaunt, Kazan and Ferguson rivers, by J. Burr Tyrrell, Geological Survey of Canada, 1896.

\$ A lake on the upper portion of the Thelon river.

25—iii—71

⁴ Agreeably to the Indians' proposal we remained at Thelewey-aza-yeth ten days, during which time my companions were busily employed (at their intervals from hunting) in preparing small staves of birch wood about 14 inches square and 7 or 8 feet long. These serve as tent poles all the summer while on the barren grounds, and as the fall advances are converted into anow-shoce frames for winter use.

⁶ Birch rind, together with timbers and other wood work for building cances, were also another object of the Indians' attention while at this place, but as the cances were not to be set up till our arrival at Clowey (which was many miles distant), all the wood work was reduced to its proper size for the purpose of making it light for carriage.

⁴As to myself I had little to do except to make a few observations for determining the latitude, bringing up my journal, and falling up my chart to the present time. I found the latitude of this place 61² 30′ north, and its longitude, by my account, 19⁵ west of Prince of Wales Fort. Having a good stock of dried provisions and most of the meessary work for cances all ready by the 18th, we moved about 9 or 10 miles to the north-north-west, and there came to a tent of Northern Indians Watowere tenting on the north side of Thelewey-aza river.^{*} From these Indians Matonabbee purchased another wife.

⁴On the 23rd, as I hinted above, we began to move forward and to shape our course nearly north, but the weather was in general so hot, and so much snow had in consequence been melted, as made it bad walking in snow-shoes, and such exceeding heavy hauling, that it was the 3rd of May before we could arrive at Clowy--though the distance was not have eightry-free miles from Thelewey-az-veth.

'In our way we crossed part of two small lakes, called Tittameg lake and Scartack lake.

'The Lake Clowey is not much more than twelve miles broad in the widest part. A small river which runs into it on the west side is said by the Indians to join the "Athapuscow" lake,[†]

⁴ Besides the Grand river, already mentioned, it there are several others of less note which empty themselves into the great Athapuscow lake.³⁸ There are also several small rivers and crecks on the north-east side of the lake, that earry off the superfluous waters, some of which, after a variety of windings through the barren grounds to the north of Churchill river, are lost in the marshes and low grounds, whilst others by means of many small channels and rivulets are discharged into other rivers and lakes, and at last, doubles find their way into Hudson bay.¹⁴

Later in his narrative, Hearne says :

⁴ From the 13th to the 24th of February we walked along a small river that emptics itself into the Take Clowey, near the part where we built cances in Max, one thousand seven hundred and seventy-one. This little river is that which we mentioned in the former part of this journal as having communicated with the Athenpuscow lake; but from appearances, it is of no consequence whence it takes its rise, or where it empties itself, as one-half of its nearly dry three-fourths of the year. The intervening ponds, however, having sufficient depth of water, are, we may suppose, favourable situations for beaver, as many of their houses are to be found in those parts.

'The little river lately mentioned, as well as the adjacent lakes and ponds, being well stocked with beavers, and the land abounding with moose and buffalo, we were induced to make but slow progress in our journey.

† Athapuscow lake is what we now know as Great Slave lake, and is separated from Clowey by the height of land.

‡ Slave river.

tt A remarkable example of imagination. In order to perform such a feat, the waters of Lake Athapuscow would have to cross an elevation of 800 feet.

^{*}One of the upper branches of Thelon river.

^{**} Great Slave lake.

⁴ Many days were spent in hunting, feasting and drying a large quantity of flesh to take with us, particularly that of the buffalo, for my companions knew by experience that a few days walk to the eastward of our present situation would bring us to a part where we should not see any of those animals.⁴

In connection with the present report, the following quotation from Hearne is, to any mind, of great interest since it undoubtedly refers to the valley of the lower Thelon river. He is describing a remote Indian settlement from which a wandering band had come, and writes as follows :--

⁴ From the best accounts that I could collect, the latitude of this place must be about 63° or 63° at least ; the longitude is very uncertain. From my own experience I can affirm that it is some hundreds of miles both from the senside and the main woods to the westward.

[•] Few of the trading Northern Indians have visited this place, but those who have give a pleasing description of it, all agreeing that it is situated on the banks of a river which has communication with several fine lakes. As the current sets to the north-leastward, it empities itself, in all probability, into some part of Huskon bay, and, from the latitude, no part seems more likely for this communication than Baker's lake, at the head of Chesterfield inlet. This, however, is more conjecture, nor is it of any consequence as navigation on any of the rivers in those parts is not only impracticable, but would be also unprofitable, as they do not lead into a country that produces any-thing for trade, or that contains any inhabitants worth visiting.

⁵ The accounts given of this place, and the manner of life of its inhabitants, would, if related at full length, fill a volume; let it suffice to observe that the situation is said to be romerikable for every kind of game that the barren grounds produce at the different seasons of the year, but the continuance of the game with them is in general, uncertain, except that of fish and partridges.

⁴That being the case, the few who compose this little commonwealth, are by long cautom, and the constant example of their forerfahrers, possessed of a provident turn of mind, with a degree of frugality unknown to overy other tribe of Indians in this country except the Esquimax. Deer is sail to visit this part of the country in astonishing numbers, both in spring and autumn, of which circumstance the inhabitants avail themselves by killing and drying as much of their lesch as possible, particularly fucks and swars visit here in great plent varing their migration, both in the spring and fall, and by much art, joined to an unsurmountable patience, are caught in considerable numbers in sances, and without doubt make a very pleasing channe of food. It is also reported, though I confess I doubt the truth of it, that a remarkable species of partridge, as large as English fowls, are found in the apring the country only.

Those, as well as the common partridge it is said, are killed in considerable numbers with snares, as well as with bows and arrows.

⁴ The rivers and lakes near the little forest where the family above mentioned had fixed their abode, abounded with fine fish, particularly trout and barble which are easily eaught, the former with hocks, and the latter in nets. In fact. I have not seen or heard of any part of this country which seems to possess half the advantages requisite for a constant residence, that are ascribed to this little spot. The descendants, however, of the present inhabitants must in time evacuate it for want of wood, which is of as observed the Esquimax, must cost many years to replace. It may probably be thought strange that any part of a community, apparently so commolously situated and happy within themselves should be found at to creat a distance from the rest of their tibes, and indeed nothing but necessity could possibly have ured them to undertake a journey of so many hundred miles as they have done your of sufficient size, or perlams none of any size, this party had come so far to the westward to procure birch rind for making two cances and some of the fungus that grows on the outside of the birch tree, which is used by all the Indians in those parts for indee?

Until the present time, the whereabouts of this northern 'Garden of Eden,' so well described, though never visited, by Hearne, has been a matter of mystery.

No such productive valley or flourishing settlement has been known to exist in the barren lands, and Hearne's story has thus seemed but an Indian fable.

The investigations of the present expedition have, however, established both the existence and location of such an oasis, but, as predicted by Hearne, the primitive settlers have long since departed, although for some other reasons than lack of fuel. The writer'd accriptions of the land of these early settlers will appear later in this report.

CAPTAIN DUNCAN.

The next point of attack tending towards the exploration of our route was from the eastward, when in 1792 Capitain Charles Duncan entered Chesterfield inlet, ascended to Baker lake and anchored at its western extremity in the mouth of the Thelon or Doobaunt river.

Thence 'he followed the course of the river by land until he found it came from the northward, in which direction he traced it nearly thirty miles, when, being convinced that it must be the drain of some lake in that line, and not an outlet from the Doobant; the returned, being satisfied that this following if further could not lead to any useful discovery. Had its course been from the westward, he would not have left it, he says, until he had seen its source.¹

Had Captain Duncan pushed his investigations farther, he would have discovered that the river did come from the westward, and not only so but that through it the 'Doobant' finds its outlet.

SIR GEORGE BACK.

Coming down to the explorations of the past century, the first, and that furnishing most information in regard to the divide between Great Slave lake and Hudson bay, is that made by Sir George Back, during the years 1583-34-35, the winters of which he spent at Old Fort Reliance, a beautiful spot at the north-east extremity of Great Slave lake. His explorations extended over parts of Great Slave, Arillery, Clinton-Colden, and Aylmer lakes as well as the whole of Back's river, and from the Indians Back obtained some interesting information regarding the route followed by the writer.

The following notes and quotations are taken from 'Captain Back's Arctic Land Expedition' :---

He reports 4 feet of ice along the shore of Artillery lake on the 15th of June, 1834, and having travelled over it with his slebt on that date. Under date of the 19th of June, on Clinton-Colden lake, he mentions the ice as becoming treacherous and rotten in places, and covered by new snow. Nevertheless he was able to continue his sleb journey across Aylmer lake on June the 26th, and on the Back river until July 2nd, after which he was able to travel by bacit in open water.

In making his first trip out to Artillery and Clinton-Colden lakes, Back travelled by way of the Hoarfrost river, but on his return to winter quarters at Fort Reliance in the autumn, he made an attempt to descend the 'Ah-nel-dezeth'-Lockhart river, and thus describes his adventures.

^cThe river by which it (Artillery lake) discharges itself into Great Slave lake, began its descent by an ugly rapid, too hazardous to run and yet scaredy so dangerous as to induce us to make a portage of. We compromised, therefore, by lowering half the way and carrying the rest. A second rapid was run, but we had not calculated on the amazing force of so confined a torrent, and just as we gained the eddy, the old cance got a twist which nearly broke it in two. Another clump of pines induced me to land, and while the men examined the quality of the timber I obtained a set of

^{*} Report of Doobaunt, Kazan and Ferguson rivers, by J. Burr Tyrell. Geol. Survey of Canada, 1896.

[‡] A large lake discovered by Hearne.

sights, which gave the latitude 62° 53' 26"N., longitude 108 28' 24" west, and variation 38° 42' east.

⁴ The wood was in no way better than that seen in the early part of the morning, and we pushed from the bank with the intention of going earefull down the stream, though a look of indexision, if not of positive apprehension, betokened some inward working in the steersman's mind, for which I was utterly unable to account, until informed that for days past Mawfelly had been talking about the dangers he did not know in the Ah-held-desy. The Indians, he said, never attempted it in any manner, either up or down, and as he was not in a hurry to die, though he was willing to walk on the rocks, he would not on any account unit in the cance. I shamed him out of this unmanly resolution, and when he and his companion had indulged in a laugh among themselves, we alipt down another rapid. However, on trying the fourth, the steersman became so unnerved as to lose all self-command, and by not eco-operating with De Charlöt, fixed us against a sharp rock that cut the cance.

¹ Happily it wirled around and floated till we reached the shore. The man's confidence was gone, and rather than incur any more such risk in the fonning rapids before us, I abandoned an attempt which the Indian persisted in declaring was impossible, and the trusty and battered cance being left with a few other things in cache, cach man was ladened with a weight of one hundred and twenty pounds, and began to pick his way up the steep and irregular sides of the hils.

⁴ I took leave, therefore, of the Ah-hel-dessy and had abundant cause to rejoice at having done so, for the whole distance to the mountain appeared to be an unbroken succession of rapids, which must have stopped us, for whether passable or not in a boat, they were evidently impractical in a cance.

[•]We had expected that our route would have been by a small river about a mile to the eastward, invariably used by the Chippewrans or Yellowknives, whenever the proceeded in that direction, and as it may be supposed, quite unknown to me until that moment. On subsequent inspection, however, it was found to be too shallow for eances, being merely the outlet of some small lakes, and the waters of a picturesque fall from four to eight feet distant. There were many small India cances stowed under the branches of the willows, and as it was the lowest and most favourable route to the barren lands, it was preferred, it seems, to those by which I had passed.

Leaving Fort Reliance on June 7 of the following year, and portaging aeross to Artillery lake, Back writes as follows :---

⁴ Taking a northerly direction through the woods, we soon got into a succession of swamps, then ascended steep rocks, and subsequently gained a sight of the Ah-heldessy, which seems in that part to be navigable, though from the noise it was certain a heavy fall⁸ was not far distant.

⁴ We passed many sand-hills variegated by the arbutus plant, called by the traders "Sac-a-commis," "Cranbury," or "Crowberry." These hills were generally hemmed in by broken elifs of red feldspar and barren granite rocks, with here and there thick masses of snow filling up their chasms, or sloping from the lower parts of vertical precipies. A few old tracks of deer were seen.

⁴Accelivitous rocks intereneed between the swamps, and in going over their summits, the Ah-hel-desay was frequently seen working its rapid course along the base of the mountain range which sometimes assumed the wildest character. The space from the spot where I had left the cance last year to the first rapid out of Artillery lake was quite open, and immense quantities of ice were floating down the stream.

⁴ The temperature was full 10 degrees colder than at the house; large masses of ice and snow encumbered the banks or borders of the rocks. and the ice on the lake had not decayed nearly so much as was observed at the same season of the year in 1821 at Point lake, more than two degrees to the north.

' In the evening we reached the bay, and found that the earpenters had just completed the boats At 3.30 a.m. of June 10, the large boat was

· Parry's falls.

dragged about three-quarters of a mile through a half dry swamp, and over some rocks to Artillery lake, where she was placed firmly on runners plated with iron and drawn over the ice by two men and six fine dogs.

⁴ The runners appeared to slide easily, and for half an hour a brisk pace was kept up. By degrees, however, it slackened on account of the badness of the ice, which was literally a bed of angular spikes, of many shapes and sizes, but all so sharp as to make walking a most painful and laborious operation.²

Upon his return journey, after exploring the Back river, Sir George writes as follows :---

⁴About noon on the 24th (September) we got to the Ah-hel-dessy, where we were greeted with the sight of berries. . . . The descent of this small but abouniable river was a succession of running rapids, making portages and lowering down ease-ades, and much time was occupied in previous examination, without which precaution we dared not stir a yard. Still the rapids increased in number and difficulty, until at last a deep and perpendicular fall[®] rushing between mountainous rocks into a vast chasm stopped all further progress. The steersman, unwilling to be arrested even by such obstacles, went some distance farther, but soon returned with an account of more falls and cascades.

⁴ To convey the boat over so rugged and mountainous a country, most of the declivities of which were coated with thin ice, and the whole hidden with snow, so as to render mere walking impossible, and though it was annoying to be forced to leave her, yet as there was no alternative, she was safely hauled up among some willows and secured.

⁴Each of the crew being laden with a piece weighing 75 pounds, we began our march to the Fort across the mountains now entirely covered with snow four inches deep. The small lakes and swamps were also frozen hard enough to bear a passage across.⁷

PARRY'S FALLS.

⁴We had not proceeded more than six or seven miles when, observing the spray rising from another fall, we were induced to visit it, and were well consoled for having left the boat where she was.

' From the only point at which the greater part of it was visible, we could distinguish the river coming sharp round a rock, and falling into an upper basin almost concealed by intervening rocks, whence it broke in one vast sheet into a chasm between four and five hundred feet deep, yet in appearance so narrow that we fancied we could almost step across it. Out of this the spray rose in misty columns, several hundred feet above our heads, but as it was impossible to see the main fall from the side on which we were, in the following spring I paid a second visit to it, approaching from the western bank. The road to it which I travelled in snow-shoes, was fatiguing in the extreme, and scarcely less dangerous, for to say nothing of the steep ascents, fissures in the rocks, and deep snow in the valleys, we had sometimes to creep along the narrow shelves of precipices, slippery with the frozen mist that fell on them. But it was a sight which well repaid any risk. My first impression was of a strong resemblance to an iceberg in Smurenvurg Harbour, Spitzbergen. The whole face of the rocks forming the chasm was entirely coated with blue, green and white ice, in thousands of pendent icicles, and there were, moreover, caverns, fissures and overhanging ledges in all imaginable variety of forms, so curious and beautiful as to surpass anything of which I had ever heard or read. The immediate approach was extremely hazardous, nor could we obtain a perfect view of the lower fall, in consequence of the projection of the western cliffs. At the lowest position which we were able to attain we were still more than one hundred feet above the level of the bed of the river be-

* Harvey falls, 50 feet high.

neath, and this instead of being narrow enough to step across, as it had seemed from the opposite height, was found to be at least two hundred feet wide.

⁴The colour of the water varied from a very light to a very dark green, and the spray, which spread a dimness above, was thrown up in clouds of light gray. Niagara, Wilberforce Falls in Hood's river, the Falls of Kakabikka, near Lake Superior, the Swiss or Italian falls, although they may each "clarm the eye with dread," are not to be compared to this for splendor of effect.

⁴It was the most imposing spectacle I had ever winnessed, and as its berg-like appearance brought to mind associations of another seene. I bestowed upon it the name of our celebrated navigator, Sir Edward Parry, and called it "Parry's Falls."*

Besides the above personal knowledge published by Back, concerning the Ah-heldessy and Artillery lake, he gives us some information gleaned from the Indians, regarding the Thelon river and route to the same.

The following is a copy of an Indian sketch map made for him, illustrating routes from Great Slave lake to Teh-lon-disith.⁺

FAC - SIMILE

INDIAN MAP

TAKEN FROM

BACK'S BOOK, PAGE 85.



* These truly picturesques liftle falls are wortby of note, but how Back advantable in dimensions, I am at a loss to discover. The total measured height of the falls is elisitythree feet, and width from twenty to fifty feet. Photographs were obtained by me from both banks.

* Thelon river.

iii

In connection with this subject, Back says, in describing an interview with a party of Slave lake Indians, whose chief was named 'Le camrade de Mandeville,' the information thus collected was made intelligible to me by means of an outline of the north-castern country, drawn by the Camarade.

⁴ In this sketch the Thlew-ee-chok and Teh-lon were represented as maintaining a nearly parallel direction E. N. E. to the sea, though where that sea was, whether in some of the deep inlets of Hudson bay or as I fervently hoped, more directly north towards Point Turnagain, it was altogether beyond his knowledge to declare.

'In one point alone were they positive and unanimous, and that was, the superiority and many advantages of the Teh-lon over the Thlew-ee-chok. The former was described as being a broad and noble stream, decorated on either bank with tall pine and birch, and flowing in uninterrupted tranquillity to its journey's end.

⁴They also affirm, agreeing in this respect with the information which had previously been given me at Lake Winniper, that the distance between the mouth of the rivers was inconsiderable, and concluded by saying that if the great chief was determined on going to the Thlew-ec-ohok.

C. . . . "And why," said they, "should the chief wish to go there when the Teh-lon is not only nearer, but affords him so many more advantages, where he will find musk ox, moose, and reindeer, wood, fish and animals wherewith to pass a comfortable winter l^{**}

In passing through Clinton-Colden lake, Back states that 'east and west it was indented with deep inlets and bays. One of them to the right, presenting a clear horizon, led, as Mawfelly believed, to the Teh-lon.

⁶ Subsequently several Indians who had been there, informed me that by making a portage from the eastern extremity of a deep bay, they got to a small lake and from thence by another portage to a large one; that this discharged itself by a river into the north-east end of a very long but narrow lake, the southern termination of which was about half way between that point and Slave lake.

⁴ To the east they said it was connected by a short line of rapids, with a lake of singular shape, which, by means of a river scentene miles long, communicated with the Teh-lon at a mean distance from our position of about eighty miles. As to the course of the principal river itself, little seemed to be accurately known, for the Indians never ponetrate far, perhaps not more than twenty miles, beyond the part which has just been described. Then it was said to maintain a uniform direction towards the north-east².

These statements, moreover, corroborated the previous opinions given me of the Tch-lon, which was said to flow through a low marshy tract, connected with an estuary, opening to the sea by a narrow channel, the shores of which were lined by Escuimaux.

Any indication of the existence of the Teh-lon or Thelon river on our old maps has been derived from the above Indian descriptions collected by Back.

DR. JOHN RAE.

During the year 1853, when searching for traces of the ill-fated Franklin expedition, Dr. John Rae added somewhat to our geographical knowledge of Chesterfield inlet, and more especially of Qucich river, which he ascended some distance in the hope of being able to cross to the Back river.

STEWART AND ANDERSON.

Stewart and Anderson, in 1956, retraced much of the ground covered by Back, but beyond the information quoted above, there remained as recently as 1893, an area of over two hundred thousand square miles entirely unknown.

WARBURTON PIKE.

Hence we read, page 170, of 'The Barren Grounds' by Warburton Piles, 1892 :---'Why has all exploration in the barren ground ceased t No more is known of the the country than was discovered by Franklin and Back sixty years ago in their short summer journeys, and the expeditions sort out in search of the former in the fittisa. There are many thousands of square miles on which the foot of white man has never stepped.'

¹Upon his return journey from the Back river in 1800, Pike obtained the following information from an Indian, known as Pierre the Fool' in regard to the country to the asatward of Clinton-Colden lake :— 'He told us that there were fewer lakes in that direction than in any other part of the barren grounds that he had visited, but le was always obliged to take a small cance with him to cross a big stream running in a southerly direction, three days easy travel from Clinton-Colden lake.

'Once when he had pushed out farther than usual, he had seen smoke in the distance, and came upon a camp that the Expainanx from Hudson bay had just left; they had been cutting wood for their sleighs in a clump of well grown pines, and Pierre, who shared the dread which every Yellow Knife has of the coast tribes, had been afraid to follow them.' From his own observations, Pike further writes :-- 'Lockhart triver, on leaving Artiller y lake, becomes a wild torrent, falling several hundred feet in twenty miles and is quite useless for navigation, so we had to make use of a chain of lakes, eight in number, lying to the south of the stream.

'This is by far the prettiest part of the country that I saw in the north, and it was looking its best under the bright sumshine that continued until we reached the fort. Scattered timber, spruce and birch clothed the sloping banks down to the sandy shores of the lakes ; herries of many kinds grew in profusion ; the portages were short and down hill; and caribou were walking the ridges and a wimming the lakes in every direction. A perfect northern fairyland it was, and it seemed hard to believe that winter and want could ever penetrate here.'

J. BURR TYRRELL.

No sconer had Pike given expression to his query : 'Why has all exploration in the barren ground, cessed 'I 'than the work was resumed by the Geological Survey Department, and J. Burr Tyrrell, accompanied by the writer, was commissioned to explore the territory to the northe-east of Lake Athabasea. This work was carried on during the year 1893 and 1894, and has been fully reported in the Annual Report of Geological Survey of Canada, 1896, so that without quoting extracts, it will suffice to state that the unexplored territory of over two bundred thousand square miles west of Hudson bay, was in those two years reduced by more than one-half, viz., from the walley of the Doolsaunt iver to the coast of Hudson bay. The country king to the west of the Doolsaunt, and comprising an area of about ninety thousand miles, renained shrouded in mystery.

OUR JOURNEY OUT.

Arrangements having been completed for our expedition, on January 31, 1900, I was joined by my two assistants, C. C. Fairchild, O.L.S., of Simoce, Oruz, and Archdencon Lofthouse, formerly of Fort Churchill, Hudson bay, and we proceeded to the west. At Winnipeg we picked up two half-breed voyageurs, named Robert Bear and John Kipling, from the St. Peter's reserve; and as train dogs were reported searce in the north country, eight of them were also procured here, and shipped to Edmonton, where we ourselves arrived at 11.30 on the night of February 8, in a temperature of 45° below zero.

At Edmonton we were joined by three more of our men, Percy Acres, cook, and Pierre French and Harry Monette, expert Iroquois canoemen.

We thus far formed a party of eight in all, with as many dogs.

On account of severe weather and recent heavy snow storms, some difficulty was experienced in securing horse teams for the transport of our outif to Lac-la-Bicke post, one hundred and eighty miles distant to the northward, at the termination of the tote road.

Two men with the dog teams and light sleds, were despatched by themselves, but the rest of our party, accompanied by two horse teams, were unable to get off until February 16. We reached Lac-la-Biche on the evening of the 21st. Here, in order to provide for the transport of our outfit, three additional dog teams were required, and these were procured for me by Mr. Kennedy, the Hudson Bay Company's local agent. We were thus provided with five dog teams in all, one being very poor, having just made a journey of five or six hundred miles from the north, and on the 26th we pulled out, heavily loaded from Lac-la-Biche, and journeyed northward by a winding hilly trait through the woods, a distance of two hundred and fifty-five miles, to Fort McMurray at the junction of the Clearvater and Arthabase rivers.

Thence the course of the latter stream was followed one hundred and seventy-five miles down to Fort Chippeyan on Lake Athabasea. Great difficulty was experienced by the way in procuring food for our many hungry dogs. At one place we were obliged to stop two dogs, whilst an Indian was despatched some distance for the carcesses of two moose which he had eached. At another the careass of an unfortunate horse was required to sustain our canine steeds, and at another time a dead ox belonging to the Hudson Bay Co, supplied the pressing demand, but as a rule frozen fish, purchased from the Indians at extortionnate prices, furnished their bill of fare.

By the time, therefore, that Chippewyan was reached, our dogs were much reduced and fagged, and a stop of four days was necessary to feed and recruit them, to say nothing of men's blistered feet and snow-blind eyes.

One voyageur being required to complete our party, a Chippewyan Indian, known as 'Toura,' and a splendid specimen of physical manhood, was engaged at this place.

Much benefited by the pleasant stop at Chippevyan, where we fell in with many friends, we again mored forward on March 23. On the 26th reached Fort Smith, and on 'All Fools Day,' trooped into Fort Resolution, Great Slave lake, having tramped a distance of six handred and seventy-six miles from Lac-la-Biche, or eight hundred and fifty-six from Edmonton. Not counting necessary delays, en route, our average daily travel with the dogs from Lac-la-Biche to Resolution amounted to trenty-six miles.

At Fort Resolution we were kindly received by Mr. Gaudette, the Hudson Bay Company's officer in charge at the post, and in his storehouse we found our supplies, amounting in weight to over six thousand pounds, which had been shipped the previous summer. Although you had written to the company requesting that our supplies be forwarded by boat up the lake, such request had not been received by Mr. Gaudette until too late for the performance of the work, and consequently the task of transporing this large amount of stuff now devolved upon us. Three more teams in addition to our own free were with some difficulty procured for the work. Two specially designed long steel shod aleds were constructed, and in order to provide food for the dogs, en route, a fishery was virabilished paring way up the lake at White island. Whilst the above preparations were being carried out, the snow on the lake, which had been deep, vas rapidly disappearing before the warm sun and April showers, and by the 10th of the month it was thought that the condition of the lake was about at its best for travel.

Accordingly on the morning of the 11th, I despatched a party with light sleds and 3,000 pounds of goods to White island, where they were to deposit three loads, and returning bring back news of the fishery. This news was, unfortunately, not encouraging. A few large 'incomul,' commonly known as 'conneys' were eaught by the nets, when these become entangled by the disruption of the ice in that locality. We were thus dependent for dog food upon what could be carried from Resolution or what

might by chance be picked up by the way. Accordingly every available pound of dog food at the fort was secured, and the last of our loads set of for White island on April 16 on long sleds, each carrying from nine hundred to one thousand pounds. For the most part the condition of the lake was fairly good for sled travel. The snow had now nearly all melted, lavering ponds of water on the lake, and in places the ice was already becoming 'candled,' making sore fosting for both men and dogs. As we preceded this became serious, and though it was sthought a sufficient supply of moose skin dog shoes had been provided, they were cut through so quickly, that our stock became schausted before the distance on the lake was half covered.

Bags and every available material had to be manufactured into dog shoes in order to enable the poor brutes to keep their feet, for as we advanced the ice became in many places a verifiable bed of sharp solices.

Fortunately we were better provided ourselves with hob-nailed shoes, as nothing less will stand the wear for half a day. Our sleds were also designedly well shod with steel.

Without dwelling further upon the details of this sled journey of two hundred and fifty miles over the ice of Great Slave lake, suffice it to asy that the last of our outfit was safely landed on 'Dike's Portage' at the extremity of the lake on May 9, by a lot of starving but faithful dogs. Some had played out altogether and drepped by the way, but the two long sleds drawn by four dogs only, made the latter part of the journer with fiften hundred pounds each. Were it not for these sleds, which were at first laughed at by the natives, we would never have been able to effect the transport of our outfits orgreat a distance with but the one base of surplies.

We were now at the point from which our aurveys were to commence. Before us lay a twenty-free mile succession of portages to Artillery lake, and this I had hoped to be able to cross by the aid of the dogs. Such was now quite impossible for two very good reasons, vize, that the dogs were played out and we had nothing with which to feed them. Deer hunting parties were at once sent off in different directions, but no dece could be found. And again further transport by the dogs was out of the question, for the reason that the snow had all disappeared from the ground, leaving the portages quite bare. On the lakes the ice was still about seven feet thick, excepting at certain parts where exposed to influence of currents, which were rapidly cutting inroads, and thinning the ice at such places.

The assistance of our dogs thus being no further available they were sent back in charge of Mr. McKinley, to be cared for at Resolution until our return in the autumn.

Mr. Fairchild, accompanied by Acres, made a reconnaissance of the portage route to Artillers lake, and marked out the trail for the packers, whils I proceeded forthwith to make a survey of the most easterly bay of Great Slave lake—named by me "Charlon harbour."

CHARLTON HARBOUR.

This harbour extends in a north-easterly and south-evesterly direction, and is about sixteen miles in length by from two to five miles in width. It is connected with McLead's bay by a narrow but deep channel, less than a mile in width, where the water seldom, if ever, freezes over, there being considerable current. North-east and south-west of the channel, two long and high points of dolomitic limestone stretch out towards each other from the main shores and thus separate the harbour from the outer bay. A convenient way of approach for sileds or small boats from the laks to Old Fort Reliance—which is situated at the head of the harbour close to the mouth of the Lockhart river—is by means of a 700-ard portage, near the base of the northeasterly point, to which I have attached the name of my assistant. 'Fairchild'. Fairchild point, which is about the miles in length is well wooded with while spruce from six to twelve inches in diameter, and is notable as being the best source of timber in that locality.

The shores of the harbour on all sides, excepting around Fort Reliance, are bold and rocky, that to the south-east being composed chiefly of pink granite, but sparingly wcoded with small spruce and a few Banksian pines. It might be noted here that on Fairchild point a few black poplars were observed, the last seen on our outward journey.

Latitude			2·4″ N.
Longitude	108	44 5	
Magnetic Variation			E.
" Dip			. N.

OLD FORT RELIANCE.

At Old Fort Reliance the magnetic variation was ascertained to be 37° 15' east, Back having found it to be 35° 19' east in 1834.

Old Fort Reliance is no more a fort, but a ruin, yet the site is one of the loveliset grots I have ever seen in the north. It was well chosen by Back for the establishment of his winter quarters. Five stone chimneys only now remain of what were 60 years ago three substantial buildings, the bare outlines of which can now be scarcely traced on the ground.

They were situated on a lovely level green terrace about twenty feet above the harbour, and two hundred feet from the shore. The main building which contained three of the great chinneys and five open fire places, measured thirty by fifty feet, and was divided into five rooms with a fireplace in each room.

Two smaller buildings, 18 feet square, and situated a little to one side, appear to have completed the fort.

Back of the buildings the land rises in regular and beautiful terraces to a considerable elevation. These are thinly woolded with young white spruce trees, between which in many places the ground is covered with cranberries and blueberries. Here and there are to be seen the charred remains of large strumps, indicating the comparatively recent destruction of the original forest, as well as offering an explanation for the disappearance of the old fort.

The largest young trees, which showed 34 or 35 years growth, were from four to six inches in diameter two feet from the ground, and were not of stunted appearance.

One of the most striking features of this lovely natural park is the occurrence of numerous broad, winding, well-beaten roadways, leading from nowhere to nowhere.

Upon inspection, not a wheel nor even shoe mark can be detected, but only innumerable tracks of the caribou, occasionally followed by that of a prowling timber wolf.

About one of Back's old stone chimneys, an adventurer known as Buffalo Jones built a small log house three or four years ago. This still remains, being now the property of Messrs. Heslopp and Nagle, of Fort Resolution, and was occupied by my party for several days.

PARRY FALLS.

Closely associated with the history of this place is that of Lockhart river and its many beautiful catarates, being among which is Parry falls, depicted by Back as being the most beautiful in the world. Having read Back's description of them, I had long been looking forward to viewing their marvellous grandeur and beauty, and took cocasion to read the description to Mr. Fairchild, who undertook a tramp up the Lockhart in search of deer upon our first arrival. He assended the river for ten or cleven miles, passing several rapids and falls, but on his return reported that no Parry falls were to be found. Shortly afterwards, accompanied by Messrs. Fairchild and Lofthouse, in making a survey of the river, I renewed the search myself, and at the

place indicated on Back's map, found Parry falls, and obtained several photographs of them which will speak for themselves in plain ungarbled language.

The fall is certainly a very beautiful little one-something as described by Back, excepting in dimensions, which require to be divided by five in order to be correct.

The total descent of the fall is eighty-three feet, and at the time of our visit was completely bridged over by an ice-bridge, across which wo walked, in order to obtain views from both banks, as well as to measure the width of the fall, which at that place was only twenty-five feet.

Besides Parry falls, five others ranging from six to fify feet in height occur at various points further up the river, but as they are all shown upon my accompanying map, it is not necessary to describe them in further detail, since the Lockhart will never be used as a navigable stream, it having in its length of about wenty-four miles a total fall of six hundred and sixty-eight feet. If not of use for purposes of navigation, however, it may some day prove none the less raluable for the generation of electric power to be utilized in the development of the district, or in conducting traffic through it. As a town site, no place could be more beautifully or advantageously situated than the level park, like terraces, at Fort Relinee.

PIKE'S PORTAGE.

During the time occupied in surveying Charlton harbour and the Lockhart river, my voyageurs were engaged in transporting our outfit across the 'Pike Portage' route to Artillery lake, a distance of twenty-four miles.

This route first described by Warburton Pike, is by far the best canoe or boat route leading from Great Slave lake to Artillery lake.

It does not appear to have been known to Back in the thirties, when he persistently made three laborious journeys up and down the course of the Lockhart. Back mentions an alternative route by way of a small creek one mile south-easterly from Reliance, but states that this creek was too shallow for cances, which is quite true.

By adopting Pike's route, advantage is taken of a chain of small lakes—eight in number—which cover more than three-fourths of the twenty-four miles of travel.

For convenience of reference the larger of these lakes have been given the follownames in the order of our advance :--1. Harry ; 2, French ; 3, Acres ; 4, Kipling ; 5, Burr ; and 6. Toura, after the names of our voyageurs.

The only difficult portage on the route is the first in ascending order, viz., that from Charlton harbour to Lake Harry. It is 34 miles long, and from end to end has an ascent of 570 feet, besides several ascents and descents on the way. Lake Harry is three unles long and is separated from French lake, which is ten feet lower in elevation, by a portage of four hundred yards.

French lake is over four miles in length, and discharges to the north-eastward into Acres lake, which is six feet lower. A short portage of one hundred yards is necessary between the lakes.

Acres lake, which is of very irregular shape, is the largest of the chain, though its length is only shout foor miles. It has an elevation of 1.074 feet, and discharges from one of its westerly bays by a stream, which I believe to be the one entering Charlton harbour, about a mile south-essetter from Fort Reliance.

Kipling lake—the fourth link in the chain—discharges into Acres lake with which it is connected by a narrow, winding, aluggiah creek, navigable for cances. It is only two and one half miles in length, but is one of the pretitest lakes of the series, its beautifully woolded shores and sundy beaches sloping down gradually to the water's edge in many places. Thus far the country passed through was found to be fairly well woolded with small white spruce and tamarac; whilst on the fart long portage a grove of jack pines—the last seen by us—was passed. Some small white birch trees were also noticed at various points. By May 10 we had our outfit of about three tons weight, in cache at the north end of Kipling lake. The body of the lakes was still covered by ice, but around the shores and for half a mile or so near the inlets and outlets, open water had already formed, and this was causing our voga-

geurs much care and trouble, for the ice near the edges of the open water, was for some distance treacherous and rotten. Cances and sleds had to be used alternately in crossing the lakes, and much care and difficulty were often necessary in making the transfer from one conveyance to the other.

From lake to lake, the ground being bare, all goods had of course to be portaged on the men's backs.

Many old Indian camps were to be seen along our route, indicating that it is a much frequented way, but up to this time we had seen no deer. Their tracks were, however, to be seen everywhere, as well as many seattered bones and antlers.

One party of Indians, 'Pierre Fort Smith' and several others, had passed us on their way to Artillery lake, whence they were going to hunt deer, and later in the season musk ozen.

From the north end of Kipling lake, a portage of one thousand yards easterly, toole us to a point which is separated only by a narrow neck from Burr lake, the fifth of the series. This lake is in a straight line not more than twelve miles distant from Old Fort Reliance, with which it is connected by a natural pass having a gradual descent to the westward. It does not afford a favourable cance route, since it contains few lakes of nuy size, and too small a stream to be of any service, but as a route for a highway, steam, or cleatric railway it appears to be the most advantageous, and since the elevation of Burr lake is 1,131 feet, the mean gradient from the lower terrace at Reliance would be fifty feet to the mile.

At the north end of Eurr lake there is situated a nice grove of white spruce timber, containing trees of ten and twelve inches diameter. A photograph of this was fortunately obtained, as it proved to be the last timber of any consequence met with before entering the barren lands, excepting some on the west shore of Artillery lake near Timber bay.

The portage from the north end of Burr lake to Toura lake is three-quarters of a mile long, and may be made either in one or two parts, by avoiding or taking advantage of a little lake lying to the east of the straight course. The seventh lake of the chain, which is nearly a mile in length, is reached by a very short portage from Toura lakes, and is at an elevation of twelve hundred and eighty-two feet, being at the summit of the divide between Greet Slave and Artillery lakes. From it a portage of seven hundred yards to the eastward takes one to the eighth and last lake, which is less than half a mile in length, and one more down hill portage of a quarter of a mile in length lands one at the southern extremity of Artillery lake, so named, though but crudely surveyed, by Sir George Back, after some British artillery men of his party. In addition to the portage route above described, which was followed by our voyageurs, several others were discovered by myself and Mr. Fairchild, and are shown on my accompanying maps, but will not require further description. The district is composed of granite and dolomitic rocky hills, some of which attain elevations of from nine hundred to one thousand feet above the level of Great Slave lake.

The distance from Reliance to the southern extremity of Artillery lake in a straight line is about sitzen miles. The clevation of Artillery lake is 1,188 feet, or 668 feet above Slave lake, which would make a mean gradient of about forty-two feet per mile.

ARTILLERY LAKE.

Artillery lake was reached by our outfit on the 96th of May, more than two weeks after it had been first visited by Fairchild and Aeres, when exploring and 'brushing' the trail for our voyageurs. Then its ice had been as solid as in winter, showing no signs of disruption or decay, whereas now it was rapidly decomposing, forming what is known as enalle-ice, and making much open water along the shores. At eamp beside a small grove of scrubby trees a mile and a half up the west shore of the lake, observations were taken of latitude and longitude, as indeed had been done at several other voints. but as the results of both strenomical and manentic observations

on the maps, and will be given elsewhere in tabulated form, they will not always be mentioned in manuscript.

I had cause, however, to congratulato myself for having obtained sights at this place, for the next day I allowed my chromometer to run down, and had only to return a short distance, obtain new sights and redetermino their errors. Tho first deer met with on our journey were two shot by Mr. Fairchild near this eamp, and they formed a most acceptable supply of fresh meat for our party.

In attempting to proceed with our loaded sleds up the lake, we came very near meeting with a serious accident. Although the ice was still of considerable thickness, it had become so 'candled' that in places one could push a pole or foot completely through it, and at one of these bad places, two of our sleds broke through and were only saved by the support of the long cances which were lashed on top of the loads.

By the exercise of much care, and the occasional use of cances, instead of sleds, we were able to continue our transport over the ice until June 8, when reaching the most northerly grove of timber on the east shore of the lake, in latitude 63° 64' 10' I decided to go into camp until we might be able to proceed in our cances. We had met the Indian, 'Fierre Fort Smith,' on the lake, who had not only told us of this advantageous camping place, but also much else of interest in regard to our route and the game of the country. The nanceed little map (see *page 111*) is face-simile of one drawn by him of Artillery lake and the Thelon river, and is better of the lake than Back's published map.

Thus far with Mr. Fairchild's assistance I had carried on the survey of both shores of the lake, and now though we were unable to proceed further with our loads, we were still able to travel light, and so continue our work until we had nearly completed the survey of the lake, as well as considerable country to the eastward of it. The uncompleted portion at the north end was finished on my return later in the senson.

Artillery lake lies in a north-casterly and south-westerly direction, and is fiftyfree miles in length by seven miles in within a the widest part which is towards tho north end. The southerly end terminates in a long narrow bay, less than half a mile in length, and the superficial area of the lake is about one hundred and ninety square miles. Its shores are bold and high, in some places about two hundred feet above the lake, and for the most part they present a bare, desolate appearance, especially on the easterly shore where few trees of any kind can be seen.

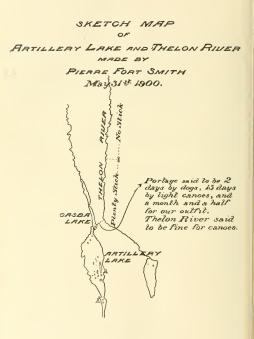
Such small groves as were found are shown on the map, but on the westerly side, about ten miles from the south end, the shown on the map, but small spruce, and they continue northerly, although thinly scattered for a distance of twenty miles, eight miles further north than the last grove on the east shore. There the woods cease entirely, and beyond the landscape is indeed a picture of desolation, although it produces much prass, mosses and other regretable life for the support of the numerous bands of caribou which rove its rocky hills. About half way up the lake there is a group of high rocky islands, the largest of which, named 'Crystal island', lies towards the east main shore, and appears from Back's map to have been taken by him for a part of it.

Its length is about five miles and its width half a mile. It is composed chicdy as also the smaller islands—of dolomitic limestone with some patches of white quartz conglomerate, and innumerable white quartz stringers everywhere through the limestone. In these stringers in many places were found clusters of small clear quartz erystals, and hence the island's name.

Some growing timber was found on the south end of the island, as well as a large quantity of standing charred trees, making the place a most desirable camping ground. Similar rocks to those of Crystal island are found also on the east shore opposite, and southerly to a point opposite the head of the Lockhart river, where the formation changes to a coarse-grained red granite.

25-iii-8

ii)



The west shore near the south end, which is precipitous in places, and attains a height of two hundred fect, is also composed of granite and diorito, together with large quantities of huematite ore. Dolomitic and granite are found at many points on the lake, and in some cases contain a considerablo amount of iron pyrits.

The easterly shore of the lake is the more regular and unbroken, as well as being nearly in line with the most direct route across the grand divide.

The resources of Artillery lake and vicinity, outside of any mineral wealth it may possess, lie in its fisheries, its furn and near taupilis. In regard to the fisheries, I can testify that its deep cold waters abound with the fine-t specimess of lake troat as well as whitefish, pike and care. At one place in about fifteen minutes, with a single spoon hook, one of my men pulled out eighteen fine troat, some of which were brought to camp, strung on a pole and photographed by me. Some of these fish were from sixteen to twonty pounds in weight. In regard to the fish of Artillery lake, I was told a most astonishing story by the Indian, "Pierre Fort Smith," and his companion. They affirm that they have frequently seen fish from twenty to thirty feed long in the water, and described them as being of black colour, with long lender horns or feelers. They say that they have never killed one of them—being afraid of them—but that they are frequently seen in the deep waters when crossing the lake. When I smilled at their story with some expression of d-oubt, they became very indignant and with one accord stoutly declared every word of it to be true.

I offered them 'one hundred skins' if they would capture or kill such a fish for me, but they only said they could not do so, they were too big, and they were afraid of them.

The fur-bearing animals of the district are black bears, timber wolves, carcajous or wolverines, coloured foxes and ermines, although musk oxen are also found at no great distance from Artillery lake, both to the north-east and north-west.

The meat supply of the country, which is abundant, is furnished chiefly by the caribou.

Water fowls are not numerous as the rocky shores and deep water are not such as to provide feed for water fowls, but ptarmigan are quite pl, ntiful on the land where they find abundant varieties of berries which are found everywhere.

HEIGHT OF LAND.

During the interval of our encampment in the last woods on the east shore of Artillery lake, advantage was taken of the opportunity for making a track survey across country towards the height of land, which was thought to be no vory great distance to the eastward.

On June 11, therefore, accompanied by Mr. Fairchild and three voyageurs, I proceeded by cance, north-easterly along the shore through a channel of open water for a distance of twenty miles where a deep handlo-ked by was discovered, which appeared to be the most easterly arm of the lake, and thus to affend the most advantageous noint from which to start on our overland iourney.

From the east shore of this bay on the following morning our tramp was commenced, and a mean astronomical course of north \$0 east followed.

The character of the country passed over was that of bure rocky hills, with occasional high sand ridges, and with grass vallers between them.

The rocks were observed to be granites and granises, and may deer were everywhere to be seen moving northward. The deep of the land was found to be to the westward for a distance of seven miles, when suddauly from the summit of a hillthe elevation of which was 1.488 foct-an large lake, one hundred and fifty for blobou us, was discovered. It appeared to extend for miles to the northward, having from our elevation a water horizon in that direction. If also stretched for a count danable distance towards the south, and as its surface was now only partially covered by ice, our further progress to the eastward was most effectually obstructed.

25-iii-84

From our elevation a fine view of the lake and surrounding country was obtained, and many conspicous white sand hills and ridges were visible in various parts. As to the direction of discharge from this lake, we were at first unable to determine the question, but upon surreying the west shore, a distance of ten miles to the southern extremity and finding no outlet there, but several small inlets, and subsequently on completing the survey of the north-east shore of Artillery lake, and finding no stream which could form the outlet of so large a lake, it became evident that the outlet must be to the north or eastward, and that we had consequently crossed the Grand divide at the distance of about seven milles from Artillery lake—the elevation being, as already stated, 1,458 feet. This new discovery was named by me 'Douglas lake,' after my own little boy.

In returning to camp, Mr. Fairchild and the men had some difficulty in getting the cance back along the shore, as the ice had drifted in tight upon some of the points. As for myself, I walked all the way back to camp across the country—a distance of about twenty-five miles—in order to explore the district.

Many small lakes and ponds were met with, and the rocks were observed to be granite and gneiss in most places.

Glacial strike were observed on the rocks with a strike of north 88° east (astronomical).

Little else of interest was to be noted, beyond the fact that I had a rough, tiresome tramp, and reached eamp in good time to save myself from getting a thorough soaking. Mr. Fairchild and party did not reach eamp with the eanoe until 11.30 p.m., some two hours later than myself.

Preparatory to proceeding on our journey with the cances, a small 'cache' of provisions and such other articles as would not be necessary on the Barren lands, such as our sheet iron store, was placed and securely fastened high up between two small trees, from which the branches and bark were then removed, so that the trees might be smooth and as difficult for carrely out of timb as they could be made.

The carcajou, it may be mentioned, is one of the most troublesome enemies to the Indian or the hunter. It is almost impossible to make anything secure from the reach of this robber brute. What he cannot eat he will destroy, or carry away and hide, and as he is not only very powerful and cunning, but can climb trees, or swim in the water, he is indeed a formidable enemy. Notwithstanding our carefully built 'eache' my Indians said the carcajou would rob it, so as a last resort, I nailed a lot of great strong fish hooks upon the barked trees, and thus left it to take its chances of safety. On the afternoon of June 15, the lake ice being off shores sufficiently, we loaded our entire outfit into the cances for the first time, and with some difficulty worked our way along above to the north-eastward. At certain prominent points where the ice was close in upon the shore we had to make portages over the ice, which was now none too strong for such work.

However, on the morning of the 21st we reached the head of Artillery lake and entered the mouth of 'Casha' river, a Chippewan Indian name, the equivalent of White Partridge river. This river which is only about ten miles long, discharges the waters of Ayhmer, Clinton-Colden and Casha lakes, and has a total fall of thirty-two fect. Towards its upper end are three rapids, necessitating, on the upward trip, three pertages of 250, 250 and 400 yards respectively. On the down trip, the two upper rapids may be run by cances, and only the lower 250-yard portage made where there is a full of 15 fect.

Just above the third rapid Casha lake is reached. It is about 15 miles long, by from two to three miles wide, excepting at the south end where a deep bay extends towards the north-west for a distance of nearly four miles.

As far as this bay we were accompanied by 'Pierre Fort Smith' and his friends, who in that direction were now setting off on a musk ox hunt.

Casha lake was found to be comparatively free from ice, and this was an agreeable surprise to us since we had left so much ice to the south of us.

Having had the misfortune to loss the spinner of $m_{\rm v}$ cance log on our second day out, I found myself seriously haudicapped for want of a measuring instrument. Being wind-bound for half a day, however, I got to work and out of an aluminum freyman, manufactured a new spinner which proved to be quite as good as the one I had lost.

Casha lake is connected with Clinton-Colden by only a few hundred yards of current-mothing in the ohape of a rapid or fall—and on entoring this latter lake we saw the last of the ice on our outward journey. For three miles on Clinton-Colden lake we sailed in a north-easterly direction until we reached the entrance to a deep bay, in the mouth of which, as marked on the Indian maps made both for Back and myself, is a small island. Into this bay, which extends in a south-easterly direction, we turned our encose and paddled a distance of only three and a half miles, when we found ourselves at its head, and, as we believed, at the commencement of the portage route to the 'Thelon' as described by Back. As it was Saturday evening when we reached this place, 'Sunday camp' was pitched, and the next day a reconnaissance made to the country to the eastward.

A portage of only 100 yards took us to a little lake about one mile long at the cust end of which the height of land was crossed ; at this point the elevation being only 1,234 feet above the sea.

At the portages we discovered some very old moss-grown fragments of tepee poles, proving that at some time the route had been travelled by Indians.

Since leaving the cache in Artillery lake, we had not seen a growing tree of any description other than a few ground willows. Moss and heather formed the only fuel supply of the country, and with these we boiled our ten, and did our necessary cooking.

The weather was at this time fine and pleasantly warm, ranging from 50° to 70° in the shade, and the mosquitos were out in full force.

The character of the country was much less broken and rugged than about Artillery lake, its surface more level and containing few conspicuous elevations. The most notable perhaps from the height of land portage is a small conical butte bearing south 42° was by compass, and is probably the same one mentioned by Pike as a 'leading mark' to the Cashs river.

HEIGHT OF LAND LAKES.

After crossing the divide, and within a mile and one-half therefrom, we entered a lake bearing away towards the south-east. This lake was named Lae Deville, in honour of our worthy surveyor general. It has an elevation of 1,206 feet, and was found to be about eight miles in length.

From the south-easterly extremity it discharges through two short rapids, when two portages of one bundred and four hundred yards respectively are necessary, inclua second lake of four feet lower elevation. This lake I have taken the liberty of naming Smart lake, and through the north end of it we passel for a distance of unine miles. To the south, however, extended a deep hay into which we had no time to enter. This in all probability leads to the main body of the lake extending many miles to the south, as indicated on Back's Indian map. Smart lake outlets to the north-east by means of a rapid half a mile long, and a rule or two more of current, which enters the south arm of Sifton lake—so named in honeour of the Minister of the Interior. Sifton lake has nelevation of 11.17 feet, and is of very irregular form, being composed of four large arms, one extending to the south, two to the nyrth, and one to the east and south-east. Judging from the description this is the second large lake shown on Back's Indian map of the riue of the Thelon, and such being the case our route lay by way of its eastern arm.

Whilst sailing northward into Sifton lake we encountered a gale which drave us ashere at the focus of the four arms. Thus finding a little leaver time throut upon us. Mr. Fairchild and I., providing ourselves with compasses and field gasses, made

an exploratory tramp of a few miles. The season had now advanced to June 27, and at such time in our latitude $(63^\circ$ 44') we had no darkness, although the sun dipped below the horizon for a short time. The hours of night were, therefore, as suitable for travel as those of the day, and hence it was 10 p.m. when, scanning the valleys and hill-sides with my powerful stereoscopic field glasses, I observed a band of musk oxen feeding a mile or more to the northward. Fifteen of them were counted in all, and this was a genuine surprise, since we had not expected to see any of these animals for some time to come. They were none the less welcome, for our camp was much in need of fresh meat, and stimulated by this knowledge we procured two rifles from camp and set off in one of the canoes with two Indians, on a midnight hunt. The lake had now become quite calm, and the northern sky a glow of lurid light, making the scene a most enchanting picture, such as can only be seen within the shadow of the Arctic. For three miles our light canoe glided over the glassy surface of the lake in perfect silence, excepting for the faint ripple of the water against its sides, until when near the shore there suddenly appeared over the adjoining ridge, the huge black forms of nine musk oxen.

Even our breathing was now almost stiffed until we were able to gain the shore and conceal ourselves from view behind the steep bank of the lake.

After hauling out the cance upon a sand beach and carefully examining our rifles, we made the ascent of the bank. There we lay for some minutes in silent admiration within sixty yards of the foremost brute, in order to regain breath and steady our nerves, which being accomplished, and the two largest bulls selected, at a given word, we both fired.

They were all taken completely by surprise and at once stricken with panic, and yet they had not yet located their source of danger, and knew not which way to flee. The succeeding ten minutes were assuredly most interesting around 'Alusk Ox hill.'

Although our rifles were of the most modern and very powerful, one 'soft nose' was by no means sufficient to bring the bulls to earth. We had to spring to our feet, and defend ourselves from the charge of several of the infuriated band, which was, however, soon despatched before our deadly missiles. One of the large bulls killed was found, upon examination to carry six mortal wounds, and three holes through his heart, all of which he had received before falling. Such was found to be the tenacity of these noble beats.

A young wounded musk ow which charged upon one of my men, and made matters decidedly lively for a time, was photographed by me before he fell at 1 o'clock, am. He had previously been snapped by Mr. Fairchild, as the brute was charging upon him, but the light was not sufficient at that hour for an instantaneous photograph. and nothing resulted.

The whole night had passed without thought of sleep, but we had had a successful hunt, and were now well stocked with fresh meat.

On the summit of Musk Ox hill-seventy feet in height-a great cairn of rocks was built, and the geographical position of the spot determined.

Its latitude was found to be 63° 44' 42", and longitude 108° 17' 11".

The combined length of the south and east arms of Sifton lake by our course was found to be eighteen miles. How far the two northern arms extend, I cannot say, more than that they had water horizons from our points of view.

It is worth noting that at the head of a small bay about one mile east of Musik Ox hill, a few small scrubby spruce trees were observed. They were the first seen since leaving Artillery lake, but were too small to be of much interest.

On a small island in the south-eastern arm of the lake we made our second acabe of provisions, to be picked up on our return journer. On this occasion, having no trees, our provisions were merely placed in waterproof bags and covered over with stores, the isolation of the little island being relied upon heilef for security. On this island some little local magnetic variation was observed—there being a difference of 8³ between it two sides not one hundred yards apart.

From Sifton lake, a succession of small lakes and strong currents lead us eight or nine miles to the south-east, bringing us back to the latitude of Smart and Casba lakes.

Thenee we turned north-eastward and eastward, passing through several small lakes having irregular and deeply indented shores.

The elevation of the upper of these lakes was ascertained to be about 1,190 feet, and the next ten feet lower.

Lac-du-Bois, so named from the occurrence on its shores of a few thinly scattered spruce trees, has an elevation of 1,14% feet.

On July 1 the water on these lakes was found to have a temperature at the surface of 60° , that of the sir at the same time being as high as 78° , which to us felt excessively warm.

The above three lakes are connected by two heavy rapids of ten and thirty feet fall respectively.

At the upper one where a single tree was found, the portage, which is best made on the north side of the stream, is five hundred yards in length. At the lower rapid, though the fall is greater the portage is but four hundred yards long, and is on the south side of the stream.

Lac-du-Bois may be entered by either of the channels, but the southerly is the course of the main stream and contains a strong current.

It discharges by means of a wild rapid of 45 feet fall, when a portage of seveneighths of a mile is necessary on the south-west side of the river.

Photos were taken of these rapids, one of which at Sta. 321 appears amongst the other photographs at the end of this report, and is numbered 35.

HANBURY RIVER.

At the foot of this rapid, a little lake two miles long was entered, and at its south end we found the diseharging stream, which hereafter assumed more the character of a river, and to it I have attached the name of 'Hanbury,' after David T. Hanbury, the first white man to assend it.

For about one mile and a half from the lake, the river trends nearly south and consists of one long rapid, falling in that distance about 50 feet. About two-thirds of the rapid may be run by cance, but the remaining third is too rough and has to be portaged.

At the foot of this long rapid, the river bends to the north-east, and without deseribing its course in detail, continues in that general direction for about 30 miles, passing through four small lakes and into a fifth, which has been named 'Sandy lake,' because of the very remarkable and high white smal hills to the north of it, and its white sand shores and bottom. The elevation of Sandy lake is 940 feet, its length about four miles, and width less than one mile. Its waters are very shallow and full of sand bars. The general dharacter of the river thus far afforded a fine came route, the eurent ranging from one to five miles an hour, with a mean velocity of probably three and a half miles. Just before entering Sandy lake, it turns sharply towards the south-east and maintains that general direction to its junction with the 'Thubon'.

About a mile below Sandy lake, the wildest section of Hanbury river emmunes. It begins with a beautiful fall of 50 feet, which I have name Masshundi falls. Thence for three miles down stream the river rushs through a narrew dop chasm, which I have named Diokson canvor, and falls a distance of over two hundred feet.

The scenery on this canyon is by far the wildest and grand at met with an our journey, not even excepting Parry falls, and in this assortion I think the accomplexing photograph will bear me out.

If, therefore, Sir George Back's opinion of the magnificence of Parry falls is worth anything, what must be the grandeur of the Dickson canyon !

At Macdonald falls a portage of five hundred yards is necessary, and is best made on the left or east side. At the canyon a two-mile portage is necessary, and is best

made on the right or west side. About one mile below the eanyon another fall of sixty feet occurs. This one I have named Ford falls, and it was passed by making a half mile portage on the right bank.

A much shorter portage would have sufficed had we been able to descend the river bank when the falls were passed, but this was not possible on account of the banks being high precipitous walls of sandstone.

At the head of the canyon the rock formation was observed to be gneiss, having a strike nearly due north (astronomical) and a dip of 75° towards the west.

Towards the foot of the eanyon the formation changes to a soft, white coarsegrained sandstone, into which towards the bed of the stream are many large wellrounded 'pot holes.'

With the change of rock formation a well marked change in the character of the country and its vegetation was also noted.

About the many lakes, forming the head waters of the Hanbury river, the country was of a very barren appearance, with searcely a growing tree until Lac-du-Bois was reached. Thence to the canyon, occasional groves of small spruce trees had been met with along the river banks, but below the ennyon the country assumed a more verdant appearance. Broad, grassy low lands, affording luxuriant feeding grounds for musk oxen, began to make their appearance, whils the occurrence of trees became more common. Many new variations of flowering plants were also collected below the eanyon for the first time.

Ten miles below the canyon, another beautiful fall of 60 feet occurs, and this I have named Helen falls. A portage of 500 yards is necessary here, and a short distance below another fall of ten feet, and portage of 70 yards complete the list on the Hanbury rive.

About eight miles more of fine smooth river, took us to the forks or junction with the 'Tbelon.'

The Hanbury river and upper lakes as a whole, form an excellent canoe route from Cluton-Colden lake across the grand divide and down to the Thelon river. The whole distance across our winding route measured 165 miles, or in a straight course between the extreme points determined by astronomical observations, S7 miles.

From Fort Reliance to the junction of Hanbury and Thelon rivers, the straight line distance is 150 miles, and by our route, 230 miles. The two extreme points are almost of exactly the same elevation, that of Great Slave lake being 520 feet, and that of the junction of the rivers being 530 feet, as nearly as could be determined from my barometric readings.

The intervening country is composed of bare rocky hills, and intervening stony low lands and lakes of great variety of form and size. Nothing of a mountainous character was found in the 'divide' country, and the greatest elevation to be crossed was the height of land, distant 115 miles from Great Slave lake and 714 feet above i.

Between the height of land and the Thelon river there are in all fifteen portages, aggregating a total length of five and three-quarter miles, the longest one being two miles, the shortest fifty yards, and the average for the whole, 676 yards.

Besides these there are between Great Slave lake and the height of land, twelve portages, making an aggregate of six miles, the longest being three and a quarter miles and the shortest 100 yards.

The total number of portages, therefore, between Great Slave lake and the Thelon river is twenty-seven, and their total length eleven and three-quarter miles.

In regard to game on the Hanbury river and headwater lakes, comparatively little was met with, excepting about twenty musk oxen and a few broods of young geese.

The deer had all preceded us to the northward, only an occasional straggler, which had been unable to keep up with the herd remaining.

THELON RIVER.

This fine stream was reached by us on the morning of July 7, about mid-summer. No snow or ice was any where to be seen, and the river had apparently fallen to somewhere near low water mark.

Opposite the first grove of spruce, about two miles below the junction of the Hanbury river, where we made camp, some measurements of the Thelon were made, from which the volume of flow at the time was found to be over 50,000 cubic feet per second. The with of the stream measured 1227 feet, depth of channel fwe feet, and velocity three and one-third miles an hour. These measurements being taken near the forks, above a less depth but greater width than exists at most parts.

Eight miles farther down stream soundings were taken, showing a depth of fourteen feet in mid-channel. At this point well grown spruce trees were plentiful on both banks.

About twelve miles below the forks the channel becomes greatly contracted, and when descending the river has the appearance from a distance, of being quite obstructed by bluffs of sandstone, 400 feet in height. Upon nearer approach, however, a gap is observed through which the river passes without falls or rapids, contrary to one's expectations. The 'Gap' being passed the river at once widens out beyond its usual width, and is confined by low sandy banks. Three miles below the 'Gap' the stream is divided during high water, by a large low island, which I have named 'Grassy island' because of the rank growth of grass covering it, upon which music oxen were observed to be feeding. At times of low water the western channel is almost or entirely day. Soundings at several places showed leven and twelve feet of water in the channel, but at other places sand bars were found to exist where the water was not more than three feet in depth.

About thirty and thirty-two miles below the forks, two slight rapids occur where ridges of rock project into the stream, but they are so slight as not to seriously interfere with navigation of the river, either by cances or large river boats.

Here, and for many miles below, the Thelon is a really fine and beautiful river, having grassy banks—well wooded in places by spruce trees—some of which measured fifteen inches in diameter.

GAME, &C.

As we glided quickly and quictly down the river, one of the most interesting features met with was the occurrence of numerous bands of muck occur, feeding upon the luxuriant grass or sleeping on the river bank. Attempts were made to obtain photographs of some of these noble brutes, but such were not very successful, for two reasons, first, because of the vacations of the animals, and second, because of the weariness of the photographs of the photographs of the photographs of the

It was observed that when hands of cows with their young were must with, they were usually every timid and lifed at first approach a donarce, but in the case of stragging bulls which were frequently seen, they were much more for these and allowed us to approach a stocked as promotions at closely as prudenee and their doftant attitudes would permit. On one occasion, when Mr. Fairchild elimbed the river bank in order to photograph a five segretion, he had no sconer samped his comera and turned his back, than the brute charged and followed him to the bank. He was at once covered by our rides, but as Parichild stepped safely into his cance no shors were fired. Indeed, hay first hay we passed numbers of musk oxen, without molesting them in may way other than trajing to photograph them. A notable fact in recard to the musk cose must this every animal seen, with hut one exception, was on the north side of the Thelon, or on filands in the river, on one covers on when there musk cose must that every animal seen, with hut one exception, was on the north side of the Thelon, or on filands in the river and seen musk cose, were must with upper nu islands, they immediately pluned into the water and sama mapping which they could be seen gallopping across the phase for miles.

Besides the musk oxen, the Thelon was evidently frequented on both sides by great numbers of caribon, as their tracks were everywhere to be seen, though few of the deer were met with until the lower stretches of the river were reached, their northward migration having preceded us.

Many broods of geese were also observed along the low grassy banks of the Thelon. They were of small gray species, with black necks and heads and white bands around the latter. Later in the season great numbers of moulting geese were met with, and thiry or forty of them knocked over with sitels for supplying our kettles.

Ducks and ptarmigan were also met with, though not in great numbers, whilst the spruce woods were enlivened by the songs of singing birds, notably American robins.

Bear tracks were twice observed on the banks of the Thelon, and on the return journey Mr. Fairchild was fortunate enough to fall in with and slay Mr. Bruin, after an interesting scrimmage. It was not a black bear, but a small silvery grav, or doubtless the barren land grizzly, as reported by Sir John Frauklin to have been found by him north of Great Slave lake. Unfortunately, the interesting hide was lost in a cance accident the day after it was procured.

Upon two occasions moose anticrs were found imbedded in the sand of the river bank, and this is an interesting fact, proving the existence of the animals somewhere on the river, possibly higher up, as the antilers might have been earried down by the spring ice. This discovery proves the truth of the report made by the Indians to Sir George Back in 1824, regarding the game on the Thelon, as well as assisting in identifying this river valley as the site of the early and remote but highly-favoured Indion settlement as well described but raquely located by Samuel Hearne.

In support of Hearne's story, and my belief that his reference was to the valley of the Thelon, it may be noted that some very old choppings were observed, as well as the decayed moss-grown remains of some very old earnps, whilst scarcely any recent signs of habitation exist.

The wooled, or partially wooled, banks of the Thelon, extend for a distance of about one hundred and seventy miles below the forks of the Hanbury. This distance is not to be understood as a continuous stricted of timber, but over that distance many fine spruce groves, as well as more or less continuous thinly-scattered trees are found. The largest trees measured from twelve to fifteen inches in diameter, but the average diameter would be about is inches.

The dimensions of the Thelon are noted from place to place where taken upon the map, but the following may be assumed as approximate averages for the measurements of the river from the conducence of the Hanbury to that of the Doobaunt, a distance of two bundred and twenty-four miles:--Width 250 yards, depth 6 feet, current 3 miles per hour.

The depth of channel in most places measured from 10 to 14 feet, but in a few places and bars were observed where there were not over three feet of water. Over the entire length of the above stretch of river not a single rapid, worthy of the name, exists. At several points very swift currents were met with, but nothing too heavy to run either down or up with our ennows, for in ascending the river—having a strong, for breze—we sailed up through the worst places.

MEETING ESKIMOS.

About twenty miles below the last woods on the Thelon, some conspicuous land marks, oridently recently exercide by natives, were observed on a high point of the main shore as well as on an island opposite to it. Here the river made a sharp bend to the eastward, and upon following it we noticed the whole atmosphere permeated by an abominable stench, the cause of which was soon explained by the ecurrence of the putrifying carcases of hundreds of dead deer, strewn thickly along both shores for a mile or more. The cause of this unvoluted slaughter was not very apparent, but it

was thought at first that the poor brates might have been caught by the apring ice flow and drowned. The subsequent discovery that a few of them were carred and deprived of their choice parts, created the suspicion that it was the work of natives, and the belief was strengthened by the discovery of an Eskimo encampment at the lower end of the string of arcreases. Upon going ashore 1 mude inquiries at to the cause of the fearful slaughter of deer, and was told that it was due to the spring ice, the tranth of which, however, I am inclined to doubt.

The encampment consisted of three or four lodges, and thirty-three souls in all, chief amongst whom was an old coast Eakimo, named 'Fung-a-wa-look', commonly known by the traders at Fort Charchill as 'Cheeseeloth.' With him, as well as with one or two others our archdeneon was nequainted, and one of them land met me in 1593, so we found ourselves amongst warm friends.

Suspecting that we would be in meed of more mocessins on our return journey, I took occasion to order as many pairs as could be made by these people against our coming, and after distributing a few presents of tobaceo and munumition, and taking their photographs, we pashed on down stream a farther *i* distance of about treavity five miles, when a small lake was reached. Upon sniling into it we were suddenly overtaken by a severe gale which obliged us to put to shore and seets a friendly harbour, which we happily found in the niek of time; for we had no sconer got ashore than the surface of the lake was a sheet of foam. Nor did the gale pass as quickly as it had come, but continued the next day and the next. Although we were now beyond the limits of the growing timber we were happily not without fuel, for the little bay in which we had found refuge was filled with drift wood, and kidewing such a commodity must soon become scaree, advantate was taken of our enforced detention by baking up a lot of flour, as well as obtaining a set of observations for the determination of our position.

From such determination as well as from my survey. I found ourselves to be no great distance from the confluence of the Doahaunt river, where we had first seen drift wood in 1893, and deeming it inexpedient that our whole parts should proceed farther to Hudson bac, over a route which I had already half surveyed, I dedidd to divide our party here, sending Mr. Fairehild, accompanied by Archdeagen Lofthouse, to complete the survey of Aberdeen, Schultz and Baker lakes, and to resurvey the whole of Chesterfield inlet, whilst I should return up the Thelon and devote my personal attention to the unner part of the river and the divide country.

Acting upon this decision, I prepared the following instructions and hand d them to Mr. Fairchild :--

INSTRUCTIONS TO C. C. FAIRCHILD, C.E.

July 13, 1900.

C. C. FAIRCHILD, C.E.,

Slave Lake, Chesterfield Inlet Expedition.

DEM SNR.—Since in the best interests of the exploratory work we have an hand, it seems advisable that henceforth our party should be divided. I breedy transfer to your charge that section of our work extending from the mouth of the Thelon river at Aberdeen lake to Hudson bay.

You will take with you two of our cances and four num as voyageurs, viz, := Monette, French, Acres and Kiplinz, Mr. Lotthouse will also accumpany you as far as Hudson bay and assist you with micrometer and other work. He will probably leave you at the coast, but before he does you will obtain from him him interorolgical record and instruments, as well as any natural history specimens he may have, and carefully preserve the same for me.

From the time of his separation from your party you will endeavour to continue until the conclusion of your work the meteorological records with as much regularity as possible. For the performance of your survey, I commit to your charge the following instruments, viz. :---

1 dip circle, 1 solar compass with tripod, 1 prismatic compass, 1 micrometer telescope, 1 pair of field glasses, 1 cance log, 1 chronometer, No. 0550, and 1 aneroid. And as I am personally responsible to the 'department' for these instruments, I request that you take every reasonable care of them.

Your method of survey will be as follows :--When practicable your distances will be measured by the cauce log, and your bearings with the prismatic compass. As frequently as possible you will ascertain the magnetic variation by means of your solar, and also latitude and time observations by means of the dip circle. With the same instrument, as frequently as practicable, you will also determine the 'dip' and total force. In Chesterfield inlet where the currents may be too swift or variable to admit of the advantageous use of the log, you will measure your distances by means of the micrometer and discs, which in order that the graduation of the scale may correspond to tenths of a mile may be set at a distance of 13-36 feet centres.

With a view to solving the problem of navigation, you will as often as time will permit, ascertain the depths of lakes, rivers and the inlet. As portions of Aberdeen Schultz and Baker lakes were surveyed by me in 1893, and maps of such works are submitted to you herewith, you will devote your attention chiedly to the unsurveyed shores, whilst in the Chesterfield inlet the whole requires to be surveyed if time permits.

For the support of your party you will have seven weeks provisions to take you to the bay and back to the Hambury river or west branch of the Thelon, from which point to Fort Reliance you will have ample supplies in the four caches along our route, the location of which you will know. In addition to the above supplies you will take two riles and 300 rounds of ammunition, besides two fish nets and hooks for the purpose of providing your eamp with fresh meet and fish.

It is probable that you may reach Hudson bay by the 25th of this month, and if so you will be able to commence your return journey within a day or two. In any case do not leave the coast later than August 1, as it is necessary that you shall reach Fort Reliance by September 15, in order to meet the steamboat which I have engaged to take you and party to Fort Smith. At Reliance or Resolution you will likely receive official instructions addressed to me. If so, you may open and read them and act in accordance with the same.

The cost of transport of our party and outift, including dogs, to Fort Smith, was agreed upon at (\$100), one hundred dollars. Keep of dogs was to be seven skins each and four nets. These, and any other accounts of our party, you will please certify in wn name. I will arrange for the payment of your party at Winnipeg, and in the meantime you will be able to obtain what goods or eash you may require from any of the officers of the Hudson Bay Company.

Such of our goods as were left in cache at Resolution and elsewhere, you will please take out with you or ship to ny address at Hamilton, depending upon yoau facilities for transport. You will also be governed in this regard by instructions you may receive from Ottawa. Herewich I inclose a note addressed to the officers of the Iludson Bay Company, instructing them to supply you with what goods or eash you may require and to charge the same to my account. Please have all accounts made out in triplicate and retain one copy for my use in making a final settlement of accounts.

In regard to your survey of Chesterfield inlet it is desirable that you should ascertain the range of the tides at various dates and localities, also the direction and rates of tidal currents, the depth of water and nature of bottom at places suitable for anchorage, as these are questions which affect navigation.

Requisitions for railway tickets for yourself and party will be supplied you at Edmonton. I have the honour to be,

have the honour to be, Your obedient scrvant,

J. W. TYRRELL, D.L.S.

In response to these instructions Mr. Fairchild assumed charge of the castern section of our work, and carried it through most successfully.

The following is his own report :--

MR. C. C. FAIRCHILD'S REPORT.

CHIPPEWYAN, November 12, 1900.

J. W. TYRRELL, D.L.S., &c.,

Slave Lake, Chesterfield Expedition.

DEAR SIR,—Acting under instructions from you, bearing date of July 13, 1900, I beg leave to report as follows :—

I proceeded from our point of separation with the survey, according to instructions, as far as Hudson bay, where I arrived on July 31, and returning completed the survey on the inlet on August 4.

Owing to the high winds prevailing during the trip, I was unable to make such headway as would warrant a micrometer survey of the inlet, but I tied the traverses of north and south shores together, and also took observations for time and latitude as often as possible.

The magnetic variation on Chesterfield inlet I found very erratic or variable, and no doubt any difficulty in plotting the survey will be due chiefly to this fact.

I was unable, owing to the short time at my disposal to make anything but a cursory examination of the general depths of the water tracered, but I took soundings enough to satisfy myself that vessels drawing 10 feet of water would have no difficulty in travelling from Hudson bay to the west end of Baker lake. Here boat navigation must end as far as the river between Schultz and Baker lakes is concerned, owing to rapids at either end of the river that would in low water not permit of the passage of any ernfaltager than a York boat.

The south shore of Aberdeen lake we found generally low sandy soil, with a few rocky ridges. The shore was stream with driftwood for about 30 miles from the west end of the lake ; beyond this point not a vestige of driftwood was seen, excepting of willow, which grows along the whole route traversed.

The south shore of Baker lake is also generally low and sandy as far as the point about 20 miles from the east end; here the contour plunges suddenly into bold rocky ridges, similar to the shores of Chesterfield inlet.

Chesterfield inlet in the main channel exceeded five fathoms in depth at all points tried, and soundings were only taken when I could see the bottom, which was plainly visible at 30 feet and even more.

Some difficulty would be experienced at the west end of Baker lake to find a suitable landing place for a vessel of any size, owing to the prevalence of saud bars.

During my return trip I succeeded in killing a bear, which I believe was of the species spoken of by Richardson as the barren land grizzly ; however, I do not believe that they abound in any numbers, as we saw only one other track during the entire trip.

I regret exceedingly to have to report that while I regard the trip as highly successful imasfar as I covered all the ground laid out. I had a cance accident on the Thelon river on my return trip. My cance was capsized in about 24 fect of water, and while no lives were lost, the solar compass, prismatic compass and camera could not be recovered.

The plans and field notes, which I transmit to you herewith, will give you the information gathered during the trip.

I have the honour to be,

Your obedient servant,

C. C. FAIRCHILD.

2

UPPER THELON.

On the morning of July 16, the gale having subsided sufficiently to admit of travel, Mr. Fairchild, with two canoes and party of five, set off for Hudson bay, whilst I, with the one remaining canoe and two men returned up the Thelon, with the intention of exploring the upper part of the river, and possibly getting through to Lake Athabasea, in which case I might be able to catch the last Hudson Eay Company steamer going up to the landing, and get out somewhat earlier than Mr. Fairchild. However, this was all uncertain, as it was imposible for me to know what I should be able to do in these regards. At: Fing-a-wa-look's' camp on our way up stream, I procured the few moceasins they had for us, and they were much needed before we got out of the country, for as my men tracked the canoe up stream, the sharp rocks and stones over which they had to us, and, two try requires of shoces a day.

On July 23, as we were working our way up stream, we overtook a large band of earlbou moving southward, and we were highly pleased to meet them, since we were quite out of meat. Several were shot, and a good supply of venison taken along with us, to be dried at the earliest opportunity.

The weather, which had set in bad about the middle of the month, continued so for two weeks, causing us some delay, and a more unpleasant trip up the river than we would otherwise have had.

In passing some of our former camping places, it was observed that the water of the river had fallen about two feet from its level of two weeks previously.

On the 25th, we reached our old camp at the Forks and there remained for a day or two in order to get a rate for my chronometer as well as to dry our meat. These objects having been accomplished on the last day of July, I turned my attention to the upper portion of the Thelon, which was found from the forks up to be obstructed in sevent] places by shallow rapids. The general trend of this part of the river is southerly, and its banks which are more thinly wooded than farther north are comparatively low and sandy with grassy flats at some places—particularly towards Eyeberry lake—about fifty miles up. This lake was so named because of the abundance of cyc-berrise which we found on its shores and islands. About ten miles above or south of Eyeberry lake, a small river fifty yards wide was observed emptying into the Thelon, and south of it the river banks became suddenly much higher, and the river channel more confined and torucus.

Spruce and tamarac groves were also becoming more frequent, though still scanty enough. The average elevation of land was from 50 to 80 feet above the river, which in width varied from 100 to 250 yards, and in depth from two to six feet.

Its mean velocity was about three and one-half miles per hour. Flood water marks here as well as on the lower part of the river were observed as high as thirty feet above ordinary water level.

In August it was observed by Fairchild to be three feet higher.

At about ninety miles the country again becomes more open and prairie like, with low sandy river banks. A few miles further up the banks are composed of coarse gravel, and rise to a height of eighty or ninety fect. The rock formation which makes its appearance at several points along the river banks, was observed to be sandstone, and so on the general character of the river and ecuantry continued much the same for a distance of 128 miles, when the stream becomes divided again, and both branches rapid and ahallow. At their confluence was also observed the junction of sandstone that two weeks, and the prospect of increased difficulties haded. I came to the conclusion that it would be unwise to attempt to pash through to Lake Athabasea—a probable distance of 500 miles further by my route. It seemed to me preferable and more strictly in line with your instructions, that I should rather endeavour to explore c sevent norm across the "Divido" to Artillery lake, and recollecting the small tive for a far any nossible and thence cross by the castest route to Artillery lake.

ACROSS COUNTRY 160 MILES.

Having decided upon the above plan of action, we easily returned down stream to my new point of commencement, and on the 18th begun to ascend my west branch. Its course took me as nearly as could be in the direction of Artillery lake, but I was not long to follow it, for by noon of the same day we had reached the head of navigation for so heavily loaded a cance as ours. Not wishing to be thwared in my object, I now decided to send my two men with the cance, around by the way we had come, to Artillery lake, and that I would walk across alone.

It seemed that there could be no great difficulty in doing so, for the distance in a straight line 1 knew to be only about eighty miles; it the season was still early and there were now plenty of deer roving over the country. Thus viewing the problem, 1 sent my men back with the cannee and its contents, and having selected my necessary outfit for the tramp, bundled it up into a neat pack of about fifty pounds and started off. It did not feel heavy at first, and the weather being fine 1 made fair progress, but as the day wore on, my pack became burdensome and by evening 1 was quite ready to lay it down and ercep into my sleeping bag. This first day's march, which eover diffurce niles, was along the course of the stream, over rough hills of guess sparingly wooded for a distance of ten miles only from the Thelon. At a point eight miles disformation was first noted. Its strike was observed to be north 15° cast (astronomical) and dip 70° east.

My first day's march took me to the shore of a small lake, which of itself formed no serious obstruction to travel, but may be mentioned as the first link of a chain which was to cause trouble. The lake is about four miles long, but of very irregular shape. Its cast shore is conspicuous because of a high ridge of white sand which has a bearing of south 63° east. Because of the irregularities of the shore and the impossibility of seeing any great distance ahead, it required a twelve mile tramp to get free from this lake, and that represented my second day's journey. My rations were obtained from the careass of a deer which I had shot, and some biscuits which I had brought in my pack.

On the morning of my third day, only three miles from my 'camp' I came upon a large lake-to which I have taken the liberty of attaching my own name—since I am sure it has never been, and perhaps never will be, of as much interest to any one cles as it proved to me.

Ascending the highest convenient hill, I examined the lake as critically as possible with my fine field glasses. Its general bearing lay nearly north-cent and southwest. Its southerly shores appeared to be only five or six miles distant; but its uortherly boundary I could not determine, being apparently limited only by the blue hazy distant hills. Having no boart or timber of any description with which to make a raft, I turned my steps towards the south, as the scenningly casiset way of getting past this obstacle, and for three miles or threabouts I got along all right. Then I was suddenly confronted by a large stream forming the outlet of the lake. This I descended for some distance in the hope of finding a ford, but finding none, I stripped myself and waded in, hoping to find some place where I could get my outfit across, but in this I was disappointed, and the water, too, was very cold.

I had no alternative but to return and try the north end of the lake, which I dat and, to make a hort story of a long weary tramp, over nock hills and through soft muskeys, ankle deep in water, after three days of consting i. I reached the north-west angle of Tyrrell lake, and there was no love lost in parting. I had now been five days on my tramp, but out of a distance of sixts-three miles correct. I had only male sixteen miles westerly out of a necessary cipity : and the contemplation of this was anything but encouraging, for I had counted on reaching Artillery lake within used days at the longest. There was, however, no possibility of reginning me enne may, so my only possible course was to push ahead regardless of what time the journey might take, or what new difficulties it ingith present.

The character of the country continued much the same, the rounded bare hills of gneiss being separated by wet muskegs, or as commonly, small lakes and ponds which covered a large percentage of the country and formed a great impediment to travel.

The morning of my sixth day set in with a chilling north-east wind and pelting rain, which not only saturated my clothing, but also the moss, so that I could make no fire. Having a small flask of brandy with me I refreshed myself with a little of it in: water and a biscuit, and tramped on, making thirteen miles during the day. The night being dark at this season, it was not possible to travel continually, so, wet and shivering as I was, I lay down on the rocks in the pelting rain to try and sleep, but this was not to be, for my bed soon became a puddle of water, and I was uncomfortable indeed. I earnestly longed for the daylight, so that I might get up and travel, and at length it came, but still the cold rain came down, so that I could only wring out my single blanket and start on without breakfast. A deer skin which I had carried in addition to my blanket had become so water-soaked as to be too heavy to carry and was left behind. Fortunately by noon on the seventh day, the clouds broke and let the warming sunlight stream through upon me. Thus I was enabled to dry my clothes, and still better, ere long, to make a fire and cook some venison, which was much appreciated. At night as I went into camp (more properly my blanket). I shot a fine fat buck, and cooked as much of it for future use as I could, with the little moss I could

The 20th of August was my eighth day out, and I had made only thirty-three miles of westing, but now the weather seemed to have cleared, so I pushed on with fresh courage, passing several small lakes and bringing up on the summit of a hill overlooking a larger one.

Here, observing the approach of a heavy storm, I proceeded to fortify myself as well as my blankst and canras wrapper would admit of, and so fairly well weathered out a bad night. But the next day was intolerable. I endeavoured to push on, but so cold and drenching was the rain that I shivered even as I travelled, under my watersoaked burden. Later in the day the weather became so thick, that I was as one walking in the dark-mot knowing what was before me—and soon found myself almost entirely surrounded by water. I was now forced to await an improvement in the weather, and so, partaking of a wet biscuit, for I had nothing dry, and a drink of brandy, I lay down on the sand.

All night the cold rain came down in torrents, so that I was perfectly saturated with it. As the morning dawned conditions were not improved, for the rain had changed to snow and elothed the landscape in her chilling garment of white. It left me in an extremely unconfortable condition, to say the least, being without shelter, fire or cocked food, but the worst seemed to have passed, for at elevan o'clock the next day the sanight broke forth again and brought me much needed relief.

With the clearing weather I found myself to be on a long high point of sand, reaching far out into a lake, from which it would be necessary to retreat and make a detour, but anything was better than lying shivering in the darkness and rain, so I resumed my tramp, or track survey as a real pleasure, and hoped for better days, but they were not to come just yet. I took advantage of all the daylight the 23nd could afford me for travel and made a good days, but the next brought a repetition of the storm, a gale from the north-east, with driving rain and sleet—o severe that I was forced to seek belter, which to some extent I found on the lee side of nock. Here I spread my enavas, and wrapping my wet blanket about me, remained for two days until the storm of wind, rain and snow kad spent its fury. My biseuits were now all gone, and the only available stimulant I had at this camp was the remainder of my flask of brandy, of which I glady availed myself.

My condition had become decidedy serious. I had not slept a night since I had left my cance, and this wretched weather and lack of food was already telling seriously upon me. The barren ground is a most inhospitable place in bad weather, but having exposed myself to its inhospitality there was only one thing for me to do, and that was to get out again as best I could, and this I was quits reaslved to do.

The morning of the 25th brought a slight improvement in the state of the weather, so that I was able to get on my feet again and stagger along under my load made double heavy by its weight of water.

By noon the rain ensated entirely, when I was able to make a heather fire and cook some ventisen which revived me much. The next morning I found a quarter of an inch of next ice on the ponds, but resting under way I soon came to the shore of a very large lake—the one I believe shown by Back on his Indian sketch, and recently named Camuchel I lake.

Its shores are formed of high white sand ridges, and afforded good travel which was most acceptable to my sove feet and worn out mocessies. The country in the vicinity of Campbell lake presented a less rugged and more pleasing appearance than it had done since leaving Thelon. Berrice of several kinds had again made their appearance and deer trails were well defined and deep, although it should be noted that these latter were everywhere to be seen throughout my fourner.

Fifteen miles were travelled during the day, chiefy along the shores of Compholl lake, and the next day, my fifteenth out, a similar distance was overed and my first sight of a grove of them, but they meant much to me, not only in administering to my immediate comfort, but as foreshadowine the end of my diffeult journey.

Before noon of the following day I had reached my supply eache on the shore of Artillery lake, and completed an uncomfortable tramp of 160 miles.

REUNION OF PARTY.

At the 'eache' my fish hooks had evidently done effective work, judging from the elaw marks on the trees, and the broken condition of several of the hooks. The provisions were found just as I had left them, and I was not long in getting them down and making a sing earmp in the spruce grove. My eance and two men had not yet reached the 'eache,' but only two days after my arrival they made their appearance with the lond in good condition.

A rest of several days was now indulged in, since the weather continued very bad, but it grave me an opportunity to overhaul uny outfit, repair mocessins, and pack specimens, e.e., for shipment home. On September 4 and 5, I was enabled to complete my unfinished survey of the north end of Artilley lake, and having done so, I left a letter at the mouth of the Casha river for Fairchild, instructing him where to meet me, and turned about to proceed to Fort Reliance.

A head wind springing up, however, I was induced to go ashore nutil it might moderate, and meanwhile was overtaken by Fairebild, who had received my note within an hour of the time I had posted it up. We were now again a united party, and all in the best of health and spirits.

Mr. Fairchild's report has already been submitted, and there was now nothing left for us to do but get home as quickly as possible. High winds in Artillery lake caused us some delay, but by the evening of September 13 we were all once more enemped at Old Fort Reliance.

RETURNING HOME.

As arranged with Mr. Gaudette in the spring, we were met by him in his steamer argo at the old fort on the 15th, and the next day were taken in tow, bound for Fortz Resolution and Smith. Unfortunately on the 20th, at Stony island, only twenty-five miles from Resolution, we encountered a gale which drave the Argo on to the rocks, smashing her wheel, keel and rudder.

Fortunately no further demage was done, and after effecting temporary repairs, we got her into Resolution on Sunday morning, September 23, three days behind time.

Four more days were then spent in requiring the *Arga* mure substantially for her trip up the Slave river to Fort Smith, so that it was late on the 27th hefore, we wave regain under vay.

25-jij-9

At Resolution I learned with regret that many of our faithful dogs had died during the summer under the tender (?) care which they had received, but the surviving ones were placed in the cances and taken with us.

On the evening of the 30th, when about haff way to Fort Smith, we were again doomed to misfortune. This time it was our engine that broke down, and one day was lost in repairing it. Besides, her steaming capacity was seriously affected through the accident, so that it was the evening of October 4 when we reached Smith, and the 10th when with our three cances we sailed up to Chippewyan. Through our unfortunate steamboat experiences we had lost just ten days on my reekoning, and were consequently too late by all necounts to make Athabasea landing by open water.

I decided, therefore, to accept what seemed the inevitable and remain at Chippewyan where we could obtain supplies and lodgings, until such time as we might be able to proceed with our dogs. This we did, and through the kindness of Mr. Drever, Mr. Fraser, Rev. Mr. Warrick, and others, our stay was made very pleasant indeed. One of my cances was disposed of to the Hudson Bay Company, whilst the remaining two were well painted and placed in the company's charge for safe keeping.

By November 14 the lake ice had become set and sufficiently strong to admit of our passage, so with three teams of our own, and two others which I hired to assist us, we set out upon the final stage of our journey, and without entering into details thereof, arrived at Edmonton on December 6, nine months and twenty days from the date we had left there.

SUMMARY NOTES,

The more important material results derived from my exploration are briefly as follows :---

Ist. The obtaining of a correct topographical map of the routes traversed, in connection with which may be mentioned the discovery of the Thelon river-one of the finest in Canada—navigable for river steamers or other boats of light draught all the way from Hudson bay to the forks of the Hanbury, a distance of 550 miles, excepting perhaps at two rapids on the river above Baker lake, where some improvement to the channel might be made. Just what length of time this route may be open for navigation I am unable to say precisely, but would judge that the river portion must be open at least five months, and the inlet and larger lakes about a month less, i.e., during the months of July, August, September and October.

Thus the possibilities and extent of navigation from Hudson bay towards the west, by way of Chesterfield inlet, have been pretty well determined.

In the Mackenzie basin, Charlton harbour, at the head of Great Slave lake, limits navigation from the west, and on its northern shore by the mouth of the Lockhart river is as pretty a town site as can be found in Canada. Between these two terminal points the only existing way of communication is by means of the excellent cance route followed by my party.

For heavy commercial traffic a railway could be constructed without serious engineering difficulties, by avoiding the lakes along the Hanburr river route, there being no great elevations or other great difficulties to overcome, unless it be the remoteness of the district and the scarcity of timber.

Should any kind of electric transmission become desirable, the two grand water powers of the Lockhart river and Dickson canyon could be utilized to great advantage during the open season.

Because of the remoteness of the locality, the severity of the elimate, the scarcity of timber and high cost of freighting supplies. &c. construction work of any description on the divide must necessarily be expensive; but beyond this, with the information obtainable of so wide a district in one short season, it would be impossible for me to prepare anything like a reliable estimate of the cost of either a steam or electric read.

Besides the discovery of the Thelon as a commercial waterway the resources of its valley should be of great interest, particularly its timber supply and herds of musk oxen, both of which are of great value to Canada.

For the preservation of the nusk oxen-which may be so easily slaughtered-and are already rapidly diminishing in numbers, I would suggest that the territory between the Thelon and Back rivers be set apart by the government as a game preserve.

The chief food supply of the country lies in its great bands of caribou and its fish of various kinds, which are abundant in all the lakes and streams of the district.

The Thelon valley, though affording fine grazing lands for musk oxen and caribox can scarcely be looked upon as a desirable agricultural district, although I judge from the growth and great variety of plants observed there, that some of our cereals and most of our hardy regetables could be grown in the Thelon valley.

I regret that the classified list of my collection of plants, which Professor Macoun, of the Geological Survey Department, has kindly undertaken to prepare, is not yet available, but hope that it may be before this report goes to print.

As to mineral products, from what mention has already been made of the rocks, it may readily be judged that the Thelon valley has little to offer.

With the Eskimos, however, many articles, such as arrow heads, spear heads, skinning knives, &ce, were observed, which have been beaten into form from native copper, which as they explained to me had been picked up as pebbles from the ground somewhere far to the northward near the salt water.

To this report, for convenience of reference, 1 am attaching, Irt. A table of distances and elevations. 2nd. A table of information in regard to portages. 3rd. A table of determination of latitude and magnetic declination. 4th. A complete meteorological record, and 3th. (if it is available in time) a classified list of the plants collected on our iourner.

I have the honour to be, sir,

Your obedient servant,

J. W. TYRRELL, C.E., Dominion Land Surveyor. APPENDIX No. 1 .- Elevations and Distances.

Place to Place.		Distances.	
Education to Lacela-Biehe Lack-ia-Biehe to Fort McMirrary Fort MoMuray to Fort Chappenyan Fort McMirrary Control Control Control Fort Revolution to Fort Relation Fort Revolution to Fort Relation Fort Revolution to Fort Relation Fort Revolution to Fort Relation Height of Land to Thelon river. Thele ray to Every lake Bevery lake and river Schultz lake Revery Lake Schultz lake Taking lake Taking lake	520 520 1,188 1,234 530 133 130	Miles. 180 255 175 120 126 233 25 90 165 224 33 55 21 28 30 65	
Edmonton to Hudson bay, via route		25 130 1,982	

Place.	Dist. from last Port.	Length.	Rise or Fall.	Side of River.
Is pertage from Charlton harbour 2nd "" We "" Set "	$ \begin{array}{c} \text{Miles}, \\ & & $	$\begin{array}{c} Yards,\\ 5.720\\ 400\\ 100\\ 1,000\\ 1,000\\ 700\\ 9250\\ 2250\\ 2250\\ 2250\\ 2250\\ 2250\\ 9400\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 800\\ 100\\ 1$	$\begin{array}{c} {\rm R}, 570\\ {\rm F}, 570\\ {\rm F}, 56\\ {\rm R}, 122\\ {\rm R}, {\rm R}, 122\\ {\rm R}, {\rm R}, 122\\ {\rm R}, {$	Left Right Left Right Left " Right Left " Right Left Right Left Right Left Left Left Left Left Left Left Lef

Appendix No. 2.—Portages.

т

APPENDIX No. 3 .- Latitudes, Longitudes and Declipations.

1	lace.	Date.	Latitude.	Lon tude.	Declination
		1900,			
Resolution		April 2	61-10-14	113-46-30	38 - 20 E.
11 miles E. of Fou	d-dn-Lac	. 24	62-43-20	111-23-07	37 15
Fort Reliance		May 8	62-42-02	108-49-17	37 = 15 - 0.000 37 = 20 - 0.000
Pike's portage, St. N and French lak			62-42-02	108-44-55 108-24-43	41 50
N. end Kipling lak	e	22	62.48.05	108-25-31	38 40
N. end Burr lake. S. end Artillery la	e	25	62-49-29 62-51-39	108-20-06 108-21-72	39 - 50 - 38 - 45 -
Sta. 142 F., Artille	se arv lake	30	62-56-13	108-14-03	38 45
S. end Crystal islan	ary lake ad., ls, Artillery lake.	June 2	63-((2-02	107 33-10	
Camp in last Woos	ls, Artillery lake.		63-04-10 63-34-04	107-37-45 107-00-06	39 00 35 - 40
Chuton Colden lak	e. Sta. 212.	24	63-41-48	107-08-46	30-40
	ls, Artillery lake. 22 e, Sta. 212. 219 230	- 25	63-40-12		
	- 230 248	. 26			41 00 38 35
Sifton lake	- 248	28	63-44-42		20 10
	258	July 1	63-39-15	105-45-03	48 & 51
	258 297 314	1 2	63-40-15 .	100-40-00	$\frac{37}{27} = 00$ $\frac{27}{20} = 00$
	- 321		63-35-45	105-35-36	44 - 10
	- 324 338	. 3	63-32-56		22 - 50
	362	1		104-37-45	20 00
	. 372	. 4	63-39-07		
	- 437 - 413 - 477.	· 5 6	63-44-35 63-43-00	104-30-34	28 15 -
Forks	477		63-37-52	104-17-46	32 00
	- 491 505	- 9	63-48-01		32 50
	529	- 9 9 - 10 - 11 - 12			32 .00
		. 11	61-17-40		
	625 	. 12	64-22-09		34 - 30
		13			35 00 0
	- 664.	- 13	64-73-31		
Beverly lake	- 666 ·	August 1	64.4 5-26 63-33-12	100-33-00	3-1 00 m
	. 759.	- 4			30 00 5
	760	- 4	63-00-59 62-55-00	104-34-55	30 00
	- 766 - 773	6	0240.00	104-34-33	27 00
	817	7			28 00
	- 869		62.32.22 62.25.14	104-01-04	36 - 00
Deobaunt river	198 F	July 16	02-20-14		31 30
Aberdeen lake	218 F. 231 F.	- 19			27 00 - 5 1 - 00
Baker lake	- 262 F.	- 24			16 30
	- 273 F				1 20
Chesterfield inlet	284 F	26			4 45 6 50 W
	314 F. 324 F.	- 28			1 11
	- 324 F.	30			5 45 7 50
	335 F. 340 F.	· 31 · 31			7 - 20
	400 F.	August 4			1.1 00 E
	at and Thelon rivers,	16			21 30 -
500. 402 P.		10			et 30

i))

133

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

	Lofthouse.										
	Place.			Da	te.	Hour	Barometer.	Thermometer.	Wind.	Weather-Notes.	
				190	ю.			٥			
Fort R	esolution	1, G. S.	L	April	1	6.00 a.m.	29.46	22.0	S.E.	Fine, willow buds opening.	
1					1	12.00 noon 6.00 p.m.			S.E. S.E.	Fine.	
					2	6.00 a.m.	29.24	20.0	S.E.	Fine, strong breeze and cold.	
		11				12.00 noon	29.16	42.0	S. E.		
					2	6.00 p.m. 6.00 a.m.	29.04 29.00	41.0 33.0	S.E. S.W.	Fine, wind falling. Fine, fair breeze.	
					3	12.00 ncon		40.0	S.W.	Tille, tall offeeze.	
						6.00 p.m.	29.14	35.0	W.	Fine, almost calm.	
					4	6 00 a.m. 12.00 noon	29.17 29.16	22.0	N. S.W.	Fine, slight breeze, very mild.	
					4	6.00 p.m.	29.11	38.0	N.	Fine, slight rainfall to-night.	
					5	6.00 a.m.	28.89	34.0	S.E.	Fine, heavy rain during night.	
						12.00 noon 6.00 p.m.		33.0 30.0	W.	Fine, strong breeze. Fine, slight breeze.	
					6	6.00 a.m.	29.09	20.0	S.E.	" "	
					6	12.00 noon	29.04	50.0	S.E.	0 0	
1					6	6.00 p m. 6.00 a.m.	$\frac{28.96}{28.76}$	$\frac{44}{37.0}$	S.E. E.		
					7	12.00 noon	28.68	44.0	E.	Fine, heavy rain all morning.	
					7	6.00 p.m.	$\frac{28}{29} \frac{75}{14}$	40.0	8. W.	Fine, slight showers.	
					8	6.00 a.m. 12.00 noon		30.0	X.W.	Fine. Fine, hundreds of snowbirds	
										about.	
					8	6 00 p.m.	29:56 29:97	33°0 19°0	N. W.	Fine, willows in full bud. Fine, strong breeze.	
					9	6.00 a.m. 12.00 noon	30.07	26.0	N.	r me, strong breeze.	
					9	6.00 p.m.	30.15	26.0	N.	Fine.	
					10	6.00 s.m.	30°15 30°18	$\frac{22.0}{28.0}$	N.W.	Fine, slight breeze.	
					10.	12.00 ncon 6.00 p.m.	30.18	28.0	N.W.	Fine, slight breeze. Snow falling and soft. Fine.	
		11			11	6.00 a.m.	30.15	20.0	Ν.		
liemile	N.E. F	t. Reso.	lution.		11	12.00 noon	30.14 30.04	36.0	S.E. S.E.		
Stoney	Island, C	rt. Slav	e L ke	11	11.12.12	6.00 p.m.	29.77	26.0	S.E.		
					12	12.00 noon	29.59	41.0	S.E.		
. White		11			12	6.09 p.m.	29°45 29°41	32.0 28.0	S.E. N.E	Very strong wind.	
White	Island, a	bout 50	miles	11	10	6.00 a.m.	20 41	20 0			
N, of	Fort R	esolutio:	n		13	12.00 noon	29.46	32.0	N. N.	Regular blizzard.	
		14			13 14.	6.00 p.m. 6.00 a.m.	29:56 29:80	$\frac{12}{6.0}$	N.	Blizzard still raging as hard as	
					14.	0.00 a.m.	20 00	0.0		ever.	
					14	12 00 noon	29.88	22:0	N.	Gale decreasing.	
				1.	14	6.00 p.m. 6.00 a.m.	29:94 30:03	$\frac{21.0}{16.0}$	N.	Fine, gale over. Fine.	
					15.	12.00 noon	29.99	32.0	S.E.		
					15	6,00 p.n.	29.82	30:0	S.E.		
					16	6 00 a m. 12.00 noon	29 42 29 26	30.0	S.E.	Cloudy, strong wind.	
					16.,	6,00 p.m.	29:09	38.0	S	a a	
					17	6 00 a.m.	28 99	34:0	S.E. S.	Cloudy.	
						12.00 noon 6.00 p.m.	$\frac{28.91}{28.86}$	38.0		Cloudy, rather strong breeze.	
					18	6.00 a.m.	28 84	32.0			
				- 0	18	12.00 noon	28 86 28 99	34.0 29.0	N. W.	Fine, strong breeze.	
					18.1	6.00 p.m. 6.00 a.m.	28 99 29 21	24.0	N.	Fine, strong breeze. Fine. Cloudy, fresh breeze.	
					19	12 00 noon	29:30	31.0	N.	Fine.	
					19	6.00 p.m.	29 · 39 29 · 39	$\frac{32.0}{24.0}$	S.S.	Fine, no wind. Fine, slight snowfall.	
					20	6.00 a.m.	20 39	24.0	1	T me, engas such tatt.	

APPENDIX NO. 4.—Meteorological Observations recorded upon Expedition by Rev. J. Lofthouse.

APPENDIX No. 4.-Meteorological Observations-Continued.

Places	Date.	Hour.	Barometer.	Thermometer.	Wind.	Weather-Notes.
	1900.					
White Island, about 50 miles N. of Fort Resolution	April 20. - 20. - 21. - 21. - 21. - 21. - 22. - 22.	$\begin{array}{c} 12.00 \text{ noon} \\ 6.00 \text{ p.m} \\ 6.00 \text{ a.m} \\ 12.00 \text{ noon} \\ 6.00 \text{ p.m} \\ 6.00 \text{ a.m} \\ 12.00 \text{ noon} \\ 6.00 \text{ p.m} \\ 6.00 \text{ a.m} \\ 12.00 \text{ noon} \end{array}$	$\begin{array}{c} 29 & 30 \\ 29 & 18 \\ 59 & 99 \\ 29 & 99 \\ 29 & 99 \\ 29 & 99 \\ 29 & 90 \\ 29 & 90 \\ 20 & 16 \\ 20 & 16 \end{array}$	$\begin{array}{c} 48 & 0 \\ 40 & 0 \\ 34 & 0 \\ 49 & 0 \\ 49 & 0 \\ 42 & 0 \\ 59 & 0 \\ 44 & 0 \\ 44 & 0 \\ 42 & 0 \end{array}$	S.E.E.S.S.E.E.S.S.E.E.S.W. S.W.	Fine, snow melting fast. Fine, snow birds about. Fine, snow birds about. Fine, summerlike weather. Fine, thes numerous, grees heard Fine. Fine, heavy rain during night. * very soft snow, melting
Red Rock siland	- 24. - 24. - 24. - 25. - 25. - 25. - 25. - 25. - 26. - 26. - 27. - 27. - 27. - 27. - 27. - 27. - 28. - 28. - 29. - 29.	$\begin{array}{c} 6 \ 00 \ \mathrm{p.m.} \\ 6 \ 00 \ \mathrm{a.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{p.m.} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{p.m.} \\ 6 \ 00 \ \mathrm{p.m.} \\ 6 \ 00 \ \mathrm{p.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{p.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{p.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{p.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \\ 6 \ 00 \ \mathrm{n.m.} \\ 12 \ 00 \ \mathrm{noom} \ \mathrm{noom} \\ 12 \ 00 \ \mathrm{noom} \ noo$		$\begin{array}{c} 40 & 0 \\ 42 & 0 \\ 50 & 0 \\ 52 & 0 \\ 42 & 0 \\ 40 & 0 \\ 33 & 0 \\ 34 & 0 \\ 34 & 0 \\ 34 & 0 \\ 34 & 0 \\ 34 & 0 \\ 41 & 0 \\ 41 & 0 \\ 40 & 0 \\ 34 & 0 \\ 40 & 0 \\ \end{array}$	S.W. E.E.E.E.W. N.N. N. E.E.E.W.E.W. N.N.N.N.N. E.E.E.W.E.W. N.N.W.	quickly, alight fall of rain. mothes and file numerous, dates atom; mosquite observed. representation observed. geven passing north, mosquites numerous, very warm, like watery.
Mean for month.			29 39	34.77		
Red Reck island, G. S. L . Deer island Fond du Lae Glacier island Holen cland, G. S. L Fort Reliance, G. S. L.	May 1 - 1 - 2 - 2 - 2 - 3 - 3 - 3 - 4 - 4 - 4 - 5 - 6 - 6 - 6 - 7 - 7 - 7 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	$\begin{array}{c} 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ p.m \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \\ 12 \ 00 \ noon \\ 6 \ 00 \ a.m \ a.m \\ 6 \ 00 \ a.m \ a.$	2878282282344444555555514272255 847888384838488888888888888888888888888	$\begin{array}{c} 0 \\ 286 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	N.N. EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	Fine Wet, heavy ran all meht Snow berrasine Fine
Pike's portage	5 8 9 9	12 00 n en 6 00 p.m 6 00 i.m 12 00 ncon 6.00 p.m.	2024435 2020555	$\begin{array}{cccc} 46 & 0 \\ 40 & 0 \\ 31 & 0 \\ 33 & 0 \\ 42 & 0 \end{array}$	N.E. E. E. S.E	Fine. Wet, snow and show Fine, readings 10 transformed ak level.

135

1-2 EDWARD VII., A. 1902

APPENDIX No. 4 .- Meteorological Observations-Continued.

-							
					Thermometer		
				÷	Tet.		
PI	lace.	Date.	Hour	÷.	00		Weather-Notes.
				Barometer	E	-1	
				E.	1ei	Wind.	
				~	E	3	
		1900.					
Pike's portage		May 10 .	16.00 a.m.	29:29	36 0	S.E. N. W. N.E. N.E.	Wet, rain all night.
		. 10	2.00 noon	29.88	40.0	N. W.	Misty, rain.
		o 10	6.00 p.m.	29'46	34.0	N. E.	" showers,
		. 11	6.00 a.m.	29.56	36.0	N. E.	Fine.
			12.00 noon	$\frac{29.54}{29.51}$	44.0 35.0	E. E.	
		·· 11	6.00 p.m. 6.00 a.m.	29.49	31.0	N.E.	
10 10		· 12.	12.00 noon	29.45	43.0	YF	very strong wind.
		. 12	6 00 p.m.	29:47	35 0	N.E. N.E. N.E.	wind decreasing.
		. 13.	6.00 a.m.	29:54	36:0	N.E.	" jack pine on this port.
		в 13	12 00 noon	29.53	48.0	N.E.	
		13	6.00 p.m.	29.49	44.0	N.E.	
		· · · 14 .	6.00 a.m.	29.51 29.44	42.0	N.E. S.	Fine.
		·· 14 .	12.00 noon 6.00 p.m.	20 44 20 42	43.0	5.5	Cloudy.
		· 14 · 15	6.00 a.m.	29.29	42 0	S.W.	Fine,
		15	9.00 a.m.	29.32	57.0	S.W.	
		. 15	12 00 noon	29-29	60.0	S.W.	 ducks, geese and loons on Lockhart river.
		и 15.	3.00 p.m.	29:27 29:29	62.0 61.0	8.W.	
		- 15	6.00 p.m. 6.00 a.m.	29.29	53.0	S.W. N.E.	
		16	9.00 a.m.	29.30	67.0	N.E.	
		16.	12 00 noon	29.28	75.0	NE	
		u 16	3.00 p.m.	29.67	6610	N.E.	
		. 16	5.00 p.m.	29.26			Level of Great Slave lake.
		16	6 00 p.m.	28.67	60.0	N.E.	Harry lake.
		o 16.	8.00 p.m. 6.00 a.m.	28:67 28:48	54 0	S.E.	" French lake.
	Pike's port. route		9.00 a.m.	28:48 28:47	- 59.0	0. L.	Fine.
			12 00 noon	28 49	45:0	S.E. S.W.	Wet, rain commenced at 9, 30 a.m.
		. 17.	3,00 p.m.	28 50	52.0	S. W.	Fine, heavy showers until 3.30
							p.m.
		. 17	6.00 p.m. 6.00 a.m	28:53 28:80	50°0 37°0	s.w.	Fine, weather cleared.
		o 18 o 18	9.00 a.m	28 80	41.0	S.W.	
		. 18	12 00 noon		52 0	W.	summer weather.
		3.1	3 00 p.m.	28.88	61.0	S.E.	
			6 00 p.m.	28 88	54 0	S.E.	
		. 19.,	6.00 a.m	28.84	40.0	S.	
Acres lake		. 19.	9.00 a.m.	28.84	50 0	S.E.	
Kipling lake		. <u>19.</u> . <u>19.</u>	12.00 noon 3.00 p.m.	28-76 28-72	58 0 66 0	E.	Wet, showery.
11		n 19 n 19	6 00 p.m.	28.75	51.0	S.E.	Heavy thunder for 2 hour.
10			6 00 a.m.	28.69	52.0	S.E.	" rain from 8 p.m. till mid-
							night.
10			12 00 noon	28 71	60.0	S.E.	Very fair.
11		· 20. · 21.	6,00 p.m. 5 00 a.m	$\frac{28.67}{28.71}$	59:0 36:0	S.E. E.	Thunder and heavy rain during
		» 21	9 00 a.m	20 11	00 0	E.	night.
			9.00 a.m.	28 64	50 0	E.	Fine.
			12 00 noon	28 62	53 0	E.	
			3.00 p.m.	28 59	56:0	E.	141
		. 21.	6 00 p.m.	$\frac{28}{28}$ 61 28 56	48.0	E. E.	Showery. Rain nearly all night
		. 22.	6 00 a.m 9 00 a.m	28.56	49.0	E. E.	Cloudy.
		22.	12.00 noon		54 0	Ē.	Fine.
		. 22.	1.3.00 p.m.	28.58	59:0	E.	n have a
		22.	6.0) p.m.	28.62	51.0	E.	
		. 23.	6 00 a.m		36 0	E.	Cloudy.
		- 23.		28 76	36.0	E.	
Th		- 23.	6 40 a.m. 7 45 a.m	28:66		E. E.	Level of Burr lake.
Burr Edge		23.	9.00 a.m.	28:70	40.0	N.E.	alever of Touri Take.
		23	12 00 noon	28:73 28:73	41 0	N.E.	

iii

APPENDIX No. 4 .- Meteorological Observations-Continued.

Place.	Date.	Hom	Barrometer.	Thormometer.	Wind.	Weather Notes
Hurr hike, Pike's port, noute.	23. 24. 24. 24. 25. 25. 25. 26. 26. 26. 26. 26. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	េះ 20 ឆ្លុកក្មេះ ដូចជា៖ ដាក់ អ៊ុនម៉ាន់ អាម៉ាត់ ការស្តីអ៊ុនភូនភូមកនេះ និងខែចកក្តុកក្បារប្រជាប់ សន្តភិគតិតក្នុងក្នុងស្ថិតភិគតិតភិគតិតភិគតិតភិគតិកភិគតិភិគតិនិគតិតភិគតិភិគតិភិគតិភិគតិភិគត	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	S.W. S.W. N.W. N.E.	Fine, cod. strong brees. wijit detreasing. Sight wid. Fine. Sector and hundre, beyr and all highle. Relevy rational hundre, beyr rational hundre, sector and hundre, with the sector and hundre, beyr
	June 1 1 1 2	7 00 a.m. 12 00 no m 3 00 p.m. 6.00 p.m. 6 00 a.m.	25-59 25-565	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	N.E. N.E.	Fine, very strong breeze Storny, very heavy gale with snow.
	ой и от и и и и и и и и и и и и и и и и и	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	866222488888 888888888888	$\begin{array}{c} 34&0&0&0&0\\ 38&4&0&0&0&0&0\\ 38&4&3&2&2&0&0&0\\ 38&4&3&2&2&4&4&0\\ 48&4&4&6&0&0&0\\ \end{array}$	三三三三 かんかんめ	snow fail during night Fin . A (n. new ree during raght

i i

1-2 EDWARD VII., A. 1902

	Place.	Date.	Hour.	Barometer.	Thermometer.	Wind.	Weather-Notes.
		1900.		0	0		
Antillour In	ke	June 4.	6 00 a.m.	28.57	42.0	S.	Fine.
stronery in		. 4	9.00 a.m.	28.52	50.0	ŝ.	r me.
		. 4	12.00 noon	28.47	62.0	S.	
		. 4	3.00 p.m.	28.41	58.0	S.	a eagle's eggs found.
		. 4	6.00 p.m.	28 39	55.0	S.	Dull, gloomy weather.
		. 5	6 00 a.m. 9.00 a.m.	28:24 28:22	45.0 46.0	N.E. N.E.	Gloomy, slight rain. Rain started 6.30 a.m.
			12 00 noon	28.21	45.0	N.E.	Rain started 6.50 a.m.
				28.22	45.0	N.E.	
		. 5	6.00 p.m. 6.00 a.m. 9.00 a.m.	28.23	42.0	N.E.	Showers. Cloudy.
		· 6	6.00 a.m.	28:30 28:38	40.0	N.E.	Cloudy. " drizzling showers.
				98-42	43.0	N.E.	" drizzling showers.
		. 6.,	3.00 p.m.	28 49	44.0	N.E.	clearing.
			3.00 p.m. 6.00 p.m.	28.54	46.0	N.E.	Fine, breeze decreasing.
			6.00 a.m. 9.00 a.m.	$\frac{28.73}{28.74}$	42.0	S.E.	
		. 7	9.00 a.m. 12.00 noon	28 74 28 69	42.0	S.E. S.E.	
		. 7.	3.00 p.m	28.67	54.0	S.E.	
		. 7		28 66	52.0	S.E.	Passing clouds.
		8	7.00 a.m. 9.00 a.m.	28.61	46.0	S.	Fine, showers all night.
		· 8 · 8	9.00 a.m. 12.00 noon	28.62 28.61	54.0 52.0	S. S.E.	" few mosquitos. Cloudy.
			3.00 p.m.	28.62	54.0	S.E.	Cloudy.
		. 8.	3.00 p.m. 6.00 p.m.	28.62	54 0	S.E.	
		9	7.00 a.m.	28.67	48.0	S.E.	Fine.
			12.00 noon	$\frac{28.67}{28.65}$	$\frac{54.0}{55.0}$	S.E.	
		. 9	3.00 p.m. 6.00 p.m.	28.60	55.0	S.E. S.E.	
		. 10	6 00 a.m.	28 64	50.0	S.E.	pools frozen over in night.
			$12.00\mathrm{noon}$	28.61	62.0	N.	
		. 10	3.0+p.m. 6.00 p.m.	$\frac{28}{28} \frac{59}{59}$	$\frac{62.0}{54.0}$	N.	
		. 10	6.00 p.m. 6.00 a.m.	28.53	45.0	N. S.	" 1 in. new ice during night,
			0.00 10.111.	20 02	30 0	1 1.74	and frost.
		11	9.00 a.m.	28.62	58.0	S.	
		. 11	12.00 noon	28.59	62.0	N.W.	
		. 11	3.00 p.m. 6.00 p.m.	$\frac{28}{28} \frac{59}{57}$	64.0 68.0	N.W. N.W.	" flies bad.
		12	6 00 9 22	28 54	54.0	S.W.	
		. 12	9.00 a.m.	28 54	60.0	S.W.	
		. 12	9.00 a.m. 12.00 noon 2.00 n m	28 51	61.0	S.W.	strong breeze.
		· 12	3.00 p.m. 6.00 p.m.	28 44 28 46	56°0 56°0	S.W. N.W.	 threatening.
		13.	6.00 p.m.	28 40	36.0	N.	slight snowfall during
							night.
		. 13	9.00 a.m. 12.00 noon	$\frac{28.69}{28.67}$	42.0	S.W.	Calm.
		· 13., · 13.,	3 00 n m	28.67	$\frac{49.0}{53.0}$	S.W.	Fine.
		13.	3.00 p.m. 6.00 p.m.	28.61	52 0	S.W.	
		. 14	6,00 a,m,	28:49	48.0	S.W.	
		. 14	9.00 a.m. 12.00 noon	28 48	58 0	S.W.	Rain.
		. 14	12.00 noon	28 44	66.0	S. W.	Showers, passing shower dur- ing a.m.
		. 14	3.00 p.m.	28 41	70.0	S.W.	Fine.
		. 14	6.00 n.m.	28 40	66 0	S.W.	Showers and rainbow.
		. 15	6 (0.9. m)	28 38 28 38	62.0	S.W. S.W.	Fine.
		15	9 00 a.m. 12 00 noon	28 38 28 40	$\frac{64}{51.0}$	SW	Heavy showers.
		15.	3 00 p.m.	28:32	58 0	S.W.	Thunder showers.
		15	6.00 p.m.	28 30	68.0	S.W.	Thunder showers. Fine, heavy thunder storm dur-
		· 16	6 00 a.m.	28 54	36.0	N.W.	Fine, heavy thunder storm dur-
		16	12.00 noon	28.74	44.0	NW	ing night. Slight snow flurries in morning.
		16	3.00 p.m.	28 77	52.0	N.W.	Fine.

Place.	Date.	Hour.	Barometer.	Thermometer.	Wind.	Weather Notes.
Artillery lake.	·· 17	6.00 p.m. 6 00 a.m. 9 00 a.m		48°0 52°0	N. W. S.	Very fair. Fine.
	· 17 · 17 · 17	12 00 noon 3.00 p.m. 6.00 p.m.	$\frac{28}{28} \frac{67}{62}$		2.1.2	Fine.
	- 18 - 18 - 18	6 00 a.m. 12 00 noon 3.00 p.m. 3 00 p.m. 6 00 p.m. 6 00 p.m.	28 62 28 61 28 65 28 58	$ 52 0 \\ 74 0 \\ 74 0 $	E. E.	Calm. - hot day. - readings at lake level. readings at camp.
	. 19	12 00 noon	28 59 28 54 28 54 28 44	$\begin{array}{ccc} 70 & 0 \\ 52 & 0 \\ 65 & 0 \end{array}$	E. S.E. S.E.	
	. 20.	6 00 p.m. 6.00 a.m 12 00 noon 6 00 p.m.		46 0 64 0 64 0		Fine.
Casba river	- 21 - 21 - 21 - 21	 12 00 noon 6 00 p.m. 6.00 a.m. 1 00 p.m. 2 00 p.m. 2.40 p.m. 6.00 p.m. 6.00 p.m. 12.00 noon 	28 23 28 12 28 11 28 114	56 0 70 0	S.E. S.	Wet, wind moderating. Fue, head of first rapids. • foot of second rapids. head of second rapids.
Casba lake.	- 21 - 21 - 21 - 21 - 21 - 22 - 22	6.00 p.m.	28 11 28 10 28 14		S.W.	
Cason lake.	22 29 20 20 20 23	12.00 noon 6 00 p.m. 6 00 a.m.	$ 28 \ 12 \\ 28 \ 16 \\ 28 \ 28 \\ 28 \ 58 \\ 28 \ 58 $		S.E. S.W. W. N.E.	Fine, heavy showers dur, night
Clinton-Colden lake	- 23. - 23. - 24. - 24.	12 00 noon 3 00 p.m. 9 00 a.m. 12 00 noon	28 78 28 83 28 87 28 87	48.0 54.0 52.0 64.0	N.E. N.E. N.E.	ų.
	- 24	6 00 p.m. 6 00 a.m. 7 30 a.m.		62.0 50.0	W. N.E.	Fine, heavy showers dur, right.
Height of land Lac Deville						
Smart lake	o 25 	12 00 noon 7 00 p.m. 6.00 a.m. 12 00 noon		53 0 50 0 43 0 54 0	E. N.E. N.E.	Fine.
Sifton lake.	. 26	12 00 noon	28 13	52 0 46 0 54 0	N.E.	Wet, strong breeze all night. Fine.
	25 25 25 25 2 25 25	6 00 a.m 12.00 noon 6 00 p.m. 9 00 a.m		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	N.E. W	Calm. Fine,
	30	12 00 noon 6 00 p.m. 6 00 a.m 12 00 noon	28 90 28 95 28 90	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	W.	
Hanbury river	30	6 00 p.m.	28 83	62.0	8.	
Mean for month	to to t	10.000	28-58 28-75	52 29		Fine.
Hanbury river	·· 1.	12 00 noon 3 00 p.m. 6 00 p.m. 6 00 a m. 9 00 a.m	122 G G G	$\begin{array}{c} 70 & 0 \\ 72 & 0 \\ 72 & 0 \\ 58 & 0 \end{array}$	S.W. S.W.	
Timber rapids, Hanbury R Hanbury river	. 2	9 00 a.m 12 00 noon 3 00 p.m.	28 69	59 0 64 0 60 0	S.W. S.E.	

1-2 EDWARD VII., A. 1902

Place.	Dat	e.	Hour.	Barometer.	Thermometer	Wind.	Weather-Notes.
	1900						
Hanbory river.			6.00 n m	28.71	64.0	S.E.	Calm, mosquitos very numerous
rianouce river.	July	3.	6 00 p.m. 9 00 a.m.	28.62	56:0	W.	Fine.
		3	12 00 noon	28 65	70.6	W.	
		3.	6.00 p.m. 6.00 a.m	28.68	66-0 6010	W. W.	
		4.	9.00 a.m	28:69	62:0	W.	
		4.	12 00 noon	$\frac{28}{28}$ $\frac{67}{69}$	7710 6610	W.	
Macdonaid falls, Hanbury r.		4.	3 00 p.m. 6 00 p.m.	28.66	64 0	W	
				28 64	58'0	W.	
Hd. Dickson canyon, Han. 1.		5.	9.00 a.m. 12.00 noon	$\frac{28.76}{28.83}$	$\frac{58}{64}$ 0	W.	
			6 00 p.m.	29 08	62 0	W.	
		6	6 00 a.m.	99.99	54.0	Ν.	
Hanbury river		6	9.00 a.m. 12.00 noon	29·27 29 31	54.0 56.0	NNNNN	
		- G.,	3 00 p.m.	29:34	60 0	S.	
Helen falls, Hanbury river		6	6.00 p.m.	29 35	60.0	N.	
Hanbury river Camp July 7th, Thelon river.		7	9.00 a.m.	$ 29.52 \\ 29.48 $	60 0 60 0	E. E.	
Camp July (un, Theion river.		÷	12.00 noon 3.00 p.m. 6.00 p.m.	29:47	67 0	S.	
		7.	6.00 p.m.	29.43	67 0	S.	
		8	9.00 a.m. 12.00 noon	29.38 29.36	60 0 68 0	S.W. S.W.	
		8	2.00 n.m		70.0	S.W.	
		8	6.00 p.m.	29:30	70.0	S.W.	
(Ph at a second s		9 9	6.00 a.m	29:30 29:31	56±0 66±0		Calm.
Thelon river		9	9 00 a.m. 12 00 noon	29.31 29.28	73.0	S.E.	
		9	3 00 p.m.	29:30	70.0		Calm.
		9 10	6.00 p.m. 6.00 a.m.	29:34 29:41	56°0 50°0	N.E. N.E.	Fine, fresh breeze.
		10.1	9 00 a.m.	29:42	36 0	N.E.	a strong oreeze.
		10	12 00 noon	29 42	58.0	NE	Fine, breeze moderating.
		10 . 10	3 00 p.m. 6 00 p.m.	29'43 29'45	60 0 60 0	N.E.	" slight breeze.
		11	6 00 p.m. 6 00 a.m.	29 40	52.0	W.	·· signt oreeze.
		11.	9.00 a.m	29.51	58 0	W.	
		11	12 00 noon 3.00 p.m.	29.56 29.57	62°0 60°0	W. W	
		11	6.00 p.m.	09:54	60.0	W.	
			6 00 a.m.	29 62	52 0	W.	*
		12 10	9 00 a.m. 12 00 noon	 29 64 29 61 		N.W.	
			3 00 p.m.	29.57	65 0	N.W.	
		13 .	6 09 a.m.	29 39	61 0	W.	
			9.00 a m. 12.00 noon	29:39 29:36	64 0 66:0	W. S.	
					58 0	N.	Fine, sudden strong breeze a
							2 p.m.
			6.00 p.m. 9.00 a.m.	29:41 29:32	50°0 48_0	N.	Fine, moderate gale. light rain during night
							moderate gale.
			12.00 noon	29:27	50.0	N.N.N.	Fine, moderate gale.
			3 00 p.m. 6 00 p.m.	29·26 29·24	54°0 54 0	2.	gale decreasing.
			9.00 a.m	29 12	52.0	N.W.	. strong breeze.
			12 00 noon	29:16	52.0	N.W.	
			3 00 p.m. 6 00 p.m.	29 20 29 22	$\frac{57}{52}$ 0	$\begin{array}{c} \mathcal{V} \ \mathcal{M} \\ \mathcal{V} \ \mathcal{M} \\ \mathcal{V} \ \mathcal{M} \\ \mathcal{V} \ \mathcal{M} \end{array}$	
		16	6 00 a.m.	29.23	48.0	S. W.	
			$9.00\mathrm{a.m}$	29 12	52 0	S.W.	Wet.
Mostin of Doolound river- Thologriver		16	12.00 noon	29.10	48.0	N. W.	Fine, fresh gale blowing.
		2011	12.00 1000	20 10	10 0		a met treat Bure montang.

APPENDIX No. 4 .- Meteorological Observations-Continued.

iii

Place.	Date.	Hour.	0.6	Thermometer.		Weather Notes,
			Sarome C.	L'IDE	-	Weather- Notes,
			gar	à	Whed.	
	1900					
Thelon river	July 16 5 16	3 00 p.m. 6 00 p.m.	20.23	50.0	1.11.	Fine, heavy gale,
	. 17.	6 00 a.m.	29 25	42 0	W.	Fine, heavy gale, gale decreasing, strong breeze, Showers,
Aberdeen lake	. 17	12 00 noon 9 00 p.m.	29 33	44 0		
	18 .	6 00 a.m	29-38	45 0		Showers, heavy hoar frost this
	18.	9-00 a.m	29 41	46.0		morning. Showers,
	18. 19	6 00 p.m. 6.00 a.m	29 44 29 44	45 0	W.	Fine, gale decreasing.
	. 19	9 00 g. m	20:44	-48.0	N.W.	 moderate gale. Fine, gale decreasing. heavy gale. gale ever. frach brown
	~ 19. 	12 00 noon 3 00 p.m.	29.45	53 0 54 0	N.	 gale ever. fresh breeze.
	. 19	6 00 n m	29 45	50.0	N.W.	 fresh breeze.
	20.	6 00 a.m 9 00 a.m	29 39 29 39	46:0	1.11.	
	. 20 .	12.00 noon	29,36	48.0		
	. 20 .	3 00 p.m. 6.00 p.m.	29.33	48 0 44 0	W.	Calm.
Schultz lake	21.	6 00 a.m 9 00 a.m	29-24 29:24	48 0		
SCHUITZ IRRE	. 21.	12.00 noon.	00 01	44 0 47 0	S.	Fine.
	21 .	3.00 p.m	$\frac{29}{29}, \frac{26}{27}$	45 0 45 0	S.E.	Wet.
	- 22	6 00 p.m. 12 00 noon	29:11	50.0	E.	strong gale.
	. 22	6 00 p.m. 6 00 a.m	$\frac{29}{20} \frac{51}{68}$	52.0 46.0	E. E. E.	
						Fine, heavy rain during night, gale decreasing.
	23 23 23	9 00 a.m 12 00 noon	29:75 29:80	56 0 50:0	E	Fine.
Thelon river	23.	3.06 p.m.	29.78	52.0	E N.E. N.E. N.E.	
Head of rapid, Thelon river.		6 00 p.m.	29 81 29 82	52 0	N.E.	
Foot of rapid.			29.85			
Mouth of Thelon river.	24	$\frac{3.15\mathrm{a.m}}{6.00\mathrm{a.m}}$	30.09 30.11	48.0	Z. W.	Fine.
Baker lake	24	12.00 n000 3.00 p.m 6.00 p.m 6.00 a.m 9.00 a.m	30-13 30:14	55 0	N. W.	
	··· 24	6 00 p.m	30.14 30.12	53 0	2. W.	
	- 25	6 00 a.m	30-12 30:10	45.0	N. W.	
				54 0	W. N. W. N. W. N. W. N. W. N. W. N. N. N.	
River into Chesterfield inlet.	. 25	3 00 p.m 6 00 p.m	30.03	60 0	N.	
	26	9,00 a.m	29 94	62.0		Calm.
Chesterfield inlet Quich river, Chesterfi'd inlet	26.	12 00 noon 3 00 p.m	29 94 29 94		E.	Fine.
Quioch river, Chesterfi'd inlet		6 00 p.m		58 D	E.	
Chesterner I miet	27.	19.00 noon	$\frac{10}{29}$ 93 29 95	54 0 54 0	E. S.E.	
	27	3 00 p.m	20.97	56 0 58 0	S.E.	
	28	6 00 p.m 6 00 a.m	29 96 29 89	50.0	S.E.	
	មាមមកភភភភ	9 00 a.m 12 00 room	29 88 29 86	50.0	S.E.	Fine, fresh conserve.
	28	3 00 p 01	29 82	12.0	S.E.	Fire, stowers come proceeding, Fire,
Promise point, Chesterfi'd inlet	. 28	6 00 mm	20 80	49 D 54 D	S.E E	
	1213	3.00 pm	29.74		E	
		6 00 j m 5 00 g m	29 76	52 0 54 0	E.	
Father Hope point	- 30	9.00 ml	250 801	51.0	11.	Fine, sources: the game of Fine
Chesterfield inlet	30	2 00 n n 3 00 p 10	294, 81 291 81	11.0	2. W. 2. W.	
	30	0 00 p.m	29 82	50.0	N.W.	Fine string brane

				1-12		
			t,	ě.		
Place.	Date.	Hour.	let	101		Weather-Notes.
			8	Ĩ.	pd.	
			Barometer.	Phermometer.	Wind.	
					>	
	1900,		0			
1	и 31	6.00 a.m.	29.91	59.0	N W	Fine
hesterfield inlet	31	9.00 a.m.	29 91 29 95	52.0	N W	r me.
	31.	9.00 a.ni. 12.00 noon	29.96	52.0	N.W.	
Peter's Cairn, Chesterfi'd inlet	. 31	3,00 p.m.	29.96	56.0	N. W. N. W. N. W. N. W. N. W.	
n N	. 31	6.00 p.m.	29 96	57.0	N. W.	
Mean for month			29.44	55:51		
stean for month			40 11	00 03		
Mouth of Chesterfield inlet Chesterfield inlet	Aug. 1	6 00 a.m.	30.02	46.0	N. W.	Fine.
Chesterfield inlet	. 1	9.00 a.m.	30.05	50.0		Calm.
49111	. 1	12.00 noon	30.02	$59^{+}0$ $52^{+}0$	337	Pine
With a	· 1	$\begin{array}{c} 3.00 \ p.m. \\ 6.00 \ p.m. \end{array}$	30.05	64.0	W. W.	a me.
				48.0	S.E.	
Chesterfield inlet	. 2.	9.00 a.m. 12.00 noon	30.12	49.0	E.	
	. 2	12.00 noon	30.09 30.01	50.0	E.	1. ¹⁰
0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	3.00 p.m. 6.00 p.m.	29:90	49.0	Е. S.E.	Heavy breeze and rain. Heavy gale, rain.
	3	6.00 p.m. 6.00 a.m. 9.00 a.m. 12.00 noon 3.00 p.m. 6.00 p.m.	29.50	50.0	S.W.	Wet, gale decreasing.
	. 3	9 00 a.m.	$29 \cdot 49$	50.0	S.W. S.E.	Wet, gale decreasing. Fine, thunder, threatening.
0 0 ·····	. 3	12.90 noon	29.38	51.0	S.E.	Heavy showers.
	. 3	3.00 p.m.	29.32 29.22	50°0 52°0	S.E.	
	· 0		29.47	47.0	N.	Fine.
	4	9 00 a.m.	29.56	56.0	X.	Fine, stormy night.
	. 4	12.00 noon	29.57	56.0	N.	Fine, strong breeze.
Quioch river, mouth Unester-		0.00	29.160	56:0	3.7	
field in!et	. 4.	3.00 p.m. 6.00 p.m.	29.60	52.0	N. N.	Fine.
Head of Chesterfield inlet	. 5	9.00 a.m.	29:84	48.0	Ŵ.	r me.
		12.00 noon	29 88	50.0	W.	
a a n n	. 5	3.00 p.m.	29.91	52.0	W.	
River into Chesterfield inlet.	. 5	6.00 p.m.	29 · 93 29 · 96	51.0 46.0	W.	
River hito Chesterneid infet	··· 6	6.00 a.m. 9.00 a.m.	99-92	48.0	S.	
0 0 0 0			90-90	48.0	S.	
Baker lake	6	3.00 p.m. 6 00 p.m.	29.82	50 0	E.	
0	- 6.	6 00 p.m.	$\frac{29.81}{29.76}$	48.0 46.0	N.E. N.E.	Wet, heavy thunder showers.
	. 6	9,00 p.m.	29.70	40.0	11.	Fine, fresh gale.
	7	6.00 a.m. 9.00 a.m.	29.69	52.0		1 IIIC) II CON BORT
	7.1			58.0	· W.	
		3.00 p.m.	29.68	57.0	W.	gale moderating.
	1 2	6.00 p.m. 9.00 s.m.	29.70 29.91	57.0 50.0	N 10	" gale moderating.
	. 8.	6.00 p.m. 9.00 a.m. 12.00 noon 3.00 p.m.	29.91	50.0	W. N. W. N. W. W.	
		3 00 p.m. 6 00 p.m.	29.97	50.0		
Thelon river	· 8 · 9 · 9	6 00 p.m.	29 · 95 29 · 95	50 0	W.	The
B	. 9.	6 00 a.m. 9.00 a.m.	29:95 29:94	46°0 48°0		rine.
0	. 9.	12.00 noon	29:94	48 0	N. W.	
	. 9	3 00 n.m.	29:87	48.0	N. W.	
	. 9	6.00 p.m.	29.89	46.0	.N. W.	Fine, strong breeze.
	10	6.00 a.m.	29:96 29:95	44.0	N. W.	Fine.
	. 10	9.00 a.m. 12.00 noon	29.95	51:0	N W	
	. 10.	3.00 p.m.	29.89	52.0	N. W.	
		6.00 p.m.	29.84	52.0	N. W.	
		6 00 a.m.	29.73 29.67	50.0	S.W.	
		9 00 a.m. 12.00 noon	29-62	54°0 60°0	S.W. S.W.	Fine, strong breeze. Fine.
Schultz lake		3.00 p.m.	29.60	60.09	S.W.	" strong breeze.
	. 11.	3.00 p.m. 6 00 p.m. 6.00 a.m.	29.55	57.0	W.	Fine.
Schultz lake	. 12	6.00 a.m.	$29^{+}50$	54.0	N.E.	

Place.	Date.	Hour.	Barometer.	Thermometer.	Wind.	Weather-Notes.
Schultz lake	- 12. - 12. - 12 - 13	12 00 noon 3.00 p.m. 6 00 p.m. 6 00 a.m. 9 00 a.m.	29 38 29 35 29 27 29 27		2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	Fine, strong br.eze. Fine, heavy thunder storm and rain during night.
Aberdeen lake.	- 13 - 14 - 14	12 00 noon 3 00 p.m. 6 00 p.m. 6 00 a.m. 9 00 a.m. 12 00 noon 3 00 p.m.	29 27 29 30 29 44 29 50 29 56	60 0 60 0 59 0 44 0 48 0 48 0 48 0	S.W. S.W. S.W. N.W. N.W.	light rain during night, strong breeze, strong breeze,
Mouth of Thelon river.	- 14 - 15 - 15. - 15. - 15. - 15. - 15. - 16. - 16.	6.00 p.m. 6.00 a.m 9.00 a.m 12.00 noon 3.00 p.m. 6.00 p.m. 6.00 a.m 9.00 a.m	66 81 87 99 36 38 98 98 98 98 98 98 98 98 98 98 98 98 98	$\begin{array}{c} 46.0\\ 40.0\\ 49.0\\ 51.0\\ 54.0\\ 57.0\\ 49.0\\ 51.0\end{array}$	NNNN WWW	nearly calm. moderate breeze. nearly calm.
Thelon river.		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	29 83 29 81 29 73 29 61 29 60 29 50 29 50 29 17 20 36 29 43	$56^{\circ}0$ $56^{\circ}0$ $57^{\circ}0$ $51^{\circ}0$ $56^{\circ}0$ $60^{\circ}0$ $60^{\circ}0$ $60^{\circ}0$ $52^{\circ}0$	SSW SSS S	strong breeze.
	18. 18. 18. 19. 19. 19. 19.	9 00 a.m 12.00 noon 3 00 p.m. 6 00 p.m. 6.00 a.m 9 00 a.m. 12 00 noon 3 00 p.m.	29 51 55 7 7 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7	$\begin{array}{c} 54 \\ 54 \\ 54 \\ 58 \\ 60 \\ 48 \\ 0 \\ 57 \\ 53 \\ 0 \\ 53 \\ 0 \end{array}$	N.E N.E	
	20. 20. 20. 20. 20. 20.	6 00 p.m. 6 00 a.m. 9 00 a.m. 12 00 neon 3 00 p.m. 6 00 p.m. 6 00 a.m. 9 00 a.m.	20 51 20 55 20 63 20 63 20 65 20 65 29 55	$53 \ 0$ $58 \ 0$ $52^{\circ} \ 0$ $54^{\circ} \ 0$ $56 \ 0$ $50 \ 0$ $36 \ 0$ $36 \ 0$ $33 \ 0$	S.E. N.W. N.W. N.W. N.W.	Wet. Fine. "" Heavy blizzard, sleet, snow and rain. Snowing hard.
	21 21 22 22 22 22	12 00 noon 3 00 p.m. 6:00 p.m. 6:00 a.m. 9 00 a.m. 12:00 noon 3 00 p.m. 6 00 p.m.		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XXXX	Wet, strong gale. Fine, gale decreasing. water risen about 2 feet.
	20. 23. 24. 24. 24.	$\begin{array}{c} 6 & 00 \ {\rm a.m} \\ 9 & 00 \ {\rm a.m} \\ 12 & 00 & 000 \\ 3 & 00 \ {\rm p.m.} \\ 6 & 00 \ {\rm p.m.} \\ 6 & 00 \ {\rm a.m} \\ 9 & 00 \ {\rm a.m} \\ 12 & 00 \ {\rm ncom} \\ 3 & 00 \ {\rm p.m.} \end{array}$	1112883880 8888866668	$\begin{array}{c} 32 & 0 \\ 40 & 0 \\ 45 & 0 \\ 42 & 0 \\ 35 & 0 \\ 38 & 0 \\ 38 & 0 \\ 36 & 0 \end{array}$	E. E.	very heavy hoar froet Snow flurries, Rain alowers, Rain and anow flurries, Fineground covered with an w. heavy gale.

iii

				Phermometer		
			÷	E.		
Place.	Date.	Hour.		8		Weather-Notes.
			Ê	÷.	-	
			Barometer.	Ier	Wind.	
			ä	Ē	2	
	1900.					
Thelon river	Aug. 94	6.00 p.m.	29.03	34:0	NE	Stormy night
Theron Treet	. 25	6 00 a.m.	29:18	32 0	NW	Stormy night. Fine,ground covered with snow. Fine.
	. 25	9.00 a.m.		38.0	N.W.	Fine.
0 0 0		12.00 noon	29.26	43.0		н
		3 00 p.m.	29.26	-48.0	W.	
0	u 25	6.00 p.m.	29 · 28 29 · 25	45.0	W.	
		6.00 a.m. 9.00 a.m.	29:25 29:24	40.0 46.0	8.W. S.W.	" pools covered with ice.
0	a 26 . a 26 .	9.00 a.m. 12.00 noon	29 24 29 34	40.0	N.W.	strong breeze.
	26.1	3 00 p.p.	29:40	44.0	N.W.	
	. 26.	$\begin{array}{c} 3.00 \ p.m. \\ 6.00 \ p.m. \end{array}$	29.46	41.0	N.W.	
Forks camp, Thelon river.		$6.00 \mathrm{a.m.}$	29.58	30.0	E.	
Hanbury river		9.00 a.m.	29.56	44.0	н. н	
0	11 24	12.00 ncon 3.00 p.m. 6.00 p.m.	21.52	48.0	E.	
	. 27	3.00 p.m.	29:52 29:39	46.0	S.	
0		6.00 p.m.	29:39 29:30	44.0	S. S.	1.2
	. 99	6 00 a.m. 9.00 a.m.	29:26	46.0	ŝ.	
	. 28	12.00 noon	28:95	56.0	S.	
	. 28.	3.00 p.m. 6 00 p.m.	28.86	54'0	S.	
	- 28	6 00 p.m.	28.82	50.0	S.E.	
	· 29			40.0	N.W.	Wet.
		9 00 a.m. 12.00 noon	28.85 28.83	42.0	N.	Fine.
		3.00 p.m.	28.84	44.0	Ň.	
	. 59	6.00 p.m.	28.82	43.0	Ē	
	. 30.	6.00 p.m. 6.00 a.m.	28.76	39.0		
	п. 30	9.00 a.m.	28 72	-43.0	N.E.	 fresh gale.
	ч 30,	12.00 noon	28'64	45 0 44:0	N.E	
	n 20 n 30	3.00 p.m.	$28 \cdot 59$ $28 \cdot 46$	46:0	N.E N.E	
	. 31.1	6 00 a.m. 9.00 a.m. 12.00 noon 3.00 p.m. 6.00 p.m. 6.00 a.m. 9.00 a.m. 12.00 noon	28:36	46.0	SE	
	31.	9.00 a.m.	28 28	54 0	S.E.	
	. 31	12.00 noon	28 26	58.0	S.E.	
100 C	. 31	3.00 p.m. 6.00 p.m.	28.24	56.0	SE.	
	. 31	6.00 p.m.	28.21	54 0	S.E.	1 m
Mean for Month			29:47	48 96		
Arean for Month				40.00		
Hanbury river	Sept. 1	6.00 a.m.	28.27	44 0	W	Fine.
	0 1	9.00 a.m.	28 30	44 0	N.W.	
Sifton lake	0 1.	12 00 noon	28:34	46.0	N.W.	
Sutton lake	" 1 " 1 " 2	3 00 p.m. 6 00 p.m. 6 00 a.m. 9 00 a.m. 12.00 noon 3.00 p.m.	28-38 28-39	46.0	W. W.	
Musk O _λ hill, Sifton lake	. 2	6.00 p.m.	28:39	34.0		Snow flurries
	2.,	9 00 a.m.	28:39 28:40	36 0	N.W.	Fine.
Musk Ox hill, Sifton lake	. 2.	12.00 noon	28 39	46 0	N. W.	
n n	. 2	3.00 p.m. 6.00 p.m.	28 38	43.0	N.W. N.W.	
				40.0 30.0	N.H.	
Smart Jaka	··· 3	6.00 a.m. 9.00 a.m.	28:40 28:40	30.0	N.E.	Snow flurries.
Smart lake		12.00 a.m.	28 49 28 56	33.0	N.F	in the second se
	. 3.	3.00 p.m	28.59	34.0	N. W.	Fine.
Clinton-Colden lake	·· 3	6.00 p.m.		32 0	N.W.	Fine.
	. 4	6 00 a.m.	28 76	32.0	W.	 ice on all the p×1s.
	- 1	9.00 a.m.	28 76	36:0 1.44:0	N.W. W.	
Casba lake Casba river	· 4	12 00 noon	$\frac{28.77}{28.74}$	44.0	S.W.	
Casha river.	. d	6 00 p.m.	28.72	42.0	S.W.	
	. 5.	6.00 a.m.	28 62	38 0	S.E.	
	a 5,.	9 00 a.m.	28 52	42.0	S.E.	11
Artillery lake	. 5	6.00 p.m. 6.00 a.m. 9.00 a.m. 12.00 ncon 3.00 p.m. 6.00 p.m. 6.00 a.m. 9.00 a.m. 12.00 ncon 3.00 ncon	28 42		S. E.	
Artillery lake	. 5	3 00 p.m. 6,00 p.m.	28.39 28.39	50.0	S.E. S.E.	
	и Э., и б.,	6.00 p.m. 6.00 a.m.	28:39 28:41	48.0	N.E.	
	. 0	. o oo a.m.	20 41	10 0		

APPENDIX No. 4. Meteorological Observations-Continued.

Place.	Date.	Honr.	Barometer.	Thermome for.	Wand.	Weather Notes.
	1900,					
			28 45			11
Artillery lake	Sept. 6 6	9 00 a.m. 12 00 noon	28 40 24 47	46 0	S.W.	Fine,
	6	3 00 p.m.	28 48	50.0	S.W.	
	6.	6 00 p.m.	28 12	50.0	S.W.	
	- 7	6 00 a.m. 9 00 a.m.	28 54 28 57	41 0	N.E. N.E.	
		12 00 noon	28 55	41.0	N.E.	Showers.
	· 7.	3 60 p.m.	28:58	39.0	N E.	1. w
	. 7	6 00 p.m. 6 00 a.m.	28 72 28 84	36 0 38 0	N.E. N.	Snow flurries. Fine.
	. 8.	9 00 a m.	2 . 90	42 H	W.	r me.
	. 8,	12 00 noon	28 87	45.0	W.	 black currant bushes.
	. 8.	12 00 noon 3 00 p.m. 6 00 p.m.	28 82 28 78	47 0	S.W. S.W.	
				40 0	SW	a fresh galo
		9.00 a.m.	28:74	44.0	S.W.,	
	. 9	12.00 noon 3.00 p.m.	$\frac{28}{28}$ $\frac{73}{70}$	$\frac{46}{48} \frac{0}{0}$	S.W. S.W.	almost calm.
		6 00 p.m.	28 68	50 0	S.W.	- calm.
	10 .	6.00 s.m.	28 52	-16 0	S.	
Pike's portage.	10 .	9 00 a.m. 12 00 noon	28:50 28:36	50 0 69 0	S.W.	
r ike s portage		3 00 p.m.	28.38	58 0	S.W.	
	. 10	6.00 p.m.	28 38	56.0	S. W.	
· · · · · · · · · · · · · · · · · · ·		6.00 a.m. 9 00 a.m.	$\frac{28}{28} \frac{32}{37}$	$\frac{43.0}{53.0}$	00	- calm.
	. 11 .	12.60 noon	28-32	60 0	8.E. N.W.	
	. 11	3 00 p.m.	28-35	56.0	N.W.	
Great Slave lake .		3 30 p.m. 4 40 p.m.	$\frac{28}{28}, \frac{37}{98}$			
Great Slave lake .	11	4 40 p.m. 6.00 p.m.	28 98	50.0	N.W.	Fine
	- 12	6 00 a.m.	29.39	38 0	N.W. N.W.	
	- 12 .	9 00 a.m. 12.00 noon	29-40 29:41	49-0 52.0	N W.	0.9
		3.00 p.m.	29 41	53 0	W.	
	12	6 00 p.m.	29 42	50.0	W.	
	- 13	6,00 a.m.	29.54 29.54	$\frac{40}{47}$ 0	W. W.	
		9 00 a.m. 12 00 noon	29.56	44 0 52 0	11.	
	13.	3 00 p m	29 57	52.0	W.	
Fort Reliance, Gt. Slave lake		6 00 p.m. 6,00 a.m	29 61 29 80	45°0 34_0	W. E.	
Port Rehance, Gt. Slave lake	. 14	9.00 s.m	29.80	42 0	S.W.	
	- 14	12 00 noon	29.79	50.0	S.W.	
		3 00 p.m.	29-78 29:73	52 0 50 0	S.W.	
		6.00 p.m. 6.00 a.m	29 63	40 0	S.W.	
	15	9 00 a.m.	29.66	48.0	S.W.	
		12 00 noon	29-60 29:57	54 0 58 0	S.W. S.W.	
		3.00 p.m. 6.00 p.m.	29 51	51.0	S.W.	
	- 16.	6 00 a.m	29 40	47.0	S.W.	
Great Slave lake	16.	9 00 a.m	29 40) 29 36	52 0	S.W. S.W.	
	16	12 00 noon 3 00 p.m.	29 36 29 33	56 0 57 0	N. 11.	
	16	6 00 p.m.	29 29	49.0	N.	
	17	6 00 à.m	29 19 29 17	39 0	N.E. S.E.	
		9.00 a.m 12.00 ncom	29 18 29 19	50 0 53 0	N.W	
	17	3 00 p.m.	00.00	57 0	N. W.	
Fond du lac, Gt. Slave lake,	17	6.00 p.m. 6.00 s.m	29 - 29 - 29 - 29 - 39 -	54 0 40 0	N.W N.E.	
rond du lac, Gt. Slave lake.	18	0 00 a.m	29 39 28 36	30 0	N.E.	

25-iii-10

Place.	Date.	Hour.	Barometer.	Thermometer.	Wind.	Weather-Notes.
	1900.					
Great Slave lake	Sept. 18 .	12.00 noon	29 32	60.0	N.E.	Fine.
	18 .	3.00 p.m.	99:39	58 0	N.E.	
· · · · · · · · ·	18 	6.00 p.m. 6.00 a.m.	29 32 29 03	$\frac{54}{52.0}$	N.E. S.E.	
	. 19.	9.00 a.m.	29:01	5810	S.	
		12.00 ncon	$\frac{29}{29} \frac{01}{01}$	60°0 60'0	S.W. S.W.	
10 A A A A A A A A A A A A A A A A A A A	1 n 19. 1 19.	3.00 p.m. 6.00 p.m.	29 01 28 99	56 0	S.W.	
Stoney Island, Gt. Slave Iak	e n. 20.,	6.00 a.m.	28 78	50 0	S.W.	
	. 20.	9.00 a ni 12.00 noon	$\frac{28}{28}$ 74 $\frac{74}{74}$	5810 6010	S.W. S.W.	 strong breeze. heavy gale.
	20 .	3.00 p.m.	28 78	56 0		" neavy gate.
		6.00 p.m.	28.82	50 0	W.	
	. 21.	6 00 a.m. 9.00 a.m.	28 96	42.0 46.0	N.W. N.W.	10 0 10 0
	. 21 .	12.00 noon	29 16	56.0	N.W. N.W	1 H H
· · · · ·	· · · 21 .	3.00 p.m. 6 00 p.m.	29 22 29 26	54:0 54:0	N. W.	10 0 10 0
		6.00 a.m.	29:30	38.0	N.W. S.E.	gale decreasing.
	. 20	9 00 a.m.	29 36 29 36	47:0	S.E.	
	· 22. · 22	12.00 noon 3 00 p.m.	29.30	50 0 47 0	S.E. S.E.	
Great Slave lake	. 22	6.00 p.m.	29:44	44 0	S.E.	
Ft. Resolution, Gt. Slave lak		6.00 a.m. 9.00 a.m.	29 59 29 67	31°0 42°0	S.E. S.E.	6.2
	. 23.	12 00 noon	29 72	50.0	N.W.	
	. 23 .	3.00 p.m.	29:74	44 0	N.W.	
	23	6.00 p.m. 6 00 a m.	29.77 29.82	37 0 30 0	E.	
	24.	9.00 a.m.	29.82	32.0	F E.	
		12.00 noon 3 00 p.m.	29.78 29.74	49:0 50:0	E. E.	
	24.	6 00 p.m.	29:72	47 0	Ê.	1 .
	25.	6 00 a.m.	29.72	28.0	S.E.	" slight fall of snow.
· · · · · · · · · · · · · · · · · · ·	. 25. . 25.	9.00 a.m. 12.00 noon	29.71 29.69	33:0 38:0	S. S.	
		3 00 p m.	29.64	38:0		
	· 25.	6.00 p.m. 6.00 a.m.	29.58 29.09	37 0 38:0	1.1.2.2.2.2	
	. 26.	9 00 a.m.		48 0	S.	
			-28.94	50.0	5.5	
		3.00 p.m. 6 00 p.m.	28.74	5410 5010	S	2
	. 27.	6 00 a.m	28.81	42 0	N.W.	
	27	9 00 a.m. 12.00 noon	$\frac{28}{28} \frac{83}{88}$	44.0 42.0	N.W.	1
	27	3 00 p.m.	28 92	46 0	N. W.	
Slave river.		6 00 p.m.	$\frac{28}{29}$ $\frac{99}{09}$	44.0 44.0	N.W. S.E.	
Slave river.	- 28. - 28.	6 00 a.m. 9 00 a.m.	29 09 29:18	45.0	S.E.	2
		12.00 noon	29.26	50 0	E	
10	- 28.	3.00 p.m. 6 00 p.m.	29:34 29:41	46:0 35:0	E.	Snow during day.
	. 29.	6.00 a.m.	29 59	30.0	N.E.	Pools frozen over during night.
· · · · · · · · · · · · · · · · · · ·	· 29.	9.00 a.m. 12.00 noou	29:62 29:64	40.0	N.E.	Fine.
· · · · · · · · · · · · · · · · · · ·	29	3.00 p.m.	29 63	36:0	N.E. N.E.	
	. 29	6 00 n.m.	29.64	36 0		Snow flurries.
	- 30 - 30	6 00 a.m. 9 00 a.m.	$\frac{29}{29}$ 60 $\frac{29}{66}$	34-0	N.W.	Fine.
	30.	9 00 a.m. 12.00 noon 3.00 p.m.	29:459	40.0	N.W.	Heavy snow fall.
		3.00 p.m. 6.00 p.m.	$\frac{29}{29}$ $\frac{69}{72}$	$\frac{40}{32.0}$	N.W.	Fine.
						r me.
Mean for the month			29:06	45 51		

						· · · · · · · · · · · · · · · · · · ·
Place.	Date.	Hour.	Barometer	Thermony ter.	W'nd.	Weather Notes.
	1900.					
Slave river, .	Oct. 1	6-10 a. or	29.74	30.0	N 11	Snow still falling.
Slave river,	1	9 00 a.m	29 76	36 0	E. N. F.	Fine, Show still failing,
	. 1	12 00 noon	211 7.9	40.0	E E.	
	. 1	3.00 p.m.	29 79	36-0	E	
	0 1	6 00 p.m 6 00 a.m	29 79 29 61	28 0 27 0	E. S.W	Kana at the second second second
		9 00 a.m	29:61	32 0	S.W	Func, at 4 a.m. temp. was 19 . Func.
	. 2	12/00 noon	29.58	36_0	S.W	
		3 00 p.m.	29.56	40.0		-
		6 00 p.m. 6 00 a.m	291-54 291-62	40.0	S.W S.W	
	- 3	9 00 a.m	29.64	40.0	SW	
	3.	12.00 noon	29.66	44 0	S.	
	3	3.00 p.m.	29-66	44.0	S.	
Salt river, Slave river	· 3. · 4.	6 00 p.m. 6 00 a.m	20 66 20 56	37:0	S.E.	
Sant river, Slave river	. 4.	9 00 a.m	29 59	38 0	S.E.	
Slave river.	4	12 00 mont	29 56	44 0	S. E.	
and the second second	4		29 49	41.0	S. E.	
Fort Smith, Slave river	a 4 5	6.00 p.m. 6.00 a.m	$\frac{29}{29}$ 46 29 19	40 0	S.E. S.E.	
		9 00 a.m	29.18	40.0	S.E.	
	0 5.	12 00 noon	29 16	42.0	S.E.	
	- ÷ -	3 00 p.m.	29 14	40.0		
Shitth > landing -		6 00 p.m. 6 00 a.m	29 14	34 0 26 0	S E. S.	
	. 6	9 00 a.m	20 11 20 10	30.0	S	
Slave river.			29.11	40.0	S.	
		6 00 p.m.	29-14	36-0	8.	
	1. 1.	0.00 a.m	29 24 29 22	$\frac{20}{35}$ 0	5.5	
	· · · ·	6 00 p.m. 6 00 a.m 9,00 a.m 12,00 noon 2 00 p.m. 6 00 p.h.	211 : 2	36 1)	S	
	7.	2 00 p.m.	29 20	36.0	8.	
		6 00 p.10.	29 18 29 09		S.	Fine.
		6 00 a.m 9 60 a.m	29 09	30-0 36-0	1	
	8	12 00 noon	290.10	44 0	S.	Fine
	. 8	3 00 p.m.	$\frac{28}{28} \frac{74}{57}$	44 0	S.	
	· 8.	6 00 p.m. 6 00 a.m	28.57	42 0 44 0	S. S.	
	······································	9 00 a.m	18 70	15 0	N'W	
De Roche river, Slave river.		12 00 noon	12222	52 0	N.W.	Fine.
	0 9	3 00 p.m.	28 74	50.0	1.11.	
	- 9 10	6 00 p.m. 6.00 a.m.	28 80 28 94	48 D 40 0	N.W. S.	
Slave river.	10	9 0 a.m	28.94	42 0	5.	
	- 19	12 00 no m	28.88	46 0	S.	
Ft. Chippewyan, L. Athabasca	10	3 00 ptm. 6 00 ptm.	$\frac{28}{28}$ 74 $\frac{28}{74}$	45.0	S.	Ram.
	- 10	6 00 p.m. 6 00 a.m	28 67	38 0	1.5	Addin.
	. 11	9.00 a m	116 118	42 (1	S.	Fine.
	0 11	12 00 noon	28.68	44 0	S.	
	. 11	3 00 . n . 6 00 p.n.	28-64 28-60	44 11 43 4	NNNNN NNNNNN	Fune.
	. 12	6.00 a.m	20 70	32.11	NE	Hund
	12	9 00 a.m	28 78	15.0	NE	
		12/00 ne ou	28 76	25.0	N.E.	
		3 00 p.m. 6 00 p.m.	28 77	30.0		Ground success in the same
	- 13	6 00 a. m	28, 115	21.0	N.	Fue
	13	900 a.u	20.0E	24.0	N.	
	- 43	12 00 noon	29.118	29 0 30 0	5.11.	
	a 13	5 00 p n 6 00 p n	29 09	25 0	N.W. N.W.	
		n 00 a.m	29 .4	28 0	S.E	

1-2 EDWARD VII., A. 1902

	Place.			Date.		Honr.	Barometer.	Thermoneter.	Wind.	Weather-Notes.
				1900.						
Th. 61.1	ppewyan, L. A	(h - h			14	9.00 a.m.	29.14	29.0	0.13	Fine.
Ft. Umj	ppewyan, L. A	thatoas	sca .	oct.	14.	12.00 neon	29 14	35.0	S.E. S.W.	r iue.
					14	3.00 p.m.	29 19	36 0	S.W.	
					14	6.00 p.m.	29.24	30 - 0	S.W.	
	0				15. 15	6 00 a.m	29·27 29 24	30°0 36°0	2.12	
					15.	9.00 a.m. 12.00 noon	29 24 29 16	40.0	3	1.2
					15	3 00 p.n.	29:04	40 0	8	
					15	6.00 p.m.	$28^{\circ}98$	-10.0	S.	
					16 .	6.00 a.m.	28.78	42.0	S.W.	 rain during night.
				0	16 . 16.	9.00 a.m. 12.00 noon	$\frac{28}{28}$ $\frac{78}{80}$	$\frac{46}{52} \frac{0}{0}$	S.W. S.W.	
					16.	3.00 p.m.	28 82	30.0	W.	
					16 .	6.00 p.m.	28 86	45 0	W.	
					17	6.00 a.m.	29.16	32.0	W.	
	P1				17	9 00 a.m.	$\frac{29.16}{29.16}$	37:0	W.	
					17	12.00 noon 3 00 p.m.	29.10	41.0	N.E.	
					17	6.00 p.m.	29.04	42.0	N.E. N.E.	
					18	6.00 a.m.	28.64	42.0	S. E.	
					18 .	9 00 a.m	28.60	43 0	S.E.	
					18 18	12 00 noon 3.00 p.m.	23 54 28:44	48.0 47.0	NE.	
					18	6.00 p.m.		44:0	N.E.	
					19	6 00 a.m.	28 09	42.0	S.W.	heavy rain in early morn
					19.	9.00 a.m.	28.08	46.0	S.W.	
					19 .	12 00 noon	28 08	49 0	W.	
	- 11				19 19	3.00 p.m. 6.00 p.m.	$\frac{28.10}{28.11}$	48:0	W. W.	
					20.	6.00 a.m	28 40	40 0	W	
					20	9.00 a m	28:42	42 0	W.	
					20	12.00 noon	28 42	52 0	W.	1. The second
				14	20 20	3.00 p.m.	28 42 28 40	50 0 44 0	W. W.	Hail. Rain, heavy thunder & lightning
					20	6.00 p.m. 6.00 a.m.	28:47	36 0	W	Fine.
					21.	9 00 a.m.	28 50	36 0	W.	
					21 .	12.00 noon	28 52	-40.0	W.	
					21 .	3.00 p.m.	28 62 28 66	38:0	W.	1 m
					21 22	6.00 p.m. 6.00 a.m.	28.66	34:0 26:0	N. N.	
					92	9.00 a.m.	28 87	26.0	N.W.	Light fall of snow.
					22 .	12.00 ncon	28 94	27 0	N.W.	Fine.
					22 99	3 00 p.m.	29.02	26 0	N W. N.W.	
						6 00 p.m. 6 00 a.m.	$29^{\circ}17$ $29^{\circ}16$	$\frac{24}{20.0}$	N. W.	
					23.	9 00 a.m.	29.17	24 0	N.W.	
					23	12 00 noon	29.12	26 0	N. W.	
					23	3.00 p.m.	29.07	24 0	S.	
					23 24	6 0)p.m.	$\frac{29.07}{28.77}$	22.0 28.0	S.W.	
					24.1	6.00 a.m. 9.00 a.m.	28 77	30.0	S.W.	
					24	12 00 noon	28.72	38 0	S.W.	
					24 .	3.00 p.m.	28.70	40 0	S.W.	
					24 .	6,60 p.m.	28:67	34 0	S.W.	
					25 25	6.00 a.m. 9.00 a.m.	$\frac{28.52}{28.52}$	32 0 36:0	1. 1.	
					- 25	12 00 noon	28.52	42.0	S.	
					-0.5	3.00 p.m	28.50	40_0	S.	
					25 .	6 00 p.m.	28:54	36.0	1 5	
					26 26	6 00 a.m 9 00 a.m	$\frac{28}{28}$ $\frac{74}{76}$	32 0 36:0	5. 5.	
					26	9 00 a.m 12 00 noon	28 10 28 78	40.0	22	
					26	3.00 p.m.	28 84	42 0	W.	
					26.	6.00 p.m.	28.88	36.0	W.	
					27	$6.00{\rm a,m}$	29.08	29.0	S.	

Place.	Date.	Hour.	Barometer.	Thermometer.	Wind.	Weather Notes,
	1900.					
Ft. Chippewyan, L. Athabasca	Oct. 27	9-00 a.m	29 11	32 0	S.	Fine
	27 .	12/00/000m 3/00 p.m.	29 11 29 08	12 0	S. E.	
		6.00 p.m.	29 04	38 0	E.	
	- 28.	6 00 a.m 9 00 a.m	$\frac{28}{28}$ $\frac{82}{72}$	36 0 42 0	S.E. S.E.	
	28	12 00 noon	28.76	-16 O	S.E.	
	- 28 - 28	3 00 p.m 6 00 p.m	28.80 28.86	12 0 38 0	S.E. S.E.	Light rain. Fine.
	29.	15-00 a.m	28.90	32 0	11.2	
	· 29 29	9 00 a.m 12 00 noon	$\frac{28}{28}$ $\frac{92}{22}$	34-0 34:0	W.	
	. 29	3 00 p.m		34 0	W.,	
	. 29	6 00 p.1 (6 90 a.m	$\frac{29}{28}$ $\frac{02}{97}$	32 0 39 0	W. E.	
	30	9 00 a.m	28.98	34 0	E.	
	·· 30 30	12.00 noon 3 00 p.m	28 94 28 90	38-0 38:0	E.	
	30	6 00 p.m	28 90	36 0	E.	
	31.	6 00 a.m 9.00 a.m	28:92 28:95	27 0	S.E. S.	
	- 31.	12.00 noon	28 95		S.	
	·· 31 ·· 31	3 00 p.m 6 00 p.m.	28 98 29:02	34 0 30:0	S. S.	
		o oop.m.	_			
Mean for month			28 95	37.11		
Ft. Chippewyan, L. Athabasca	Nov. 1	6 00 a.m	29:08	30.0	Ν.	Fine, slight snow fall.
10 10 10 10 10 10 10 10	. 1.	9 00 a, m 12.00 noon	29°08 29°12	33 0 36 0	11111	Fine.
	 1.1 	3.00 p.m.	29.07	36 0	N.	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	· 1 · 2	6 00 p.m 6.00 a.m	29.12 29.02	$\frac{33}{28:0}$	N.	
		9,00 a.m	29 62	30.0	W.	
	. 2.	12 00 noon 3 00 p.m	29 05 28 99	32.0	W.	
	2.	6 00 p m	28 97	30.0	W.,	
	· 3 3.	5 00 a.m 9 00 a.m	$\frac{28}{28}$ $\frac{75}{72}$	28 0 30 0	S.W. S.W.	
	. 3	12 00 noon	28 70	:2.0	S.W.	
	- 3	3 00 p.m 5 00 p.m	28 69 28 67	$\frac{34}{34}$ 0	S.W. S.W.	Fine, very strong breeze. Fine,
	· · · ·	5 DO 5.10.	28 99	18:0	N.W.	Fresh gale with snow.
	- 4	5 00 a.m. 12.00 noon	$ 29 01 \\ 29 03 $	$\frac{22}{24}$ 0	W.	Ice forming along shore. Fine.
		3 00 p.m.	29.05	24 0	W.	in the state of th
1 1 1	- 4 5	6 00 p.m. 6 00 u.m.	29·12 29/33	21 0 10 0	W	
		9 00 a.m.	29.15	12 0	N.E. N.E.	
1. 2. 4		12 00 noon 3 00 p.m.	20 37 20 41	20.0	N.E.	
		5,00 p m.	29 42	19.0	N.E.	
	6	6 00 a.m. 9,00 a.m.	29 46 29 49	14 0 16 0	E.	
	6.	12 00 noon.	20.52	1×0	F	
	- 6. 5 5	3 00 p m.	$\frac{29}{29}$ $\frac{49}{47}$	20.0	E.	
		6.00 p to. 6.00 s.m.	20 22 20 17		5.	
		9 00 a.m.	$\frac{29}{29}$ 17 29 12	24 0 30 0	1.4	
	-1-1-1-	12/00 ncom 2/00 p.n	20.07	31 0	S.	
1		5 00 p.m. 6 00 a.m.	29 02 28 82	32 0 30 0	1.1.	
		9 00 a.m.	28 83	32 0	1.	

1-2 EDWARD VII., A. 1902

				Thermometer		
Place.	Date.	Hour.	otes	i ii		Weather-Notes.
I lace,	Date.		Dine	Ĕ	÷.	Weather-tvotes.
			Barometer.	he	Wind.	
				L	~	
	1900.					
Ft.Chippewyan,L.Athabasca	Nov. 8, .	12 00 noon	28 80	34.0	8.	Fine.
0 0	8	3.00 p.m.	28:80 28:82	34.0	N.E.	
	и 8	6 ''0 p.m.	28 82	34.0	N.E.	Fine, 7 p.m. rain falling, rain- bow observed, 10 p.m. snow.
	. 9	6.00 a.m.	29.32	20 0	N.E. N.E.	Fine.
· · · · · ·		9.00 a.m. 12.00 noon	29:35 29:47	$\frac{21.0}{21.0}$	N.E. W.	
	. 9	3.00 p.m.	29 51	20.0	W.	
	" 9 " 10	6.00 p.m. 6.00 a.m.	$\frac{29.57}{29.27}$	20.0 30.0	W. S.	
	·· 10	9.00 a.m.	29.27	31.0	S.	
		12.00 noon	29.27	36.0	NW	
	н 10 н 10	3 00 p.m. 6 00 p.m.	29.27 29.27	$\frac{31.0}{27.0}$	N.E. N.E.	
		6.00 a.m.	29 27	16.0	IN EEEEEEE	
	·· 11 . ·· 11 .	9 00 a.m.	29:29 29:31	18.0 14.0	N.E.	
	. 11 .	12 00 noon 3.00 p.m.	29 41	12.0	N.E.	
	. 11	6.00 p.m.	29 47	10.0	N.E.	
	·· 12	6.00 a.m. 9.00 a.m.	29 47 29:47	2.0 6.0	N.E.	
	12	12.00 noon	29 47	12'0	NE.	
	· 12 .	3 00 p.m. 6 00 p.m.	29.61 29.61	10.0 + 8.0	N. N.	
	13.	6.00 a.m.	29:47	-2.0	SE	
	. 13	9.00 a.m.	29:47	-50	S.	·· ice set fast in channel.
		12.00 noon 3 00 p.m.	29 42 29 39	$10.0 \\ 7.0$	S. N.E.	
	or 13	6 00 p.m.	29 42	7'0	N.E.	
	· 14	6.00 a.m. 9.00 a.m.	29:47 29:47	7:0	N.E. N.	
	o 14.	$12 \ 00 \operatorname{neon}$	29:52	8.0	N.	
	. 14.	3.00 p.m. 6 00 p.m.	$\frac{29.52}{29.54}$	10:0 8:0	N.	
Athabaesa river.	 15 	6 00 a.m.	29.57	3:0	N.W. N.W.	
	. 15 . 15.	9.00 a.m. 12.00 noon	29:57	2.0	N.W.	
	· 15	3.00 p.n.	29 57 29 57	+ 1.0	N.W. N.W.	
	· 15	6.00 p.m.	29:57	2 0		
	- 16. - 16.	6 00 a.m. 9 00 a.m.	29 62 29 72	$-12 \ 0 \\ -10 \ 0$	S.W.	Fine.
	16	12 00 noon	29.70	-10 0	N.W.	
	· 16	3 00 p.m. 6 00 p.m	$\frac{29}{29}$ 70 $\frac{70}{70}$	- 80	N.W.	
	17	6 09 a.m.	29.70	$^{+60}_{-30.0}$	N.W	
	17 17 17	9 00 a.m. 12.00 noon	$ \begin{array}{r} 29.70 \\ 29.70 \\ 29.70 \\ 29.70 \end{array} $	$^{-25.0}_{-18.0}$	S. 5.	Fine.
	. 17 .	3.00 p.n.				
	. 1	6.00 p.m.	29 62	$-24 \ 0 \\ -32 \ 0$	S. W.	Fine.
	. 18	6 00 a.m 9.00 a.m	$\frac{29}{29}.57$ $\frac{57}{57}$	-32.0 -25.0	W	
	. 18.	12.00 noon	28 52	-12 0	-W.	
Fort McKay, Athabasca river	- 18 . - 18	3.00 p.m. 6 00 p.m.	29 52 29 47	$-12 \ 0 \\ -12 \ 0$	W	
0	. 19 .	6 00 a.m.	29:52	-16.0	11.	
	. 19 . 19	9.00 a.m 12.00 noon	29 53 29 55	$-8.0 \\ \pm 2.0$	W. W.	
	o 19	3 00 p.m.	29:47	- 8.0	W.	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	19 20	6 00 p.m. 6 00 a.m.	$\frac{29}{29} \frac{47}{07}$	$-\frac{8}{-18} \cdot 0$	W.	
	. 20	12 00 noon	28 97	= 3.0	S	
Athabasea river	. 20	6 00 p.m. 6.00 a.m.	28:85 28:87	0.0		Fine.
	21.	9.00 a.m	28.91	6.0	N.	rme.
Ft. McMurray, Athabascariv.	21	12.00 noon	28 93	= 2.0		

APPENDIX No. 4.-Meteorological Observations-Continued.

Place.	Date.	Hour.	Barometer	Thermometer.	Wheel.	Weather Nets
	1900.					
Athabasea river Twol, Athabasea river.		3 00 p m. 6 00 p m. 6 00 p.m. 6 00 a.m	1242 5.00	- 6 0 20 0 - 32 0 20 0	N	Fine.
Red Willow lake	. 22	12/00 noon 3/00 p.m.	28 27 28 . 1	-10.0 12.0 16.0	W.	Fine.
100 U	23	6 00 p.m. 6 00 a.m 9 00 a.m	28 32	23 0	SW.	
Trail.	23	12.00 noon 3 00 p.m. 6 00 p.m.		8 0 - 16 0		
	24.	6 00 a.m 9.00 a.m	28 37 28 37	-13:0	S	Fine.
	- 24 - 24 - 25	$\begin{array}{cccc} 12 & 00 & noon \\ 6 & 00 & p. m, \\ 6 & 00 & a. m \end{array}$	28 12 28 12 28 02	0 0 5 2 0 5 0	S.S.	Slight snow, Fine, Snow,
Peurbina river	·· 25 25	9 00 a.m 12 00 noom	28 07 28 12	$10 \ 0$ $13 \ 0$	8. 8.	ionow.
Trail	. 25 .	3 00 p.m. 6 00 p.m. 6 00 a.m.	$\frac{28}{28} \frac{07}{05}$ $\frac{28}{28} \frac{07}{07}$	$12 \ 0$ $12 \ 0$ $12 \ 0$	S.	Snow. Fine.
		12 00 noon			W. W.	0 0
Big Jackfish lake	27 .	6 00 p.m. 6 00 a.m 12 00 noon 6.00 p.m. 6.00 a.m	18811122 5555555555	$ \begin{array}{ccc} 26 & 0 \\ 32 & 0 \\ 34 & 0 \end{array} $	S.W. S.W.	
Trail	28	6.00 a.m 12 00 nobu	27:52 27:37			Fine.
	29 29	6 00 a.m 12 00 noon	27 - 37 - 37 - 27 - 2	26.0 30.0	8.W. 8.W.	
Hart lake.	29. 30.	12 00 no m 6 00 p.m. 6 00 a.m 12 00 no m 6 00 p.m. 6 00 p.m. 12 00 no m 6 00 p.m.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 28 \cdot 0 \\ 24 \cdot 0 \\ 28 \cdot 0 \end{array} $	E. E. W.	Fine.
	30	6.00 p.m.		20 0	W.	
Mean for month			28 97	10 81		
Lac la Biche	Dec. 1 . 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{27}{28}$ $\frac{97}{07}$	38 0	N.W.	Fine, very little siden horn. Fine.
Trail.	·· 1 · 2.	12 00 noon 6 00 p.m. 6 00 a.m 12 00 noon		24 0 26 0 34 0	N.W S.W.	
Lac la Biche Pat Prudens Trad, Whitefish lake Whitefish lake Good Fish lake. Duck lake		6 00 p.m. 6 00 a.m	27 87	32 0	S.W. S.W	Fine.
Duck lake		12 10 noon 6 10 p.m. 6 00 a.m	27 72	35 0 26 0 14 0	N. W.	
Victoria	- 4	12 00 noon 6 00 p.m. 6 10 n.1	$\frac{27}{27}$ $\frac{67}{72}$ $\frac{27}{27}$ $\frac{72}{90}$	24 0 1 20 0 10 0	S, W	Fine.
Egg lake Warsaw	- 5	6 00 p.m. 6 00 a m	1000	32 D 99 H	W 2 11 2	
	6	6 00 a m 12 00 noon	$\frac{27}{27}$ $\frac{67}{87}$	32 0 42 0	S.W. S.W.	
Mean for month			27 83	27-76		

61

1-2 EDWARD VII., A. 1902

Month.	в	AROMETER	t	Tr	IERMOMET	ER.
	Mean.	Highest.	Lowest.	Mean.	Highest.	Lowest.
1900.						
April May. June. July. August. September Overmber December.	29 15 18 44 47 06 33 97 83 29 28 28 29 29 28 28 29 29	$\begin{array}{c} 30 \ 19 \\ 30 \ 12 \\ 28 \ 90 \\ 30 \ 14 \\ 30 \ 19 \\ 29 \ 82 \\ 29 \ 79 \\ 29 \ 72 \\ 28 \ 14 \end{array}$	28 68 28 21 28 10 28 62 28 21 28 27 28 06 27 17 27 57	$\begin{array}{r} 34.77\\ 44.46\\ 52.29\\ 55.51\\ 48.96\\ 45.51\\ 37.11\\ 10.81\\ 27.76\end{array}$	59.0 75.0 74.0 77.0 64.0 60.0 52.0 36.0 42.0	+ 6.0 16.0 29.0 40.0 30.0 28.0 20.0 -32.0 +10.0

APPENDIX No. 4 .- Barometer Readings taken at Fort Resolution by F. C. Gaudett.

Date.	6 a.m.	Noon.	6 p.m.	Weather.
1900, April 14 5 15 6 15 7 16 7 17 8 17 9 16 17 17 19 20 21 21 21 21 21 21 21 21 21 21	1722の東京22242200万 2020年222242200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年222322200万 2020年223222200万 2020年223222200万 2020年22322200万 2020年22322200万 202050 20050 20050 20050 20050 202050 20050	% 38% # 12% # 11% 4 9 14% & 4 5 5 5 5 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5,5,2,5,2,1,1,3,5,5,5,8,7 5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	Chandy. Clear Chandy. Showing Chanty. Charty Charty Theory Charty
26 27 28 29 30 	29 46 20 72 20 72 20 51 29 47	29 49 29 55 29 73 29 64 29 48	29.48 29.60 29.52 29.62 29.65 29.55 29.55	Clear and warm. Clear and warm. Snowing.
Mrani for nonthi Mrani for nonthi Mrani for nonthi - 3 - 4 - 5 - 5 - 5 - 5 - 6 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	똜햜킀놦냘즏뿉읺냙챓쁚쩛옣롲냙왉꺌훆햜옗꽖≏쒏흕뉩녛흕늤굕누귱 뽥푡윩큠큠윩닅윩횱횱횱횱횱횱횱횱횱횱횱횱횱횱흃횱닅슻		្នុំ % 2.2.9 មនុស្ស 2.2 ស្ថា 4.2 ស្រុង 2.2 ស្ថា 4.2 ស្ថា 1. គេពិភាគ 4.4 ស្ថិត 4.4 ស្ថិ 4.4 ស្ថិត 4.4 % boo 4.4	Chear, Ch
Mean for month .			29-34	
Imp 1 . 2 . . 3 . . 4 . . 5 . . 6 . . 7 . . 8 . . 9 . . 11 . . 91 . . 91 . . 91 . .	쌉옃딶그슻슻큟롲쁥훩롢놙흕숺 윩횱훬횱쒉쓹륁숡휭휭휭뤙뤙	574522223,453342841 5555555555555555555555	5125558255555225 3153555555555555555	Desay rann. Clear Heast rann Chaoly Clear Clear Clear Clear S.E. work.

iii

iti

APPENDIX No. 4.-Barometer Readings-Continued.

Date 6 a.m. Nom. 6 p.m. Weather. 100 - - - - - 110 29.95 29.12 29.04 Num. - 110 29.95 29.13 29.35 Charay, - 111 29.04 29.04 29.04 29.04 29.04 29.04 111 29.04 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
Jane B. 1600 98 88 99 12 99 09 N wind. ************************************	Date.	6 a.m.	Noon.	6 p.m.	Weather.
June 5	1000				
a 1a 29	T	00.00	00-10		
a 1a 29	v 16.	29.57	29 51		
a 9.1		29.51	29.43	29.35	Clear.
a 9.1	" <u>18</u>	29:36	29 30	29.23	Cloudy.
a 9.1	20	28.95	28 93	28.88	
a 9.1	. 21	28 80			
a 9.1	" <u>22</u>	29.02			
a 9.1	20	29.63	29.63		Clear.
a b b b b b Mean for month.	. 25	29 49	29.55		
a b b b b b Mean for month.	97	29.51	29.56	29:54	N. wind.
a b b b b b Mean for month.	28	29.72	29.66	29 59	Clear.
a b b b b b Mean for month.		29:57	29 51	29 47	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$. 30	29.01	29.02	29 48	
	Mean for month			29 31	
n 2 20 <th>Taylor 1</th> <th>90.19</th> <th></th> <th>90.11</th> <th>Class</th>	Taylor 1	90.19		90.11	Class
* *	" 2	29.45	29.42	29:41	
* *	0 3	29.43	29.42	29 32	
* *	* 4 · · · · · · · · · · · · · · · ·	29 26 20 16		29.12	
* *	n 6	29.32	29-41		Clear.
- 14	0 7	29 52	29 51	29 45	
- 14	9	29.37	29.29		
- 14	10	29.42	29.47		Clear.
- 14	······································	29.60	29 58	29:54	
32 32 32 32 32 32 33<	13	29:17		29 22	Cloudy.
32 32 32 32 32 32 33<	. 14	29 37	29:37	29:33	
32 32 32 32 32 32 33<	. 15	29.24	29.20	29:14	
32 32 32 32 32 32 33<		29.02	29.38	29:43	
32 32 32 32 32 32 33<	. 18	29:49	29.51	29.43	1
32 32 32 32 32 32 33<	19	29.28			Raining.
32 32 32 32 32 32 33<	. 21	29.21	29-23	29.18	
32 32 32 32 32 32 33<	- 22	29:32	29:43	29:51	
32 32 32 32 32 32 33<	94	29.58	29:46	29.65	
32 32 32 32 32 32 33<	. 25	28.51	29 10	29.12	
Mean for month.	a 26	29.23	29:27	29.72	
Mean for month.	- 28	29:36	29.38	29.37	
Mean for month.	. 29				
Mean for month.	30	29:40	29:42 29:39	29:37 99:36	Clear.
Aug. 1 29'36 29'25 29 16 " 2 29'07 29'00 28'97 Raining.					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mean for month			29.34	
9 29 7 29 60 26 77 Raining. 3	Aug. 1	29.36	29.25	29 16	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	" 2 · · · · · · · · · · · · · · · · ·		29:00	28 97	Raining.
n 29 35 29 36 29 31 6	u 4	29.41	29:43		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$. 5	29 35	29.36	29 31	
8 29 52 29 42 Chady, 9	a 0	29.33	29 34 29:32	29.33	Clear
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$. 8		29.32	29 48	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9	29 61	29.61	29.61	
12. 29:12 29:13 20:16 - 13. -	. 11	29 27	29.22	29.14	lear
13. 29.32 29.54 29.33 " 14. 29.32 29.33 29.33 "Outly." 15. 29.44 29.44 24.43 "Outly." 16. 29.40 29.33 29.23 "Iear."	12	29.12	29.13	29.16	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14	29.32	29.34	29 33	Clondr
16	15	29.34	29:40	29:41	
	16	29 40	29 33	29.20	Clear.

APPENDIX No. 4.-Barometer Readings-Continued.

Date.	6 a.m.	Noon.	6 p.m.	Weather.
1900				
Aug. 17	29 02	29:04	29:16	Cloudy,
18	29 31	29:30	29.31	
or 19	29.37	29 42	29 42	1. T.
. 20	29:34	20 32 20 46	29 51 29 17	Raining.
21	20 18	20.02	28 88	Cloudy,
222	25 80	28 92	28,95	Stormy.
24	28 92	29 04	29 26	Raining.
	29 15	29 47	29 37	('lear.
26	29 34	29.37		
27	29 50	29.47	29 43	
. 28	29 32	29 32	29 31	Cloudy,
29	29 29	29 25	29 13	
	29:00	28 97 28 99	28:94 29:07	01
. 31	28.97	28 00	29 01	Clear.
Mean for month			29-25	
	99-93			C1
Sept. 1	28 99	29 32 28 94	29 28 28:93	Clear. Raining.
" <u>2</u>	20 23	20.34	29 48	ranning.
4	29.61	29 62	29 47	Clear.
5	29.12	29.05	94 19	
6	29:14	29.17	29 26	Raining.
	29 43	29.46	29.60	
. 8	29.62	29.68	29 56	
	20:48	29 42	29.36	(7)
	29 23 29:04	29.14 29.02	29·14 29·07	Clear. , Raining.
	29.51	20 02 20 42	20.45	Clear.
- 13	29 71	29.74	20.74	Clear.
14	29.83	29 89	29 81	
15.	29.76	29 71	29.58	
. 16	29 47	29 38	29 26	
· 17	29 22	29 31	29.37	
. 18	29.38	29.33	29 22	Clear.
• 19	29.16	29 06 28 83	29 02 28 89	S.W. wind.
- <u>20</u>	28.82 29.12	28 83	28 89 20 28	N.W. wind.
10 <u>21</u>	29 12 29 32	29 22 29 37	20.28	a. w. wind.
	20 32	-i 31	39	
Mean for month			29.34	

111

.

LIST OF PLATES TO ACCOMPANY REPORTS OF GEORGE WHITE-FRASER, D.T.S. AND ARTHUR SAINT CYR. D.L.S.

No	rage.
1. Storm on Lake Bennett, near Watson River	159
2Watson River	161
3Gorge at Head of West Arm	163
4 View from Summit between West Arm and Wheaton River, looking south	165
5On Pass from West Arm to Wheaton River	167
6 View of Wheaton River Valley, from Summit	169
7New River, looking W. and S. from ()ivide into Wheaton River a state of the sta	
8New River, from Lake Side, looking North	173
9Lake on Summit, overlooking Takhini River	175
10Takhini River from near Post L., looking South	
11.—Packing up Dalton Trail; River Bottom	174
12.—Packing	
13Camp on Alsek River, Pest M	183
14-N. W. M. P. Post at Dalton House	185
15 Crossing Alsek River at Daiton House	187
16Mountains West of Kaskawulsh (1900)	189
17Maine Hotel, Lake Wares	191
18.—Happy Valley	193
19Dry Bed of Oid River in the Happy Valley .	195
20One Mile West of Morin Mt., looking West	197
21 Foot of White Range, facing West	199
22Foct of Red Ridge, facing East, Post 51	201
23. Boundary Line, 120 feet West of Post 56, looking West	2 3
24 -Boundary Line, 840 feet West of Post 56, looking West	2011



25—iii—13



Plate No. 2.

1.1.1

Plate No. 3.

Report of George White-Fraser.



[GORGE AT HEAD OF WEST ABN.





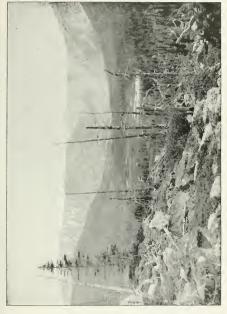
Plate No. 4.



.



Plate No 6.







NEW-REDGE DONES, W. NED S. FROM DISTR. NUMERON REER.



Plan No. 2

Remy of Gamma While Frank



LARE ON SUMMER OF MICHAELSE TAKEN RIVER.

25 iii 14

Report of George White-Frasef.

Plate No. 10.



PACKING UP DALION TRAIL, RIVER, BOITO

Plate No. 11.





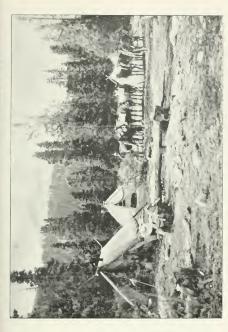




Plate No. 14.

N. W. M. P. POST AT DALTON HOUSE.







THE MAINE HOTEL, LAKE WARES.





Plate No 19.







Photo by A Saint Cyr.

ONE MILE WENT OF MORIN MT., LOOKING WEST.

.

-

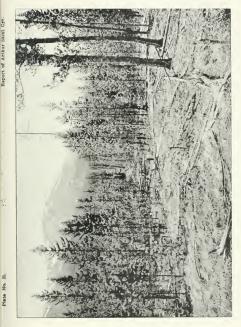




Photo by A. Saint Cyr.

Foor of RED RIDGE, FACING EAST, POST 51.

Report of Arthur Saint Cyr.

Flate No. 22.

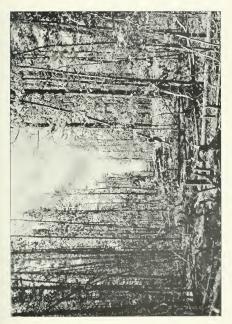
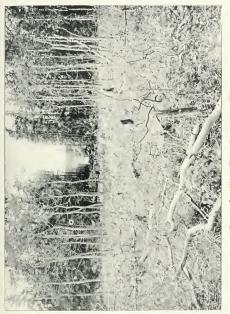


Photo by A. Saint Cyr.

BOUNDARY LINE, 120 FEET WEST OF POST 56, LOOKING WEST.

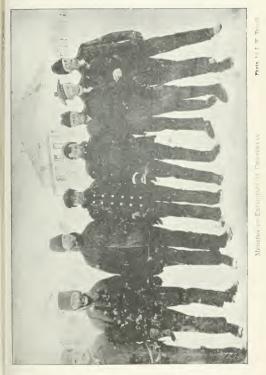
Plate No. 23.



PLACE NO.

N	0.	PAGE
1	Members of Expedition at Chippewyan	209
2	Old Fort Rellance	. 211
3	Second Rapid, Lockhart River	213
5	An Early Spring Bath, Kipling Lak	217
6	Lunch at Crossing of Saskatchewan River	
7	Lac-la-Biche, Hudson's Bay Company's Post Halt for Lum h at a Hunter's Camp	22)
8.	Halt for Lun h at a Hunter's Camp	223
10.	Fort Chippewyan	
11.	Siave River, North from Fort Smlth	229
12.	Fort Resolution, Great Slave Lake	
13.	Hudson's Bay Company's Dwelling, Fort Resolution	
14.	Interior Roman Catholic Church, Fort Resolution	a liĝ
15.	Sleds constructed at Fort Resolution for expedition	137
16.	Ice pressure on Great Slave Lake	239
17.	Halt for junch at Big Point, Great Slave Lake	211
18.	Camp 11 Mile	- 248
19.	Sleds at Swallow Islands, Great Slave Lake	215
20.	Pyke's Porta" Landing, Great Slave Lake	217
21.	Glacier Creck, Charlton Harbour	249
22.	Deer Trails at Fort Reliance	
23.	O'I Fort & liance	
24.	Parry Falls, form West Bank	
25.	White Spruce Timber, Burr Lake, Plke's Portage	
26.	Camp on West Shore Artillery Lake	
	Camp in Last Woods, on East Shore Artillery Lake	
	South End C-ystal Island, Artillery Lake	263
29.	A Fifteen-Minute Catch, Artillery Lake	265
30.	Cache of Provisions, Artillery Lake	
31.	Difficul Cance Navigation	269
32.	Camp at Height of Land	
33.	Sifton Lake and Cairn on Musk Ox Hill	
34.	Baby Musk Ox, Sifton Lake	275
35.	Rapids at Station 221, Habbury River	
36.	Diokson Carvon, Hanbury River	
37.	Di kson Canyon, Hanbury River	281
38.	Hanbury River, below Dickson Canyon	22.
39.	Helen Falls, Sixty Feet, Hanbury River	15
40.	Junction of Thelon and Hanbury Rivers	917
41.	Sandstone Cliffs, at Forks of Hanbury and Thelon	289
42.	Eskines on Thilin River	
43.	Canoe Sailing in Upp r Thelon River	223
	Eskimos on Thelon River	
	Eskimos in Kyacks on Thelon River	
46.	Peter French, Iroquois Steersman	1.9
	Portaging First Rapids on Upr r Thelon	
	Lunch on Sandy Shore of Upper Theion River	1/12
49.	Farthest Camp on Upper Thein	105
50.	View of Upper Theion from C irn Hill	207
51.	Cairn Hill at Farthest Point on Upper Thelon River	203.4
	J. W Tyrrell, as on 160 Mile Tramp	311
	J. W. Tyrrell, as Camped on 100 Mile Tramp	
54.	South Extremity Arillery Lake	
	Surf at Stony Island, Great Slave Lake	
	Wrecked on Stony Island, Great Slave Lake	619
57.	Hauled up at Fort Resolution for Repairs	
	Wooding-up at Fort Brulé, Slave River	3
0:1.	Cutting Wood for Argo on Slave River	
21	Cutting Wood for Argo on Slave River Expedition Crossing Smith Portage Dog Team and Corry-all Arriving at Lac-la-Biche	
01.		329
	27 iii 16 207	





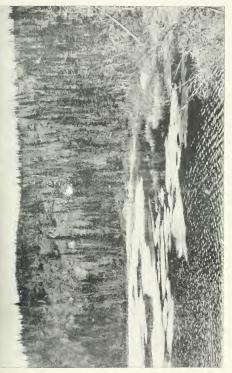




loto, by J. W. Tyrrell

SECONT KAPPO, LOCKBART KINER, MAV_FURB.





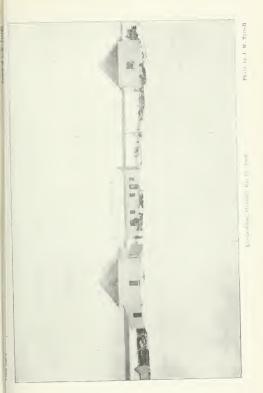
Photo, by J. W. Tyrrel

AN PARDA NULLAR BATH, KIPUNG LAND



oto, by J. W. Tyr., i.

LUND IN CROSSING OF NASADULENAN RIVE







Photo, by J. W. Tyrrell





25-iii-17]

225

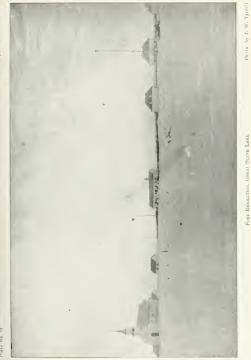


Report of J. W. Tyrrell



Photo. by J. W. Tyrrdll





tep ri f J W Tyrrell

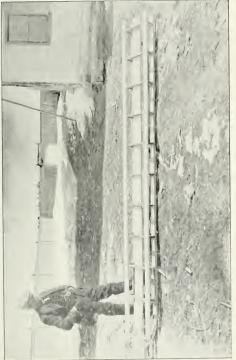


Plate No. 13



INTERIOR ROMAN CATHOLIC CHURCH, FORT RESOLUTION. Photo. by J. W. Tyrrell 235

Report of J. W. Tyrrell



Pinto No. 15

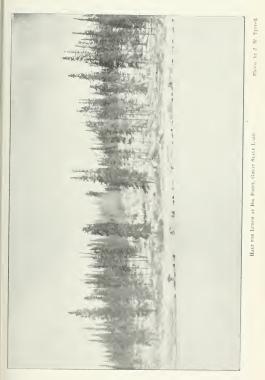
In My TWIN TATAM

SLEDS CONSTRUCTED AT FORT RESOLUTION, FOR EXPEDITION.





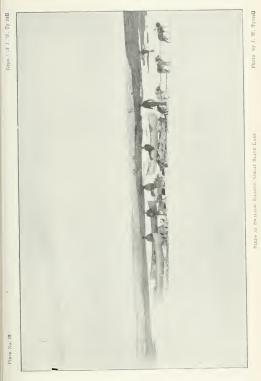




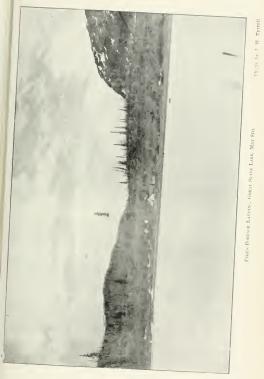


CAMP 11 MILES.

















oto by J. W. Tyrrell

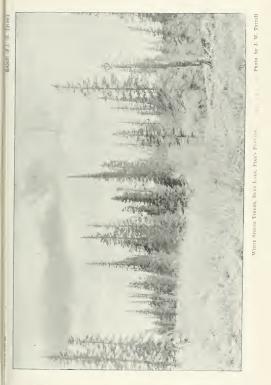
DEER TRAILS AT FORT RELIANCE, MAY SID.



Plate No. 23











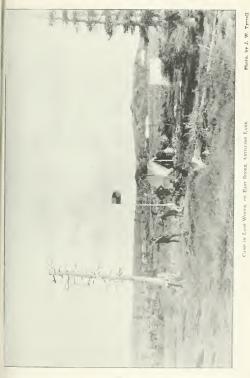






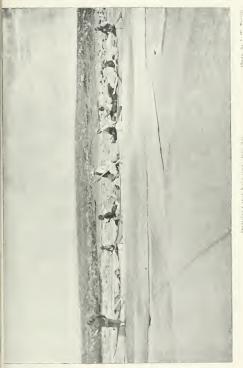




Photo. by J. W. Tyrrell

A. FREDE MINUTE CARDI, ARREDOM DAKK, 1996.



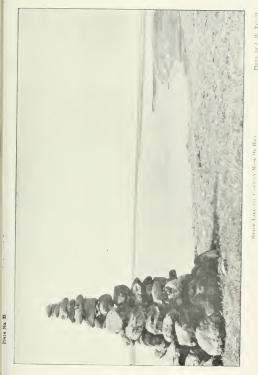


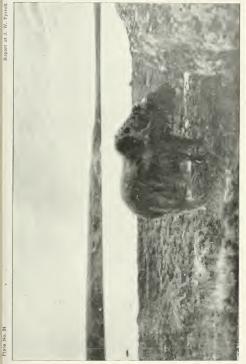




25 - iii = 20







BAD MUSE OV. SULOS LAKE, 1.30 A.M.













DIEKSON CANCER, HANNER, RIVER, PROPOSAL J. W. $T_{\rm T}$ reli=4





Photo. by J. W. Tyrrell

HANBURI RIVER, BELOW DICKSON CANYO









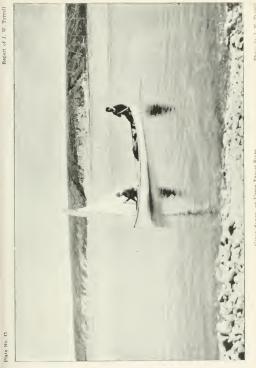


25-iii-211

















PETER FRANCE, IROQUES STEP SOLS





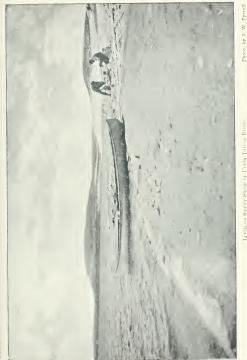


Plate No. 48





Photo. by J. W. Tyrrell

25-iii-221



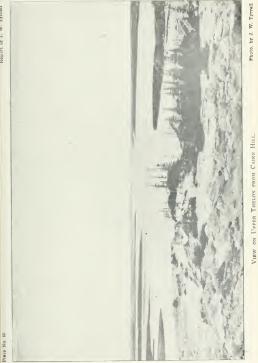






Plate No. 51

Photo, by J. W. Tyrrell



W Typerto, some the Ming Theorem Photo, by J. W. Typrell |



Photo. by J. W. Tyrrell

V. TYRRELL, AS CAMPED ON 100 MILE TRANK





SOUTH EXTREMITY ARTILLERY LAKE, SEPT. 1078.

Fiate No. 64





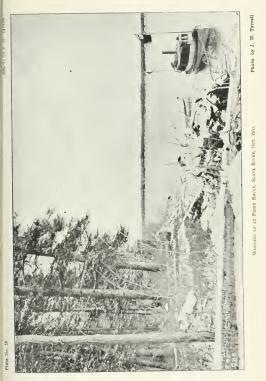


25 - 31 -23

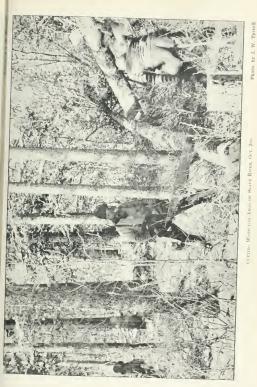
















25-jii-24







ROCKY MOUNTAINS PARK

PART IV.

1-2 EDWARD VII.

SESSIONAL PAPER No. 25



.

ROCKY MOUNTAINS PARK OF CANADA

REPORT OF THE SUPERINTENDENT.

SUPERINTENDENT'S OFFICE, BANFF, July 31, 1901.

To the Honourable CLIFFORD SIFTON, Minister of the Interior, Ottawa.

Sim,--I have the honour to report on the works of construction and other matters of interest connected with the Rocky Mountains park from July 1, 1900, to June 30, 1901.

The work during the past year has been mainly of a routine nature under established conditions, which differ little from previous years, and consist chicily in the construction and maintenance of roads and bridges.

The most important work done during the year was the construction of a new read, about one and a half miles in length, between Banff and Authracite. The old tote road that had formerly been in use was one of the most dangerous drives in the park, and to avoid this the new road was projected. It is one of the best pieces of read building in the park, and makes the travel comparatively easy, beides bringing into view many picturesque objects that could not be seen from the old road.

The design of this road requires it to connect with the high road on the table land lying between the Bow and Casaade rivers, and will continue along this table land, which stands at an elevation of from 400 to 500 feet above the Bow, and will make the drive probably the most attractive in the park. It will give access to many interesting points, among others, 'The Hoodoos' or natural monuments, which curious formations at present cannot be approached and can only be examined from the further side of the Bow river.

This road will ultimately connect with the Loop road which at present skirts Rundle mountain, and the whole, when completed, will afford a succession of panoramic views over a distance of some fifteen miles, the beauties of which it would be impossible to describe. To make the circuit complete, a bridge will be required on the Lower Bow, at a site, however, which will involve a very moderate cost, the river being narrow and shallow.

The road leading out of Anthracite towards Canmore, known as the old tote road, was improved by decreasing grades, straightening curves and erecting guard rails along precipitous hillsides. About eight miles of the road is within the park limits, and it is intended next year to further improve this portion of the road.

High water carried away the centre pier of the small bridge over Stony ereck during the month of June. This was promptly repaired without any interruption to traffic.

Quantities of small brushwood have sprung up alongside of the roads, encreaching gradually on the travelled part and interfering with the traffic, besides being a disfgurement to the appearance of the highway. The removal of this constitutes part of the work of repairs. Most of the roads in the park have been in use for about twelve years, and each year calls for additional repairs. The culterers and smaller bridges built of such timber as this section of the mountains affords cannot be

25-iv-11

1-2 EDWARD VII., A. 1902

expected to last more than ten or twelve years, consequently the annual repairs are becoming more necessary, with frequent and careful inspections to guard against accidents.

THE FLOODS.

The rivers in the park this season did not attain to more than normal height, and consequently no damage was done of any account; any damage to the roads from this cause was of minor character and requires no special mention.

FIRES.

No extensive fires occurred within the park. The spring was late, and the frequent showers of snow and rain prevented the possibility of any large fires. Two or three small local fires were started, but were discovered in time to be extinguished before they had a chance to spread.

HAY CROP.

Notwithstanding the superabundance of irrigation the hay meadows in the park received this year, the crop was nunually good. The only drawback was the limited time which the high water allowed for harvesting, and which prevented the whole crop from being saved. This hay crop appears to be thoroughly reliable, no matter how the season affects the crop in other places. The natural irrigation on the Bow river flats can always be depended on, at least that is the experience for the last ten years. In spite of the contention that the annual cutting of the hay would exhaust the crop, the contrary appears to be the effect. After reserving what was required for the buffalo and other animals in the park, the balance was put up to tender, and given to the bighest bidder.

BUFFALO AND OTHER ANIMALS.

The buffale continue to thrive and do well, and the increase has been most satisfactory. The herd now numbers thirty head, being an increase during three years of fifteen, and a loss of one, which was killed during the winter while fighting with several of the younger bulls.

The elk are also doing well, although there is no increase as yet.

The antelope, which were procured a year ago, did not do well, and although every care was given them they all died during the winter. In my opinion they were captured too young ; they never seemed to recover from the shock of shipping them in. It is my intention to try and secure, some old ones during the coming winter.

Thirteen head of Ångora goats were added to the collection during last winter. They are very beautiful little animals, and four little kids, the increase this year, are very much admired by the visitors. They will, no doubt, do well here and increase ropidly.

Four young moose were also procured during the year, and in time will be a still forther source of interest to visitors. It is hoped during the present year to add considerably to our present collection, and eventually to have a zoological museum in kceping with the National Park of Canada. The situation is beyond doubt an ideal one, and can be made large enough to maintain any number during the summer, while hay can be cut near by for winter feeding at small cost. The total number of animals in the enclosure new, is as follows := buffahlo, 20 ; elk, 5 ; moose, 4 ; Anora most new for the park. The caretaker, who keeps a register, reports that 2,260 persons were through the gates during the year, and in one day recently 88 people were in the inclosure. I an fully convinced that the cost of looking after and maintaining these animals, as

well as any additional money that may be spent in procuring other animals, will prove a valuable and permanent investment to the Dominion annually.

THE SPRINGS.

The reputation of the sulphur springs continues to increase from year to year, as their beneficial and curative properties become more widely known and recognized. It will be necessary to make an addition to the present buildings at the Cave and Basin baths before another season, as during the months of July and August, this year, the accommodation was not nearly sufficient for the number of bathers.

The question of improving the middle springs is also a matter for consideration in the near future.

MUSEUM.

The museum continues to be a source of attraction to visitors, 2,300 persons having resorted there during the season, a considerable increase over former years.

The exhibits lack a good deal of being as complete as they should be, in the matter of geological, botanical, and other specimens of the natural productions of the mountains, the lack of which is very much felt by scientific men and other persons visiting the park, whose time is limited, but who are desirous of obtaining all the information possible on these subjects during their short stay.

The museum should have a reference library attached, with maps and plans for easy reference.

Specimens of the mineral productions of the mountains, classified, labelled and catalogued, would enable persons who take an interest in these things to make the park their headquarters when exploring the mountains in every direction.

The ancient glacial action, as indicated in the several valleys of the park, was a matter of great interest to several genulemen who made a short visit here last nummer, and who expressed their intention of returning this year to resume their observations on these interesting problems. They felt the want, however, of books and maps that are already published of the geology of the mountains, but to which they had not means of access.

VISITORS.

It is highly satisfactory to observe the increase in the number of visitors from year to year.

It is noticeable that many of these repeat their visit annually and bring many others with them to enjoy what they describe as the finest scenery and the most healthful atmosphere they have ever experimend.

The aggregate number of visitors to the park from July 1, 1900, to June 30, 1901, was 8,156.

To determine whether or not the park is becoming more travelled and fulfilling gradually the mission for which it was created, namely as a health and pleasure resort for the benefit and enjoyment of the people, the following comparison of the totals is made from the records for the last five years; 1887, 5,087; 1898, 5,537; 1899, 7,387; 1900, for ten months, 6,533; 1901, 8,156.

The gradually extending knowledge of the park is thus illustrated from year to year by the number of persons from all parts of the world who visit it, and there is no reason to doubt its increasing popularity as a resort for health and pleasure. To hold out and create greater inducements towards the development of this annual influx of visitors should be a primary object, and with this view all the attractions that the park is carable of should be brought out and developed.

In the National Park, in its northern situation, its bracing air, its fine water, its varied scenery, there is every gradation of rustic beauty, beautiful rivers and lakes.

1-2 EDWARD VII., A. 1902

towering mountains and broad valleys, surrounded by the virgin forests, beautiful beyond description. There is not in all the mountains a single dangerous animal, reptile or poisonous insect; one may sleep in perfect security and safety under his blankets anywhere.

It is variously estimated by those best qualified to judge that at a very conservative estimate not less than half a million dollars was expended in the park by visitors during the past seaso.

FUTURE REQUIREMENTS.

At the heads of the several smaller streams falling into the Bow river, and on the Bow itself, many small lakes are found well stocked with fish, and the surrounding country abounds with game of various sorts.

In my last annual report I referred to this matter, and suggested the extension of the bridle reads through the several passes leading up from the Bow valley. I am aware this could not be done under the present Park Act, and that the annual appropriation for works in the park must be expended within the limits laid down therein.

These bridle roads, however, are of such importance to the park, and their necessity is so generally remarked upon by tourists, sportsmen and others coming here, that it is suggested that the bounds of the park should be extended to take in the watershed of the Bow river.

This extension of the limits of the park does not mecessarily involve any additional expense or outlay further than is required to make these bridle roads passable for pack horses. The extension of the limits would be simply to create a reservation or preserve for game, to be controlled by the park management.

The benefit of and the necessity for extensive park reservations in the country are becoming generally admitted. The provinces of Ontario and Quebec have now each very extensive tracts reserved for the protection and propagation of game, fish, &c_, and these reservations far exceed in area the National Park of Canada.

The customary meteorological tables are appended.

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

HOWARD DOUGLAS,

Superintendent.

lv

CANADIAN PACIFIC HOTEL, BANFF.

NUMBER of Visitors from July 1, 1900, to June 30, 1901.

Where from.	No.	Where from.	No.
United States		Germany . Italy . Switzerland . Phillipanes . Bermuda . Swith Africa. Helord Man. Helord Man. Helord Man. Helord Man. Helord Man. Helord Man. Helord Man. Helord Man. Helord Man.	6. 55 2 2 2 1 1 1 3,244

SANITARIUM HOTEL.

NUMBER of Visitors from July 1, 1900, to June 30, 1901.

Where from	No.	Where from.	No.
Canada Uniced States. England China Sociand Sociand France New Zealand Japan Germany	1,790 201 45 11 9 7 7 5 4 3	South Africa Sweden Cape Celony Chanael Islands Xuntha Xuntha Celon Cohan Ohna Total	2,10

GRAND VIEW HOTEL.

NUMBER of Visitors from July 1, 1900, to June 30, 1901.

Where from.	No.	Where from.	No.
Canada United States China Hawaiaa Islands Seotland	$306 \\ 43 \\ 3 \\ 2 \\ 1$	England	

BEATTIE'S HOTEL.

NUMBER of Visitors from July 1, 1900, to June 30, 1901.

Where from.	No.	Where from.	No.
Canada United States Hawaiian Islands Ireland	$\substack{432\\14\\2\\1\end{array}$	England South Africa Total	1 1 451

NUMBER of Visitors to the Rocky Mountains Park, from July 1, 1900, to June 30, 1901.

Where located.	No.	Where located.	No.
Canadian Pacific Hotel	2 104	Summer visitors residing in cottages and boarding houses Excursion from Calgary, etc Total	500 1,500 8,156

MUSEUM.

NUMBER of Visitors from July 1, 1900, to June 30, 1901.

Where from.	Number.	Where from.	Number.
Canada Canada England Australia Havanian Filande Havanian Filande Jaquan Treland Ower Zeniand Ower Zeniand Optia.	575 148 39	Switzerland South Africa	1

CARETAKER of the Cave and Basin's Annual Report, showing Number and Nationality of Visitors from July 1, 1900, to June 30, 1901.

Where from.	Number.	Where from.	Number.
Canada. Secaland. Teshand. Australia. New Zealand. Queenaland. Queenaland. Queenaland. Durina. Turina.	$ \begin{array}{r} 1,565 \\ 205 \\ 35 \\ 15 \\ 30 \\ 15 \\ 20 \\ 10 \\ 3 \\ 8 \\ 21 \\ 835 \\ \end{array} $	Honolula Gana Germany Vertrany Wetterland Austria France Sweden	30 25 19 12 7 3 3 10 20 2,891

D. D. GALLETLY, Caretaker Cave and Basin.

ROCKY MOUNTAINS PARK.

MAXIMUM and Minimum Temperatures and the General State of the Weather between July 1, 1900, and June 30, 1901.

	Tur	BMOMETE	a Realar	209	
	THE	BROMETE	S READI	508.	
Date.	Maxi	mum.	Minimum.		Weather.
	6 a.m.	6 p.m.	6 a.m.	6 p.m.	
	0			0	
1900.					
July 1	47.7	55.3	37.0	39.8	Cloudy, rain.
	47.0	$\frac{56}{55}$	38.8	39.0	
- 3 - 4	$\frac{52.6}{52.7}$	65.2	40.9	31.8	Cloudy, rain, hail and thunder. Fair, light rain.
- 5	61.1	61.1	32·2 47·0	48.5	Fair.
. 6	55.5	62.6	44.8	44.2	Cloudy.
. 7	59.3	68.4	41.8	42 8	
····· 8 • 9	67.4 59.5	$69^{+}4$ $67^{+}4$	40.3 44.7	41.2 45.8	Fair, rain, thunder.
. 10	65.6	77.4	37.2	28.2	Fair, perfect day.
·· 11	75.6	77.0	44.8	45.8	in in the second se
- 12	73.0	57.7	41.2	41.2	Cloudy, rain, heavy thunder.
. 13	$\frac{52.7}{62.8}$	65.7	45.2		Fair.
·· 14 ·· 15	67.8	70 · 9 67 · 4	33·9 41·5	34:5	Fair, light rain.
16	63.6	71.9	38.7	39.8	Cloudy, rain, thunder.
. 17	54.8	57.9	43.0	43 8	Cloudy, rain.
. 18	49.2	66.2	36.2	36.8	Fair.
·· 19 20	5619 6619	67.9 76.4	36·8 39·7	38.0	Fair, very light rain.
0 21		71.1	45.0	46.0	Fair, perfect day.
. 22	$72.0 \\ 67.8$	77.0	44.5	45.2	
5 23	74.8	84.7	45.8	47.2	
. 24	78.6	83.4	42.9	43.5	Fair, rain, thunder and lightning, very squally wind.
25	7716 6818	$71.5 \\ 65.7$	46.4 48.8	47.0	Cloudy, thunderstorm. Cloudy, rain, thunder.
27	57.4	64.5	46.8	47.2	Cloudy, rain.
. 28	61.6	71.4	39.3	40.5	Fair.
. 29	67.0	75.2	50 1	55.0	Fair, perfect day.
30 31	78.0	77.4	39.0	42.5	10 0 0 C
Aug. 1		80.4	49.8		Fair, thunderstorm.
	76.1	55.3	44.1	44.8	Cloudy, light rain, very squally wind.
. 3	52.2	55.8	46.2	47.0	Cloudy, rain.
· · · · · · · · · · · · · · · · · · ·	52.6	55·3 63·4	39.8 36.7	40.5 37.3	10.1 ···································
- 5 6	58°8	57.4	36.7	37-3	Fair.
. 7	55.7	63.5	31.2	31.0	
8	55.2	64.9	30.2	30.2	Fair, rain.
. 9	52.2	46:0	44.8	42.8	Cloudy, rain.
10 11	$\frac{44.8}{53.7}$	53·7 56·1	39·8 43·5	39.4 43.0	
12	53.2	65.3	46.0		Fair.
13	62.8	64.4	40.0	40.5	Fair, light rain.
14	63:6	70 4	39.3	39.8	Fair.
15	69.6 65.5	71·5 54·9	38.2 41.7	38.1	Fair, light rain.
17	54.0	* 58.1	42.3	42.0	Cloudy, rain. Cloudy, very light rain.
18	52.3	62.7	47.2	47.8	Cloudy, light rain.
. 19	58.6	66 4	43.2	42.8	Fair.
· 20	62.6	72.0	37:0	37.0	Fair.
21	68.4 50.2	64 0 63 4	37.2 38.2	37:5	Fair, light rain. Fair.
23	59.9	60.4	49.8	50.0	Fair. Cloudy, rain.
24	55.9	60 5	47.6		Fair, light rain.

MAXIMUM and Minimum Temperatures, &c.-Continued.

Date,		ERMOMETS		NGN,	Weather.
	6 a.n.	6 p.m.	6 a.m.	6 p.m.	
1900.					
Ang. 25 26 27 28 29 30 81	$55^{\circ}8$ $33^{\circ}6$ $50^{\circ}4$ $54^{\circ}7$ $51^{\circ}9$ $59^{\circ}8$ $54^{\circ}5$	$\begin{array}{c} 43.0\\51.9\\62.3\\54.9\\62.4\\63.8\\56.7\end{array}$	$\begin{array}{c} 43.8\\ 28.5\\ 33.6\\ 36.7\\ 35.8\\ 34.5\\ 44.8\end{array}$	28 2 33 5 36 8	Cloudy, rain and snowstorm. Fair. Cloudy, rain. Fair. Fair.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 516777774594668777\\ 61759653094668777\\ 653568655774382988777\\ 7663566577766867777\\ 76666666777766666666$	9 2 6 1 9 2 3 5 2 9 2 8 1 2 2 2 7 4 9 4 3 2 7 5 1 5 9 4 6 9 88 6 7 6 4 1 8 9 5 7 6 7 6 7 6 7 6 7 7 8 2 8 7 7 5 1 5 9 4 6 9 88 6 7 6 4 1 8 9 5 7 6 7 6 7 6 7 6 7 7 8 2 9 8 0 8 8 6 5 5 7 7 8 4 4 8 5 8 9 8 88 6 7 6 7 6 7 6 7 6 7 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7	$\begin{array}{c} 5&1&0&2&0&2&5&5&5\\ 2&3&4&2&6&2&8&3&2&0&8&2&5&5&2&8\\ 3&3&3&3&5&5&5&7&2&0&5&5&2&8&3&2&0&8&2&5&5&2&1&1&5\\ 3&3&3&3&3&3&3&3&3&3&3&3&3&3&3&3&3&3&3&$	4 9 4 8 7 8 5 5 0 8 9 9 7 8 6 9 6 7 9 5 6 7 9 5 7 8 5 7 8 5 5 0 8 9 9 7 8 6 7 9 7 9 5 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	Fair, Pair, rain, Cloudy, rain, and anow flurries, Cloudy, sance flurries, thin ice on still water. Fair, perfect day, thin ice on still water. Fair perfect day. Cloudy.
30 0ct. 1 2 8 3 6 4 5 6 6 8 7 8 10 11 11 12 12 13 13 14 16 17 18 21 21 22	$\begin{array}{c} 34 + 4 \\ 9 \\ 9 \\ 9 \\ 8 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9$	0 2 4 8 8 2 2 0 7 2 8 6 3 6 2 0 0 4 6 8 8 9 2 8 33 2 37 2 3 9 6 2 4 0 7 4 8 6 3 6 2 0 0 4 6 8 8 9 2 8 6 3 3 2 3 7 2 3 9 6 2 4 7 4 8 6 2 2 6 9 6 9 6 9 6 9 4 4 2 2 8 8 9 2 8 6 7 2 4 6 8 6 9 7 2 8 6 7 2 8 6 9 7 2 8 6 9 7 2 8 6 9 7 2 8 6 7 2 8 6 7 2 8 6 9 7 2 8 6 9 7 2 8 6 9 7 2 8 6 9 7 2 8 6 7 2 8 7 2 8 6 7 2 8 6 7 2 8 7 2	5 6 5 6 4 6 2 8 5 2 8 8 1 3 0 5 2 0 8 2 0 5 5 5 5 8 9 9 8 4 5 1 3 9 3 3 1 3 0 3 2 0 5 5 5 5 8 9 8 9 8 4 5 1 5 1 5 1 5 1 5 2 0 5 5 5 5 5 8 9 8 9 8 1 5 1 5 1 5 1 5 2 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	$\begin{array}{c} 25 & 0 & 7 \\ 222 & 7 & 9 \\ 215 & 0 & 8 \\ 300 & 8 & 1 \\ 240 & 30 & 8 \\ 300 & 8 & 1 \\ 340 & 8 & 30 \\ 351 & 8 & 8 \\ 311 & 8 & 311 \\ 395 & 1 \\ 314 & 6 \\ 314 & 6 \\ 314 & 6 \\ 316 & 6 \\ $	Cloudy, snow flurries and light snow.

iv

MAXIMUM and Minimum Temperatures, &c .-- Continued.

		Тні	ERNOMETI	er Readi	NGS.	
D)ate.	Maxi	mum.	Mini	mum.	Weather.
		6 a.m.	6 p.m.	6 a.m.	6 p.m.	
1	900,	D	0	0	D	
Oct. "	$ \begin{array}{c} 24 \dots \\ 25 \dots \end{array} $	$\frac{31.0}{34.6}$	36.7 33.7	$\frac{28 \cdot 2}{32 \cdot 8}$	$27^{+4}_{-31^+2}$	Cloudy, Cloudy, snow and light rain; large flock of grosbeaks about.
==	26 27	$\frac{31.6}{29.8}$	36.0 32.0	29.0 15.5	28.1 14.3	Fair. Fair, skating on ponds.
	28	27.0	39.2	25.0	25'0	Fair, skating on ponds.
11	29	33·7 31·8	$37.0 \\ 35.8$	23.6 25.6	22.8 24.4	Cloudy.
	30 31	32.8	39.0	30.8	30.2	Fair.
Nov.	1	34 9 29 8	$37.1 \\ 35.8$	30°5 22°8	29.8	Cloudy, snow flurries; Bow River partly frozen over.
	2 3	34.6	35.8	32.0	30.3	Fair, squally wind,
	4 5	31 8 32 8	35·2 35·9	$29.8 \\ 21.0$	28.7	Fair, perfect day. Fair.
	6	33.5	41.6	31.2	31.2	Cloudy,
	ã	40.0	43·8 46·1	31:0 30:8	29.5	Fair, perfect day. Cloudy, light rain, soft hail.
	9	38.7	33.3	27.8	23.0	Fair, perfect day.
	10 11	26·2 33·3	36.0 42.2	14·7 18·5	13·9 17·5	
	12	38.0	47.2	27.1	35.2	Cloudy, light rain.
	13 14	35°6 40°0	41.8 27.6	21.8 28.8	20'2	Fair, perfect day. Cloudy snow flurries
	15	19.8	13.1	12.5	9.6	Cloudy, snow flurries. Cloudy, light snow.
	16	$-\frac{10.2}{3.2}$	-5.0	3.2	-4.0	Cloudy, snow; Bow River frozen over to boat house. Cloudy, snow; first sleighing.
12	18	9.2	-10.8	-148	-18.6	Fair, snow flurries.
	19 20	$-9^{\circ}2$ -10^{\circ}5 -12^{\circ}4	-8.2 -6.8	-14.3 -30.6	-14.7 -32.4	Fair.
	21	-11.5	2.6	-16.5	-13.2	Cloudy, light snow.
	22 23	-3.0 0.2	-1.5 30.2	-12.7 - 8.2	$-\frac{8.1}{0.0}$	Cloudy, very light snow. Cloudy, light snow and sleet; chinook.
	24	27.8	34'6	26.0	26.5	a chinook wind,
	25 26	31 · 8 37 · 5	41.8	30.6 32.5	31.0	Cloudy, light snow.
	27	32 8	34.7	29.2	29.5	Cloudy,
	28 29	32.8 34.5	$\frac{39}{37} \frac{0}{2}$	$\frac{27.2}{31.2}$	27.8	Fair. Cloudy, snow flurries.
	30	39:0	42.0	34.3	34.0	Cloudy, light rain : Bow River ice breaking up.
Dec.	1 2	39·7 31·0	36.2 35.7	32.0 23.9	26.0	Fair, perfect day. Cloudy.
	3	34.6	33·3 37·7	26.0		
	4 5	$\frac{29.0}{35.8}$	42.8	18.5 34.0	35.5	Cloudy, light snow and soft hail. Cloudy, light rain.
	6	$\frac{43.0}{42.2}$	42.9 44.3	35.9	36.5	Cloudy.
	7 8	42.2	19.3	37·7 20:0	14.0	Fair. Cloudy, snow flurries.
-	9	15.2	28.9	12.1	14.0	Fair.
	10 11	$\frac{24.5}{23.2}$	24÷0 29÷8	13·2 18·2	$\frac{11.4}{21.0}$	Fair, very squally wind.
	12	29.6 31.5	29·8 36·0	25·5 28·0	24.4	Cloudy. Lake Minnewanka free of ice. Cloudy.
	13 14	33.2	36.1	28.1	27.9	Fair,
	15	36 0 35 0	38°1 39°8	31 · 1 31 · 8	32.0	" Cloudy, light snow.
	16 17	33.2	33.9	29.8	29.0	Fair, snow flurries.
	18 19	29°5 30°0	32.0 39.9	$21.8 \\ 27.9$	24.2	Fair, Cloudy.
	20	36.8	36 0	31.6	32.0	Cloudy, rain and snow.
	21	34.8	38.3	32.5	31.8	Fair.

MAXIMUM and Minimum Temperatures, &c .- Continued.

	Tu	RMOMETE					
	In	CR3O31211	IN IN BADI	AG5.			
Date.	Maxi	mum.	Mini	mum.	Weather.		
	6 a.m.	6 p.m.	6 a.m.	6 p.m.			
1900,	1.0	-	-				
Dec. 22 	31 · 8 17 8	$24.9 \\ 23.7$	$^{21}_{58}$		Fair, perfect day. Cloudy.		
. 24	23 0 30 4	31 3 28:0	19 8 22 2	24.2	Cloudy, snow flurries. Cloudy.		
·· 26 27	$ \begin{array}{c} 27 & 2 \\ 24 & 8 \end{array} $	26 · 9 22 · 2	20.0 6.2	18 9	Cloudy, snow flurries. Fair.		
	18:0	$25 \cdot 1$	11 4	16.0	Cloudy, very squally wind, light snow.		
29 30	24.1 8.8	21·1 3·0	$18.8 \\ -16.1$	-15 4	Fair.		
31	- 0.3	2.7	=11 0	-12.3	ice on Bow River about 10 inches.		
1901.		5.0			Charles and the line		
Jan. 1 	$-\begin{array}{c} 0 & 2 \\ 2 \cdot 5 \end{array}$	- 7.5	- 7.6	-12.6	Cloudy, snow flurries, light snow. "light snow, squally wind.		
	-12.0	$=14 \ 0$ $-11 \ 1$	-19 4 -18 3	-20.9 -19.9	Fair, light snow, squally wind. Cloudy, snow.		
. 5	-13.5	13.0	-20.1	13.2	Fair, squally wind.		
. 6	1.8	$= \frac{8.6}{2.1}$		-10.5	Cloudy, light snow, very squally wind. Fair.		
	$^{-10.0}_{-11.0}$	$-\frac{4.9}{8.2}$	$^{-18}_{-17}$	$-15^{\circ}3$ $-15^{\circ}5$	 light snow ; sleighing good. 		
· 10	6.0	15:2	-10.0	= 5'9	Cloudy, squally wind.		
. 11 . 12	24.0	$ \begin{array}{c} 23 & 2 \\ 32 & 2 \\ 37 \cdot 9 \end{array} $	$\frac{12.1}{22.3}$	$\frac{12.7}{24.5}$	a snow.		
. 13	35-2 35-0	37 · 9 32 · 5	30-4 29:8	$\frac{31}{28 \cdot 3}$	light snow.		
. 15	29°6 23°8	24 · 3 33 · 4	$\frac{21 \cdot 2}{21 \cdot 7}$	2018 23.5			
- 16 - 17	30.8	36.2	21.9	20.3	Fair, perfect day.		
- <u>18</u> - <u>19</u>	28°3 26°0	25·2 34·2	20:5 20:8	18.8 21.7	· squally wind.		
	33·5 29·6	30-8 26-8	26 0 7 2	25 0 6.8	perfect day.		
·· 21 22	23.8	29-2	11.4	14'5	Cloudy, snow flurries.		
- 23	25·8 26·0	24 3 33 7	6 8 20.2	4.0 21.4	Fair		
25 26	30.8 23.2	26.2	26.0 19.0	22.8	Cloudy.		
27	28.0	$27 \ 5 \ 36 \ 5$	24.9	17 9 27 5 28 0	squally wind, light snow.		
· 28	34·5 29·5	$\frac{33.0}{22.0}$	30.0				
- 30 - 31	13.4 19.6	$\frac{21.1}{20.3}$	1.0	2.7	Cloudy. Fair; ice on Bow River about 20 inches.		
Feb. 1	19.0	25 8	10.2				
	23·8 17·1	$\frac{21.8}{12.8}$	10°9 5-4		 light snow. snow flurries. 		
· 4 · 5	$-\frac{3.8}{4.6}$	$\frac{1}{16.2}$	$-12.7 \\ -17.6$	-14 9 -19 0	Fair.		
. 6	11 6	24 0 19 9	$-\frac{7}{17}$	- 8.6	Cloudy light snow		
	$\frac{22.6}{13.6}$	18.2	-12 4	-13^{-2}	Cloudy, light snow. Fair.		
9 - 10	18:0 17:4	$\frac{19.3}{25.1}$	$-\frac{0}{1}\frac{4}{5}$	- 3.0	Cloudy. Fair.		
	24 · 4 33 · 1	35 · 9 38 3	21.3 25.5	18.8	Cloudy. Fair, squally wind, chinook.		
12	36.9	39 0	25.8	24 3	Cloudy, eninook wind.		
· 14 • 15	37.6 35.0	40 0 24:5	33 8 17 0	25 2 13 3	Cloudy, snow.		
16.	25 2	35 0	23.4	25 0			

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

MAXIMUM and Minimum Temperatures, &c.-Continued.

	Тны	RMOMETE	e Readi	NGS.	
Date.	Maxi	mum.	Mini	mum,	Weather.
	6 a.m.	6 p.m.	6 a.m.	6 p.m.	
1901.	0	۰	0	•	
Feb. 17	27.8 9.5	16.9 11.0	-11.0 -0.1	- 2·2	Fair, snow. " snow flurries.
" 18 " 19	2.8	5.2	-19 6	-21.6	 show nurries. squally wind.
20	12 2	10.3	- 3.8	- 4 3	Cloudy.
21	0.8	8.9	-18.4		Fair.
22	- 0.5	11.2	23.6	-25.3	
., 23	6.7	$\frac{27.9}{38.2}$	-10.7 23.0	6.5	Cloudy, squally wind.
24	26.5 34.0	41.7	23 0		Fair.
· 20		39.9	28.2	27.8	Cloudy.
	36.0	43.6	33.0	34 5	Fair.
	42.2	44.9	40.2	38.5	Cloudy, rain, ice on Bow River, 24 inches.
Mar. 1	38.9	41.0	34.2	33.7	Fair.
. 2	37 · 8 24 · 6	30.8 18.4	$29.0 \\ 16.2$	23.9	Cloudy, snow flurries squally wind. Cloudy, snow.
·· 3		18-1	-17.5	-19.5	Fair, perfect day.
5		34.8	1.0	2 5	Fair.
» 6	31.6	38.1	12.8	12 2	Fair, ice on Bow River, 28 inches.
	33.8	39.1	20.2	19.6	Cloudy.
и 8	3518	31.2 35.0	27.5	26.2	Cloudy, light snow. Fair.
» 9 » 10	28.2 30.2	36.2	7.2	11.0	Fair sleet
" 10 " 11		32.0	16.8	17.8	Fair, sleet Fair, light snow.
	27.8	32.2	10.0	9.8	Fair.
н 13	31.0	38.0	19.2	19.5	1.4
n 14		44.0	29.8	29.2	Fair, perfect day.
» 15 » 16	42.2 43.5	45.8 49.5	23.8	33°0 23°0	
" 17		47.2	32.0	31.2	Fair, snow flurries.
18	33 0	38.5	27.8	28.0	Fair, perfect day.
. 19	34.0	42.2	15.0	14.0	9 9
n 20	39.2	44.2	27.5	34.0	Fair.
21	40.5	42.0	28.0 12.8	19:0	Fair, snow. Cloudy,
" 22 " 23		36.6	28.2		Cloudy, snow.
. 24		39.3	21.7	21.2	Fair.
	34.1	39.8	26.2	25.8	1.0
	34.6	38:4	14:5	13.8	The strenking over
" 27	34.8	38°3 38°2	13.8	8.8	Fair, sleighing over. Fair.
" 28 " 29	34.4	40.5	15.9	16.5	N OLLY
	35.5	36.1	11.0	10.5	
	33.6	38.0	23.2	22.9	Fair, Mt. bluebirds, finches, poplars budding, ice on Bow River, 19 inches.
April 1	32.6	36.9	20.5	22.0	Cloudy, snow flurries, waxwings,
. 2	32.8	33-8	25.1	25.5	Cloudy, snow.
» 3	28.8	33-8	20.9	21.0	Cloudy, light snow, juncos about.
4	29.5 31.6	33.9	4.2	3.9	Cloudy. Cloudy, light snow.
		33.0	21.0	22.5	Cloudy, nght show.
7	29.5	38.4	14.3	15.5	Fair, perfect day.
., 8	37.5	46.4	9.8	10.8	Fair, perfect day, anemones in flower,
. 9	43.8	49.7	18.3	18.8	Fair, perfect day, robins about. Fair, Bow River open, perfect day.
" 10 " 11	46°0 49°5	51 °6 52 °3	23.6 43.2	24 8 43 5	Fair, Bow River open, perfect day. Cloudy, light rain.
12	49.5	44.9	27 5	27.3	Fair, geese and duck flying N.E.
. 13	43.2	43.2	19.0	19 5	Fair.
. 14	38.9	35.7	23.8	23.8	Cloudy, snow flurries.

MAXIMUM and Minimum Temperatures, &c .- Continued.

THERMOMETER READINGS.									
Date		(LH)	RMOMETE	R READI	NGN.				
				-					
		Maxi	mum.	Minimum.		Weather.			
	1.	6 a.m.	6 p.m.	6 a.m.	6 p.m.				
1901.									
April 15.		33.6	36.1	20.3	20.7				
" 16. " 17		31.8	45.8 50.3	16.0 28.7	19:0 28:8				
		44.7	47.0	26.9	26.9	Fair, grass becoming green.			
н 19. н 20.		43.7	48.0 45.2	31 0 35·3	30.8	Cloudy, Cloudy, snowstorm.			
и 21.		33.6	40 6	26.7 27.3	26:4	Cloudy.			
н 23.		38.4 49.5	50.8 45.0	27-3	27:0	Fair. Cloudy, soft hail and snow.			
u 24		38.4	40.2	26.4	26 8	Fair.			
u 25. u 26.		37.8 36.0	40.3 36.0	20:0 26:5		Cloudy. Cloudy, snow, purple firches.			
		35.8	43.5	18 5	19.0	Fair.			
· 28. · 29.		41.7	53°3 61°0	20.2 20.2	21.5	Fair, bees about, catkins on poplars. Cloudy, house flies about.			
н 30.,		58 8	53 8	34.3	34.2	Cloudy, rain, mesouitoes about.			
May 1.		5315 6315	67 1 60 6	35-8 35-7	35.8	Fair, butterflics, frogs piping. Fair, light rain, river rising, no snow on ground.			
н З.,		52.9	49.6	38.9	38:3	Cloudy.			
н 4 н 5		48.8	5819 5219	26.5 31.1	2618	Fair, light rain. Fair, warblers.			
н 6		49 9	56.1	32.8	32.6	Fair.			
		54 9 47.6	56:8 45:2	28.2 30.2	29.8	Fair, light rain. Cloudy.			
н 9.,		40.2	43.8	27.4	27.7	Fair, snow flurries,			
и 10. и 11		39:8 50:5	$52^{+}4$ $62^{+}7$	21·3 27·2	22.2 29.9	Fair.			
и 12.,		57.3	63.9	40.9	41.0				
и 13		61.5 59.7	63·0 63·3	43 · 2 38 · 0	45.2 42.0				
н 15.,		61.5	64.8	32.8	38.5	Fair, tanagers about.			
и 16		59.6 55.3	65·7 52·4	44.3	50.3	Cloudy, Lake Minnewanka free of ice, Cloudy, rain.			
и 18.,		48.6	53.9	35.0	35.5	Fair, light rain.			
н 19 н 20		43 0 42·1	$\frac{42.2}{56.8}$	30.0 33.5	$\frac{32.0}{35.0}$	Cloudy, rain.			
		53.7	47.2	31.5	38.5	Cloudy, rain,			
н <u>22.</u> н <u>23.</u>		40.9 51.8	55·9 52·3	32.0 41.2	33.5	Cloudy, swallows about. Cloudy, rain, humming birds.			
в. 24		47.7	66.7	38.8	42.5	Fair.			
и 25		$\frac{62.4}{72.6}$	$\frac{75.0}{77.9}$	33·2 36·0	40 8	Fair, perfect day.			
11 27		74.7	79.4	38.0	42.8				
" 28. " 29.		75.8	70.4 58.9	44 0 43 0		Cloudy, rain.			
и 30		53.6	49.4	38.9	39.5	Cloudy.			
и 31		48.4	60.4	32 5	34 8				
June 1		5514 5918	63:0	46.1	47:0	Cloudy, rain.			
и 2. и 3.		55.6	62°0 59°3	39.4	41.8	Fair, rain. Cloudy, rain.			
. 4.		46.9	40.5	30.0	30.5	Cloudy, light rain and snow.			
а Б. а б.		45.2	47.3 50.4	30.0	32.6	Fair, light rain. Cloudy, light rain and snow			
		42.7 45.5	47 4 52 3	32·3 34/8	33-3	Cloudy, snow. Cloudy, light rain and snow.			
		43.5	50.9	37 5	0, 0	Cloudy, ngat rain and show. Cloudy, rain.			
" 10. " 11		44 5 45:4	51 5 43.1	$\frac{31}{37.6}$	31 8 37 4				
· 12		39.7	47 3	32 8	33 0				

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

MAXIMUM and Minimum Temperatures, &c.-Concluded.

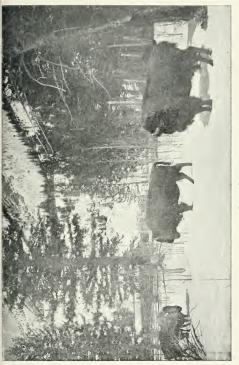
	Тн	ERMOMETE	r Readi	NG8.	
Date.	Maxi	mum.	Minimum.		Weather.
	6 a.m.	6 p.m.	6 a.m.	6 p.m.	
1901. June 13 14 15 16 17 18 20 21 223 23 24 25 25 26 27 28 29 29 30 30	$\begin{array}{c}\circ\\+44&0\\555&2\\466&5\\553&8\\62&9\\67&6\\72&2\\70&6\\64&6\\62&9\\60&8\\43&7\\41&0\\55&0\\61&0\\55&9\\55&7\\47&0\end{array}$	$\begin{smallmatrix}\circ\\57,3\\48,3\\64,8\\3\\64,4\\66,4\\42,1\\57,4,5\\66,4\\42,1\\57,4\\66,4\\42,1\\57,4\\65,5\\59,4\\61,9\\59,7\\61,9\\61,9\\61,9\\61,9\\61,9\\61,9\\61,9\\61,9$	$\begin{array}{c} \circ\\ 32 & 9 & 9 \\ 37 & 30 & 7 \\ 33 & 30 & 8 \\ 33 & 32 & 8 \\ 33 & 32 & 8 \\ 33 & 32 & 8 \\ 33 & 32 & 8 \\ 33 & 32 & 8 \\ 33 & 32 & 9 \\ 33 & 32 & 9 \\ 33 & 9 \\ 34 & 1 & 1 \\ 37 & 9 & 9 \\ 33 & 9 \\$	38-8 34-5 317-2 34-5 87-8 48-7 2 39-7 32-0 5 37-8 37-8 37-8 37-8 37-8 37-8 37-8 37-8	Fair, rain. Cloudy, rain. Fair. Fair. Fair. Fair. Fair. Fair. Fair. Cloudy, rain. Fair. Fa

NORMAN B. SANSON,

Observer.

terren Baar, Alta	10
700 Umio Birith	
a reach Munifolds Bat.0	÷,
now Yalley, from G. P. R. Hotel, Banff	
Deciting Hand Canyon, Bauff	
Ports Mountain Park, Babff	29







ALL USA DATE



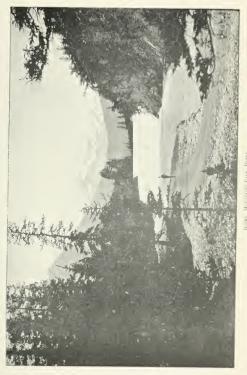




25







rlate No.



A. 1902

PART V.

NORTH-WEST REGISTRARS

1-2 EDWARD VII.

SESSIONAL PAPER No. 25

A. 1902

NORTH-WEST REGISTRARS.

REPORT OF INSPECTOR OF LAND TITLES OFFICES.

REGINA, July 31, 1901.

JAS. A. SMART, Esq.,

Deputy Minister of the Interior, Ottawa.

SIR.-I have the honour to make the following report of the work done in the Land Titles Offices of the North-west Territories for the year ending June 30, 1901.

The total amount of fees received in all the offices was \$28,230.96.

In 1899 and 1900 the total fees were \$22,239.44.

An increase for this year of \$5,993.52.

These fees were collected by the different offices as follows :---

Offices.	1900-1901.	1899-1900,	Increase.
Asimboin Land Titles Office. North Alberta South Alberta East Saskatchewan West Saskatchewan	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 811,222 \\ 5,594 \\ 4,078 \\ 34 \\ 1,254 \\ 19 \\ 15 \end{array}$	\$3,093 75 1,600 30 1,119 09 308 60 Dec. 118 02

The numbers of instruments registered and certificates issued were as follows :--

NUMBER OF INSTRUMENTS.

Others	Number of In- 1900 1901. 1809 19		aunents.		
	1900–1901. – 1 5,374 2,704 1,597	1899-1900,	Increase		
Assiniboin Land Titles Office. North Alberta	2,704	4,843 2,216 1,280 643 62	531 488 917 Dec 40		

1-2 EDWARD VII., A. 1902

NUMBER OF CERTIFICATES.

Offices	Number	of Certificate	s Issued.
Omces.	1900-1901.	1899-1900.	Increase.
Assendo oia Land Titler Office North Alberta South Alberta East Suskatthewan Wee's Sockatthewan	2.650 1,351 1,164 9	2,415 1,174 881 369 43	235 177 283 Dec. 34

The work in all the offices has increased during the last year with the exception of the Battleford office.

During the last year I have inspected the land titles offices for north and south Alberta and west Saskatelewan, but I have not yet been able to give the registrars their annual vacation, but will do so at once.

Annexed hereto are the reports from the several registrars. I am, sir, your obedient servant,

> H. W. NEWLANDS, Inspector, L.T.O.

RETURN showing the work done at and receipts of the office of the Registrar, West Saskatchewan Land Registration District, for the year ending June 30, 1901, with a comparative statement of the year previous.

M. d	Instrumen	its Regist'd		ertificates ued.	Fees Co	allected.	386,	ase.	
Month.	1809-1900	1900-1901.	1899-1900.	1900-1901	1899-1900.	1900-1901	Decrease	Increase.	
July - Augusta September October November December January February March April May June		213 1 8 6 2	4 2 1 2 1		8 cts. 74 50 19 90 15 51 28 70 4 85 9 20 13 31 7 00 11 43 4 75	8 cts. 9 61 13 15 4 35 15 12 8 90	8 cts. 74 50 19 90 15 51 28 70 4 85 13 31 2 53 4 75	8 cts. 4 76 13 15 8 12	
Net decrease.	62	22	10	9	189-15	51 13	$\frac{164}{138} \frac{05}{09}$	26 03	

Plan of road filed in January, 1900, treated as instrument registered.

R. F. CHISHOLM, Registrar. 2

STATEMENT of Receipts, &c., in the Land Titles Office, East Saskatchewan Land Registration District, for the Year ending June 30, 1901.



Increase over previous year, \$304.15.

S. BREWSTER,

Registrar.

STATEMENT of Registration, &c., Land Titles Office for the Assiniboia Land Registration District, Regina.

Year and Month.	Number of Instru- ments.	Certificates Issued Free.	Number of Certificates Issued.	Assurance Fees.	Total Fees.
1900.					
July August September October, November December	254 433 3333 433 522	$^{+48}_{126}_{-60}_{-25}_{-58}_{-52}$	165 244 163 138 166 207	$\begin{array}{c} 122 & 80 \\ 122 & 30 \\ 108 & 05 \\ 111 & 95 \\ 122 & 90 \\ 211 & 10 \end{array}$	$\begin{array}{c} 919 & 10 \\ 1,008 & 70 \\ 859 & 65 \\ 961 & 85 \\ 1,062 & 75 \\ 1,388 & 25 \end{array}$
1991, January . February . March . April May	$427 \\ 390 \\ 539 \\ 529 \\ 647 \\ 524$	24 24 95 131 182 127	158 153 252 253 352 340	$\begin{array}{c} 178 \ 10 \\ 180 \ 50 \\ 195 \ 90 \\ 164 \ 70 \\ 269 \ 00 \\ 554 \ 70 \end{array}$	$\begin{array}{c} 1,220 \\ 85 \\ 1,169 \\ 80 \\ 1,341 \\ 90 \\ 1,185 \\ 05 \\ 1,401 \\ 45 \\ 1,797 \\ 55 \end{array}$
	5,374	960	2,591	2,282 00	14,317 20

F. F. F. FORBES, Deputy Registrar, A. L. R. D. SOUTH ALBERTA LAND REGISTRATION DISTRICT, CALGARY.

COMPARATIVE Statement of Registrations, dc., in the Land Titles Office, South Alberta Land Registration. District, for the years July 1, 1890, to June 30, 1900, and July 1, 1900, to June 30, 1901.

						1-2	EDWA
	Total Free	\$ cts.	373 60 236 85 366 85 366 85 366 85 366 85 214 56		270 55 270 55 220 31 520 31 520 40 214 33 214 33	4078-34	
	- 94 sommersk	\$ cts.	02.02.29 92.92 92.		2372892 2372892 2372892	561 29	INTER,
	Aggregate Xum- ber of Certi- ficates.		668288		92 A # 14 9 89	188	W. ROLAND WINTER.
	Pree Certificates Only.		2 T 2 2 5 9 12		9 2 2 5 5 2 9	301	ROLA
-	X u m b e r o f Instruments Registered.		8 8 9 <u>9</u> 8 5		140 156 138 138 138 138 138 138 138 138 138 138	1,280	W.
	Year and Month.	1899 1900. 1899.	July August. September Octolor November December	1900.	January Fodoruary March April Juno	Irrigation Plans.	
n a mile (>	Total Fees.	& cts.	863 65 863 65 877 29 877 29 877 29 876 50 877 29 876 50 877 29 876 50 877 29		311 90 208 80 521 95 649 50 649 50 644 89	5207 43 6 00 1	
00* 600 D	Assurance Fee.	& etc.	444 444 444 444 444 444 444 444 444 44		86 20 86 20 80 86 20 86 20 86 86 20 86 20 86 80 80 80 80 80 80 80 80 80 80 80 80 80	787 53	
	Aggregate Num- ber of Certi- ficates.		3 2 2 <u>0</u> 2 2 2		145 32 107 121 121	1,164	
	Free Certificates Only.		12 15 ± 0, 17 18		5 2 2 2 2 2	378	
	X umber of Instruments Registered.		125 125 125 125 125 125 125 125 125 125		132 87 1123 176 208 182	1,567	
	Year and Month.	1900-1901. 1900.	July August September Norober Decomber	1901.	January February March April. May.	Irrigntion plans	

Registrar.

Ŧ

STATEMENT of Registrations, &c., in the Land Titles Office, North Alberta Land Registration District, Edmonton, for the year ending June 30, 1901.

	Year and Month.	Number of Titles Issued.	Number of Free Certifi cates.	Number of Instruments Registered.	Astman - For-	Total Fees Calcetol.
July . August September October November December	1900.	74 965 144 777 58 74	36 45 78 10 15 22	$ \begin{array}{r} 141 \\ 230 \\ 190 \\ 146 \\ 125 \\ 197 \\ 197 \\ \end{array} $	8 15 57 10 57 10 59 75 49 75 58 35 58 35	8 cts. 822 1. 181 95 465 50 324 20 363 77 520 55
January February March April May June	1901.	173 123 163 120 127 122 1,351	29 34 78 42 47 56 515	209 207 313 298 244 254 254	$\begin{array}{c} 178 \\ 77 \\ 95 \\ 114 \\ 60 \\ 73 \\ 45 \\ 106 \\ 15 \\ 92 \\ 20 \\ 971 \\ 40 \end{array}$	$\begin{array}{r} 554 \\ 746 \\ 789 \\ 40 \\ 720 \\ 15 \\ 689 \\ 05 \\ 616 \\ 35 \\ 6,994 \\ 50 \\ \end{array}$

GEO. ROY, Registrar.

A. 1902

PART VI.

HALF-BREED COMMISSIONERS

25-vi-1



HALF-BREED COMMISSIONERS

REPORT OF COMMISSIONERS MCKENNA AND WALKER.

DEPARTMENT OF THE INTERIOR, OTTAWA, March 11, 1901.

The Honourable CLIFFORD SIFTON, K.C., P.C., Minister of the Interior, Ottawa.

Sum,—We have the homour to report that in accordance with Letters Patent issued to us under the Great Seal on the 13th day of March, 1900, and your letter of instructions of the 5th May last, we met the commissioners named to deal with the claims of half-breeds in the Saskatehewan country at Regina on the 12th May, and arranged as to the procedure to be followed.

We then proceeded to the investigation of the claims of half-breeds in Assiniboin and Alberta and such claims of Athabasea half-breeds as might be preferred, and held sittings for that purpose at the following places; the dates set opposite the names of the places show the time occupied at each point :--

ASSINIBOIA.

Willow Bunch										
Fort Qu'Appelle				66	May	29	66	June	23,	"
Touchwood Hills				66	June	25	66	June	29,	"
Fort Qu'Appelle				66	June	30.				
Swift Current				"	July	3	44	July	r.,	66
Maple Creek				 66	July	9	46	July	17,	66
Medicine Hat				46	July	18	44	July	21,	66

ALBERTA.

Lethbridge	from	July 23	to	July 2	6, 1900
Macleod		July 26			4, "
Pincher Creek		Aug. 6	"	Aug.	
Calgary		Aug. 10			
Edmonton		Aug. 21			
Victoria		Aug. 29			
Saddle Lake	. +6	Sept. 7			
St. Paul des Métis	. 14	Sept. 10			
Lac la Biche		Sept. 18			
Athabasca Landing		Oct. 1			
St. Albert		Oet. 9			
Lac Ste. Anne	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Oet. 19			
Edmonton		Oet. 29			
Fort Saskatehewan	64	Nov. 15	+ 6	Nov. 1	7, "
Edmonton	••	Nov. 19			
Wetaskiwin		Nov. 20			
Duhamel		Nov. 26			
Lacombe	14	Dee, 3	- 6	Dec.	6. 4

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

We received and dealt with 3,505 distinct written applications, representing claims by or on account of 4,397 half-breeds. These claims may be classified as follows :--

Claims allowed for living half-breeds	
breeds 1,097	0.000
Claims disallowed	3,306 235
Claims reserved for various reasons, of which the following are the principal :	
Insufficient evidence to establish title to scrip	
Born prior to July 15, 1870 Foreign residence	856
Manitoba birth Non-appearance of rightful claimants	
Questions connected with Indian Treaty et al	

Total...... 4,397

Scrip certificates have been issued by us as follows :--

MONEY SCRIP.

Form C 876 certificates for living half-breeds	
Form D1,417 certificates for shares of scrip in favour of the heirs of 439 deceased half-breeds	

Total \$315,600 00

LAND SCRIP.

orm E1,333 certificates for living half-breeds	319,920
'orm F732 certificates for shares of scrip in favour of the heirs of 658 deceased half-breeds	157,920

Total..... 477,840

As will appear by the above statement, scrip certificates were issued covering claims of 3.306 half-breeds, living or deceased, as follows :---

Total	 3,306

A few scrip certificates (Forms C and E), for living half-breeds, as well as a number of certificates (Forms D and F) to heirs of deceased half-breeds, have been issued by the commissioners in favour of the parties entitled to receive them, but have not yet been delivered to the half-breeds in whose favour they are drawn, chiefly because these parties were resident in other localities and were not present to receive them. These certificates are still in the hands of the commission awaiting delivery. They have been included in the above statement of scrip certificates issued, as it is the intention to take such steps for the prompt delivery of the same as may be deemed advisable.

These undelivered scrip certificates amount to as follows :---

284 certificates for money scrip (Forms C and D).. \$14,640 00 32 certificates for land scrip (Forms E and F) 5.760 acres.

A few claims of Athabasea half-breads were taken by ns, but not of sufficient importance numerically to warrant a separate statement, and they have, therefore been included in the totals already given herein.

Owing to the delay occationed by so large a number appearing at the first sittings of the commission, we were unable to attend at certain points, on the dates first fixed. A number of claimants were unable to await the arrival of the commissioners, and in order to remove any ground of complaint, we undertook to resonance that special sittings be held at a few principal points in the Territorie during the coming summer. These could be arranged for when provision is being made to investigate the claims of the half-breeds of the territory included in the province of Manitobh as now constituted, which was not included in the province as constituted by the Manitobh Act, 33 Vietoria, Chyter 3. The commissioners were unable to deal with these claims last **year**.

> J. A. J. MCKENNA, JAMES WALKER,

> > mmissioners.

REPORT OF COMMISSIONERS COTE AND MeleoD.

Department of the Interior. Ottawa, March 29, 19

The Honourable CLIFFORD SIFTON, K.C., Minister of the Interior.

Minister of the interior.

Suc.-We have the honour to report that in conformity with the enablishing issued to us bearing data March 24, 1000, and the order in examel for the 3nd of the sume mouth, as amended by subsequent orders in council of the 3nd of the vestigate and edjudicate upon the chains to land or serip arising out of the extinguishment of the Indian title, preferred by or on behalf of half-breeds horn between July 15, 1870, and the end of the year 1885, in the organized districts of the North-west Territories, or in that portion of territory included in the province of Manitoba as now constituted, which was not within the said province, as constituted under the Manitoba Act, 33 Victoria, Chapter 3, we beard evidence in support of 2,111 individual elaims to share in the grant authorized by the aforesaid orders in council and paragraph 'f' of clause 90 of the Dominion Lands Act as amouded by segion 4 of the Act 62-43 Victoria, Chapter 16 (1860), et sittings held letween May 15 and December 11 last, in the Sankatchewan district, at the following places :=

Prince Albert, St. Louis, Batoehe, Snake Plaina, Sandy Lake, Deedi's Lake, Green Lake, Battleford, Onion Lake, Bresaylor, Fert à la Grene, Strugeon River, Gumberland, Birch River Portage, The Pas, Cedar Lake, Grand Rapids, Saskattoon and Red Deer Lake.

Having ascertained that there were no half-breeds to some before us at Montreal Lake, we held a sitting at Red Deer Lake instead of at the former place as had been previously arranged.

In accordance with the instructions contained in the latter of May 5, 1900, from the Hon, James Sutherland, then acting Minister of the Interior, we also heard evidence in respect of thirty-five claims from half-breeds who were born prior to July 15, 1870.

All the foregoing claims have been entered in the Berjeters of Claims, Nes. 1 and 2, in which is also recorded the action taken by us on each case. An alphabetical fex to such claims containing all necessary information in relation thereto as also been carefully prepared. These books, the unused blank certificates entrusted to us (C 2008 to 2109, inclusive, C 1573 to 1209, inclusive, C 111 to 720, inclusive, C 330 309, inclusive, odd numbers cuty), the stube of the certificates we is used and the certificates we cancelled, have been handed into your department.

We issued in all 1.851 certificates (money scrip) calling for scip relemable in the purchase of Dominion Lands, aggregating \$344,266,55, and 492 land certificates

1-2 EDWARD VII., A. 1902

covering an area of 117,680 acres of land. The certificates so issued may be classified as follows :---

974	for \$240 each to persons claiming in their own righ	it.	
343	for \$240 each to the heirs of deceased persons.		
-			
1,817	for \$240	\$316,080	00
18	for \$190 each	3,420	00
1	for \$30	30	00
515	for fractional scrip to the heirs of deceased half-		
	breeds	24,736	55
			_
1,851		\$344,266	55
492	Land Certificates covering an area of	117,680	acres
-			
0 242			

Of these 492 land certificates, 487 certificates were for 240 acres each, 164 of which were issued to the heirs of deceased half-breeds, and five were for 160 acres each.

The tabulated statement appended hereto shows in detail the scrip certificates issued at each place visited by the commission, as well as the dates of its sittings, The claims dealt with by us may be classified as follows :--

Claims allowed, preferred by persons in their own right	1,352
Claims allowed, preferred on behalf of the heirs of deceased	
half-breeds	638
Claims preferred by persons born before the 15th July, 1870	35
Claims reserved for further evidence or special recommendation	23
Claims disallowed in addition to those, which, upon preliminary	
examination, were not entertained	98
-	
	0.140

Lists of disallowed and reserved claims, as well as of the claims preferred by persons born prior to July 15, 1870, have been filed in the department with the records of the commission.

Among the claims which have been allowed, there are 45 which have not been satisfied by an issue of certificates, as the persons entitled thereto were absent. In these cases, however, upon the claimants applying therefor to the department, the scrip can be sent to them. This course may also be followed with respect to shares of scrip which have not yet been delivered to the heirs of deceased persons.

The claims already referred to of persons born prior to July 15, 1870, are barred on account of their not having been presented within the time prescribed by the orders in ecuncil of April 20, 1885, and March 12, 1892, the former fixing May 1, 1886, and the latter May 1, 1894, before which dates Manitoba claims and North-west claims, respectively, had to be submitted.

We also find from the evidence taken in these cases, that some of the applicants were residents on July 15, 1870, in a portion of the North-west Territories which has not yet been ceded by the Indians under treaty, but that for many years they have been living in ceded territory, most of them having their domicile in Prince Albert. In view of these facts, we are of the opinion that these claimants should be treated as North-west half-breeds, and if it is proposed to reopen the latter class of claims, that their claims should be dealt with on the merits of the evidence submitted, irrespective of their residence at the transfer in territory not yet ceded.

As it seems to us expedient and in the public interest now that a final settlement is being made with the North-west half-breeds, that all claims, including Manitoba claims as well, which have been refused by the department from time to time, merely on account of their being barred by the two orders in council last mentioned, should

be allowed, we beg to recommend that steps bo taken to deal with this class of claims in the same manner as if they had been presented in due time.

A good deal of evidence also had to be taken in many cases, after a claim had been allowed, with regard to powers of attorney which had previously been obtained most of them some years ago—by intending buyers of the claimant's serie, which clearly showed that, with the exception of a few cases, no consideration whatever had been paid, and that the price mentioned in the agreement which was to be paid for the serie was far below the current price. In dealing with these cases, we verse guided entirely by the instructions contained in the order in council of March 13, 1000, which sitpalated that, unless we were satisfied that such powers of atorney, or assignments, did not operate to the diadvantage of the half-breed, they were not to be accepted 1; and in no case did we deviate from the position wo took at the outset of exacting the payment in our presence to the claimant of the full current price paid for serie before delivering the series. When the claimant of store of assignment. While this course proved satisfactory to the claimants, strong objection was taken to it by some of the buyers.

Had these powers of attorney been recognized, as a matter of course, much dissatisfaction would have been created among the half-breeds generally, whether presonally concerned in the transaction or not; and, in our opinion, a great injustice would have been done to the claimnuits, who, according to the evidence obtained by us, were ignorant of the purport of the documents they had been induced to sign, and which they most emphatically repudiated.

There were, however, a few bona fide transactions where a substantial sum had been paid on account of the purchase price of the scrip; but, where the powers of attorney in such cases were presented to us and the price agreed upon was found to be below the established price, the attorney was also required, before receiving the scrip certificate from us, to pay over the balance due the claimant at the rate at which scrip was being bought for at the time.

At Green lake we met a number of Isle à la Crosse half-breeds who were very anxious that the Indians of their section of the territories should be treated with, in order that they, the half-breeds, might receive their scrip for themselves and their children. There are also, it was represented to us, a few half-breed families at Stanley Mission and Pelican Narrows, all of which places will, no doubt, be covered by the same treaty when the tract of land lying north of the easterly portion of the land ineluded in Trenty No. 6 is ceeded by the Indians of that part of the country.

With the exception of a few isolated elaims which were not presented to us last summer on account of the absence of the elaimants, our work in the Saskatchewan district has been completed, and we are pleased to be able to state that the settlement made appears to have given entire satisfaction to all concerned.

There still remain, however, to be investigated and dealt with under our commission the claims of half-breeds in that portion of the province of Manitoba, already referred to, which heretofore formed part of the Territories ; and we would have proceeded, after the completion of our investigation in the Saskatchewan district, to deal with these claims had we not received instructions to the contrary.

In closing our report, we desire to mention that we received much assistance in the performance of our duties from Messrs. Charles Fisher, M.L.A., and Edouard Bourgeois, the scretary and clerk of the commission, respectively. Mr. Fisher's thorough knowledge of the English, French and Cree languages, and of the pople whose claims we bad to deal with, rendered his services most valuable to us.

> We have the honour to be, sir, Your obedient servants,

> > N. O. COTE, S. McLEOD,

> > > Commissioners.

	STATEMENC of Scrip issued in the Saskatchewon District. By Messix, N. O. Coté and S. McLood, Commissioners,	rrip issue I. O. Coté	ad in t and S.	he Sa McLo	MENT of Scrip issued in the Saskatchewan Dis By Messrs, N. O. Coté and S. McLood, Commissioners,	District. ners.					
					D.		Ξ.		-	E.	
Where issued.	When assued.				Hoirs.	Total \$			He	Heirs.	Total of
	1900.	8240 8190 830	90-830	\$240	Fractional Shares.	on C and D.	Acres 240	240 100 240 Acres Acres Acres 240	Acres 240	Acres 160	acres E and F.
Prince Albert	Deb May to 6th June.	303		133	4,942 32	109,992 32	91	-	38	-	42,500
	24th July to 31st July. 4th to 6th September.	21 = 1		00 00 I	706.90	5,506 90	53 + I		S 911		6,960
	23rd October to 11th December.	n=1		- 01	2,346 00	2,406.60	21 <u>6</u> 3 1	1	- 2 -	21	10,320
St. Louis Duck Lake	8th and 9th June. 11th to 21st June.	19		r: # 3	3,877 34	HC 200'81	-22		21 F		120
Suake Plain	ZZnd to Z5tn June, 30th June to 3rd July.	ह हा	21	2 1	2010.20	24,050 36 11,254 43	- e -		ñ'-		3,840
Devil's Lake	5th July.	1-0			17 78	1,697,78	-				1
Freen Lake.	11th to 1 fth July.	• <u>8</u> 1	212	31	1,182 86	27,962,86					110 4141
Sattleford Onion Luke.	20th and 21st August.	27		57 00	20 (55) fr	38,144 62 9,673 28	‡ ·S		<u>,</u> 21		13,920
Bresaylor. Fort à la Come.	24th August. 10th September.	10		21	20 202	2,400 00	\$?ì				970 1970
Sturgeon River.	14th September. 17th to 21st September.	πI	- 25	- 8	148 57 1,494 01	1,108 57 18,624 01	-				240
Birch River Portage. The Pas	22nd September. 27th and 28th September.	° 18		17 EI	585 24	2,110 00 13,775 24	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				071
Cedar Lake. Grand Rupids.	3rd October. 8th to 10th October.	34		Ξ	240 00	11,040 00	- 01		1		017
Saskatoon	24th and 25th October.	21				480-00					
		974 1	×	343	54,736-55	314,206-55	323	71	164	**	117,680
Total issued at Prince Albert	Total issued at Prince Albert on C and D \$126,283.14, E and F 62,000 acres.	2,000 acre									
OTTAWA, January 16th, 1901	01.							5	AAS.	FISH	CHAS. FISHER, and al

8

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

vi

PART VII.

REPORT

OF THE

LIEUTENANT GOVERNOR OF KEEWATIN

25-vii-1



REPORT OF THE LIEUTENANT GOVERNOR OF KEEWATIN.

Government House, Winnipeg, August 31, 1901.

The Hon. CLIFFORD SIFTON, Minister of the Interior, Ottawa.

Sim,--I have the honour to report that since my appointment I have been numble, personally, to make a journey into the territorial district of K-cevatin, but shall endeavour to make arrangements to do so in the near future. I have, however, had the opportunity of meeting some of the few principal residents, and have been furnished by them with much general information as to the conditious obtaining in K-ewatin during the past sesson.

In that part of the district bordering on the province of Manitoba the natives, besides being the wards of the government, have enjoyed a fairly prosperous year, anost of them being engaged in the prosecution of the fishing on and around Lake Winnipeg, and in the various employments which hinge upon the fisheries. I am glad to say that the past season's reports which have reached me regarding these fisheries are very favourable, and especially so since, in a successful year, there is no occasion for anxiety as to the means of livelihood of the natives.

Throughout the ecountry from the lake to the Hudson's bay, the information I have been able to gather indicates generally that the natives who are not in trenty with the government have been able to support themselves without recourse having to be made to charitable relief to any serious extent, and I am led to understand it is probable that the coming year will be marked by the usual food supply of the country, upon which dependence is placed, being less searce than it seems to have been during the past two or three years. Years of searcity in respect of rabbits and other animals, upon which the natives largely depend for food, run in cycles, and it would amore as if the worst participant of a neerid of demension in this respect had been passed

With regard to the most distant parts of the district. I have made inquiries of Mr. C. C. Chipman, the Commissioner of the Hudson Bay Company, who informs me that the natives in that part of the country have enjoyed better fortune during the past winter than for some years back. From so distant a point as the mouth of the Weenusk river, I have heard incidentally that the Iudians had a supply of fish stored for the winter so plentifully that when spring cume they had not quite exhausted it. The annual ship by which the Hudson Hav Compass supply their stations on that coast nearly suffered disaster has season by running upon a shoal at some distance from York Factory upon her unward journes. She was, however, able to complete her voyage safely, and the stations all received their supplies, and she has since been replaced by an exeman-forwar vessel of a very strong type.

I am pleased to be able to report a continued genesal absence of crime in the district. With the exception of the one crime, hereinafter referred to, no crimes whatever have been reported to me, and I think it extremely probable that if any had occurred they would have been brought to my attention.

The justices of the peace, Indian agents and Hudson Bay officials, throughout the district, are zealous in the preservation of the law and order, and are ably seconded by the chiefs and councillors of the second bands; so much so that with the exception before mentioned I have had to deal with no breaches of the peace.

25-vii-2

1-2 EDWARD VII., A. 1902

I regret to say that the exception is the serious charge of murder. In the month of March last an Indian woman, named Helen Frogg, was brought to Winnipeg from Norway House on the Nelson river, charged with the murder of her husband, Charles Frogg.

The preliminary investigation had been conducted by Mr. J. K. Macdonald, Hudson Bay factor at Norway House, who committed the prisoner for trial after an exhaustive investigation.

Two methods of trial of the prisoner were available, namely, either at Winnipeg at the regular sitting of the court for the trial of criminal cases, or by a judge of the Court of King's Bench proceeding to the district and holding the trial there. Under the Keewatin Act the Court of King's Bench for Manitoba has jurisdiction to try offences committed within the district, but the sittings of that court for the trial of criminal matters with a jury are holden in March and November, the one before the opening of navigation and the other after it had closed in the full.

In this particular case it appeared that some twenty-five Indians from Cross lake, a large number of whom were women, had been called as witnesses on the preliminary investigation and all of whom it would be necessary to bring to Winnipeg, a distance of some four hundred miles by dog train, should the trial take place in Manitoba: The removal of so large a number of witnesses and their families (when an Indian moves his family goes with him)so great a distance in winter time would involve, not only a very large expenditure, but a considerable danger to life. Under the eircumstances it was arranged that Mr. Justice Richards, one of the judges of the Court of King's Bench, should go to Norway House to hold the trial there on a baut the second day of August when the witnesses would be in the neighbourhood for the purpose of treaty parament.

I had reason to believe that in addition to the saving of expense this method of trial would entail, the trial of the prisoner in the neighbourhood, surrounded by all the solern forms of law, would have a good moral effect upon the Indians and would be an object lesson not soon forgotten. It would bring home to them the fact that they are within the protection and punishment of the law, and that there is no place too remote to be reached by the strong arm of justice.

Mr. Justice Richards, accompanied by Sheriff Inketer, T. G. Mathers, Crown prosecutor, and James Perkins, court stenographer, left Winnipeg on July 27, and on the same day sailed from Selkirk on the steamer *Princess* for Norway House. They arrived there on August 3, and on the 6th the trial began in one of the Iudson Bay Company's storehouses, which had been kindly fitted up for that purpose, before a jury of six settlers from the neighbourhood.

The trial lasted until August 13, and resulted in a verdict of acquittal, with which verdict his lordship concurred.

The good effect anticipated from holding the trial in the neighbourhood was fully realized. Until the trial the Indians of the prisoner's band, including the chief and councillors, were thoroughly convinced of the woman's guilt and were much exercised in case punishment should not be meted out to her. After, however, being present at the trial and having heard the judge's charge to the jury, which was sentence by sentence, translated into Cree, their opinions changed and they became convinced that the woman was not guilty and so expressed themselves.

Those best able to judge have testified to the wisdom of holding the trial in the vicinity. Rev. John MacDougall, who has spent forty years amongst the Indians, and who is now Superintendent of Indian Missions under the Methodist Church, who was present during the whole trial, in a published interview, says :

⁴ This whole community were interested in this trial which had become famous in their minds, having been an omnipresent thought with the most of these people since last autumn. For the first time these people were to wirness the administration of justice as in force under British rule. Certainly the government could not have been more fortunate than they were in the sel cition of the judge sent north, for Judge

Richards fully impressed all men in that country with the rightcousses and equity as well as charity of our English law. The full dignity of the bonch, as well as tho equality of manhood under our British institutions were fully impressed upon the minds of both native and foreigner. The holding of this court at that point was a great object lesson, and doubles will result in the suppression of crime and in the maintaining of order and good living amongst these people as possibly nothing clas would have done?

The territory would appear to be fairly well eared for as a field for missionary enterprise; the Episcepalian, Reman Catholie and Methodist Churches have each several mission stations, and all the natives have been brought under the influence of Christian teaching. Considerable progress is being made in the education of children, particularly in connection with the Industrial Home at Norway House, and there is some prospect of many of them growing up to be useful and ereditable eitizeus of the Dominion.

I look forward with some pleasure to travelling into the district at an early date.

I must express my great appreciation of the assistance afforded me by Mr. C. C. Chipman, Commissioner of the Hukson Bay Company, in obtaining for me, from the officials under him resident in the district, many particulars regarding the condition of the people and state of affairs throughout the district of Keewatia.

I have the honour to be, sir,

Your obedient servant,

D. H. MCMILLAN, Lieutenant Governor,

PART VIII

REPORT

OF THE

SUPERINTENDENT OF FORESTRY FOR CANADA 1901

25 - viii = 1



FORESTRY

REPORT OF THE SUPERINTENDENT OF FORESTRY

Department of the Interior. Forestry Branch, Ottawa, September 20, 1901.

JAMES A. SMART, Esq., Deputy Minister of the Interior,

Ottawa.

Sig.-I have the honur to submit the Annual Report on Timber and Forestry for 1901, being the third report from this branch.

In previous reports the details of the work of this office were referred to under several headings, and it will be well to adhere to this practice as far as possible in each subsequent report for convenience and comparison. Before doing this, however, in the present case it is necessary to refer to some matters that eannot be conveniently dealt with under any of these headings.

Oving to the development of the work, especially that relating to forest tree planting in Manitoh and the Northwest Territories, it was found necessary to have an assistant superintendent, and in March last, Mr. Norman M. Ross, B.S.A., was appointed. Mr. Ross has special qualifications for the position. In addition to his course at the Agricultural College, at Gueph, where he made a specialty of botany, he attended for some time the Biltmore School of Forestry under Dr. C. A. Schenek, and also accompanied the latter in forest investigations in Germany. He is familiar with our Northwest, having spent several years in the courty. Since his appointment he has been employed almost ceclusively in the Territories in assisting in the development of the system of eco-peration that has been adopted, by which the department undertakes to assist the settlers in the growing of sh, lare belta and forest plantations on their homesteads. The details of the system adopted will be found under the proper heading. Mr. A. P. Stevenson, of N-choo, has during this senson also been employed in connection with the same work in the province of Manitoha. Mr. Stevenson is recognized as an authority on arboriculture in that province.

Appended will be found reports from both Mr. Ross and Mr. Stevenson.

FOREST PROTECTION.

A system of forest fire guarding is now in operation, and following will be found several reports from those engaged in the service. The manner of their employment is as follows:—Forest fire rangers are selected from men residing in or near the distriet where they are to be employed. They are notified that they will be under the direction of a supervising officer, assually the Crown Timber Acent, regular forest ranger or homestead inspector for the district in which they are employed. When this officer considers their services are required he notifies them to commone work, furnishes them with eopties for porting up and distributing, warning the public agrounds the areless use of fire. Where lowes on the used they supply themselyces with them. Their remuncration in much cases is three dollars per day, which includes appeases for both man and horse. When the supervising offecer considers it uncessary for the

25-viii-11

ranger to continue the work longer, he recalls him and instructs him to make out his account, which is certified to by the supervising officer and is paid on being forwarded to the department accompanied by a diary detailing how the ranger has been employed each day. By this system the ranger is employed only when his services are necessary, and in case the season is very wet he may not be employed during the whole season.

During the past two seasons the weather was so wet that but little danger arose from forest fires, but since the early spring of this year up to the present there has scarcely been a time when it was not necessary to have rangers at work in one or other of the districts under supervision. In the early part of the season they were required in Manitoba and Eastern Assiniboia, while in British Columbia it was then so wet that they were not needed; but for the past two months these conditions have been reversed so that in Manitoba and the Territories their services were for the time dispensed with, while in British Columbia, as will be seen from Mr. Leamy's report, they have had almost constant work in fighting fire. It was very gratifying to see on my recent visit there that by their exertions they had in several cases succeeded in confining the fire within the limits of territory that had formerly been burnt over and thereby saved from destruction large quantities of merchantable timber. In one district south of New Westminster, a fierce fire broke out which at one time threatened to sweep for miles through excellent timber, but by the timely action of the Crown Timber Agent in employing assistance it was prevented from even entering the green timber. In this one instance alone millions of feet of timber were certainly saved. But the chief benefit derived from the employment of the fire ranger is in what he does in preventing fires. The extent of good done in this way can never be ascertained. As one of the rangers, whose nationality will be surmised, said, ' the best time to stop a fire is before it starts."

The country is also greatly indebted to the North-west Mounted Police in this respect. The members of this force have for years been most active in educating the people regarding the necessity of the careful use of fire at certain seasons of the year; in making known and enforcing the laws relating thereto, and also in their efforts in the field in suppressing or controlling fires which if allowed free course would prove destructive. The police being well mounted and familiar with the prairie, no better fire guardians could be desired, but a moment's consideration will show that they are insufficient to guard the whole area deserving attention. In the first place, owing to their other duties, they cannot be expected to be always in readiness for such work. Again, their duties are mostly on the prairie and not in the forest; while they are also confined to the Territories and are not supposed to do service in either Manitoba or British Columbia; so that all that can be expected of them is that they will give more or less attention to this service on the prairie and in the partially wooded districts of the Territories. It is, therefore, obvious that in order to have an effective fire service for both the prairie and wooded regions we require to supplement the efforts of the police on the prairie by fire guardians in the settled prairie districts, and by forest fire rangers in the timbered districts.

TIMBER RESERVES.

There is no work at present demanding greater attention than that of selecting and setting apart cortain areas of the country for the production of timber. The older settled parts of eastern North America are new paying the bitter penalty for the ruthless destruction of the forests at the sources of their rivers and streams. Each spring is to many localities a senson of anxiety, and never one passes without leaving behind its record of destruction of life and property. And this is not all, for on in the summer the very element that was wasted a few months before is addy wanting. The springs and creeks become dry and soon the deep wells also fail, and this is due directly to the demundation of the natural reservoirs by the destruction of the forest which one corered them. Our aim should be to work in harmony with and not in opposition to nature. She does not ask for the forest growth on the fertile and productive vallexs.

but only on the rough mountain tops and hill sides where the altitude is frequently too great for the growth of cereals, or where the land is rough and difficult to work. There also asks us to spare the forest in order that she may weave a net to hold back the water at these heights. Moreover, it will in most eases be found that the timber produced by this land is of more value than all the grain that could be grown thereon.

The several forest reservations or timber reserves already set apart as such will be referred to later on, and steps are being taken to increase their number. It may be well here to correct a popular impression regarding such reservations. A very general opinion seems to prevail that in setting apart these lands and reserving them from sale cr homestead entry the country is deprived of all benchit from such territory. This is very far from the facts of the ease. The true policy for any country like Canada, having still in its possession large areas of ungranted lands, would certainly be to explore the country in advance of settlement and then divide it according to its character into agricultural, timber and mineral lands. The agricultural lands can then be dealt with as seems wisest, for agricultural purposes, and the mineral lands for mineral purposes, but when we come to the timber areas we find that the utility of the forest is at least two-fold-first, for the merchantable value of its products, and secondly, ou account of the functions it performs in modifying the climate in the distribution of moisture, and lastly, in its great office when growing on mountain and hill sides, as previously stated, in holding back the water and causing a more even flow to the rivers and streams that always have their sources in those elevations. Captain Eads made a most pertinent remark when engaged on the improvements on the lower Mississippi, that he was working at the wrong end of the stream. A sound forest policy is one that recognizes the elements of growth and decay and takes means to harvest the erop at maturity, and even on those reserves whose chief value is in forming a natural water reservoir, there is no reason why the mature timber should not be cut, and it will be a matter for consideration as to the best policy to adopt in this respect.

There are also in our Dominion territory large areas of timber growing on comparatively level land, but which is not well adapted for agriculture, and within the past year certain of these have been set apart for timber purposes for the benefit of the prairie settlers.

RIDING MOUNTAIN RESERVE.

This reserve is well chosen and deserves the greatest care at the hands of the peopic of Manitoka, from the fact that it covers an area of elevated land from which flow most of the streams in that province west of the Red river. It is really the reservoir that supplies the water to a large section of the province, and to allow the forset covering on those hills to be destroyed would be, as sure as effect follows cause, to bring about a water famine too disastrous in its effects to be contemplated. Recognizing this fact, it has been the aim of the department to do all in its power to guard this reserve from fire. Two fire rangers, under Forest Ranger Thomson, have been employed on the south side of the mountain when necessary this season, while Forest Ranger Thos. Young has had there employed during the season of danger in guarding the north side and the timbered ountry beyond to the north-west along the line of the Canadian Northern Railway. In the early part of the season frequent fires were started, and the reports of the rangers alow that some timber was burnt, but that by active work the fire was confined to a line to an prevent from causing much loss.

SPRUCE WOODS RESERVE.

This reserve covers about 190,000 acres of land in what is known as the Sand Hills along the Assiniboine river, east of Brandon. It offers an excellent field for forest tree planting on a large seale. The land consists of sand hills, and between these are swamps where small sprace grow in abandance. The links are very open, any an occasional spruce tree being seen. Some of these are of food size and demonstrate that

vill

the soil is not too barren to grow certain varieties of trees, and it is likely that in addition to the spruce the Banksian and Scotch pine, both of which furnish useful timber, could be successfully grown here. There is also along the edges of the swamps, and where the land is not too light, a fair growth of aspen and balsam poplar. This reserve is under the care of a forest ranger.

TURTLE MOUNTAIN RESERVE.

This reserve lies along the iuternational boundary and consists of ranges 19, 20 and 21 in township 1. The eastern part is well timbered with aspen and balasm poplar with a few serub or mossy cup oak. It is difficult to protect this reserve from fire owing to the adjacent timber land south of the boundary being opened for settlement. During the early part of the present senson, Forest Ranger Walkinshaw had the assistance of one man in guarding the timber, and great difficulty was experimeed for a few weeks in May in keeping the fire from spreading from the burnings of the settlers along the boundary who were clearing their land. A fire guard along the west side has now been completed for the most part of the distance. As many of the fires come from the west this is a very necessary work. This reserve, being surrounded by hare parinje extending for many miles in each direction, is resorted to by the settlers from long distances for inducer for the settlers and other purposes.

MOOSE MOUNTAIN RESERVE.

This reserve consists of townships 9, 10 and 11 in ranges 2, 3, 4 and 5 west of the second meridian. It contains about 105,000 acres, and is surrounded on all sides by fertile prairie land. It contains not only a considerable extent of timbered land, but also numerous small lakes. Fish lake, which is the largest, is a fine sheet of good water in which fish are abundant. It is made the resort of campers in the summer season, and affords a very refreshing change from the monotony of the treeless prairie. A fire yuard has been built around the reserve by the North-west Territoring government, while this department has opened up a road and fire guard from north to south through it. The prevailing timber consists of aspect and halsam poplar with some birch. The reserve is under the care of a forest rauger, who in the dry season is allowed two fire rangers to assist him.

THE FOOTHILLS RESERVE.

This reserve embraces the eastern slope of the Rocky Mountains, between the Bow river and the international boundary. Numerous streams flow down this elevation, all of which go finally to feed the South Saskatchewan. Along these streams at high elevations more or less timber is met with, the varieties being principally jack pine (*Pinus Murrayuna*), white spruce, aspeu, and baisam poplar. The spruce in some cesses is large enough for lumber, and a few mills are now engaged in manufacturing from limits in this reserve. Two forest fire rangers are employed when required.

ROCKY MOUNTAINS PARK,

Reference was made in last year's report to the necessity of guarding the park, and on May the 1st, of this year, Mr. W. A. Hwester was appointed as forest ranger under the direction of the Park Superintendent. His territory, however, is not confined to the park limits, but extends along the Canadian Pacific Railway from the summit of the Rockies east to the paritie. His is also expected to see to the proper observance of the park regulations regarding the preservation of fish and game. Instructions have recently been given for the building of a fire guard which will cut of the the tritory embraced in the lambering operations of the Eau Claire Company from that portion of the park upon which buildings and other improvements have been made and which

will every much lessen the danger from fire in this quarter. This park is yearly becoming better known to and appreciated by the travelling public. As a nutional resort it well deserves to be regarded with pride by the Cannahian people. It would be difficult to choose another place that combines so many advantages as Banf. The mountain seenery is unsurgassed; the lakes, rivers and small mountain streams, all deriving their waters from the glaciers, are as clear as crystal; while the hot springs aff-ord the most delightful batching, and the curative ropervises of the water attract invalids from all parts of the country. It would be well to extend the limits of the park to methode the whole of the upper watershed of the Bow river. This is a matter that has been frequently referred to in former reports as very desirable for several reasons. It is, for instance, impossible successfully to enforce fishing regulations where these regulations apply to only a small part of a stream beyond which no supervision is exercised. Tho same will apply to game. Where a tractivery is very limited in extent, and the game is not confined therein, the shooting done outside the limits is very little less injurious than if done within the territory.

THE BAILWAY BELT IN BRITISH COLUMBIA.

This consists of a territory about 500 miles in length by 400 in wildh, being twenty miles on each side of the main line of the Canadian Parifiel Kaliway in Diritch (Johnsbia, It contains a large quantity of valuable timber. The varieties of greatest value are the doughas fit (*Pseudolsaga Douglasii*), the western white pine (*Pinus monitesia*), the western white colar (*Picea alba*), the Menzies spruce (*Picea Sictemess*), the white fit (*Lives ambilie*), the western hemlock (*Tsuga Mertensiana*) and the yellow pine (*Pinus ponderson*).

Reference has already been made to the forces fires recently so prevalent on the Pacfic slope and the exertions that this department is making to preserve the timber under its control in this belt. During the past two months six forces tire ranges; have been employed under Mr. James Learny, the Crown Timber Agent for the district. II, A. Eastuma, of New Westminster, is employed north of the Fraser river in the New Westminater district. John Bull looks after the territory in the neighborized of Abbasis ford, south of the Fraser river. John McUec's territory is in the Kambago, district. To G. W. McLead, of Salmon Arm, is assigned the timber district areal during lakes. To A. W. Relead, of Salmon Arm, is assigned the timber district around the Slewang lakes. To Alex, McRae is assigned the New MCU, and the Slewang lakes. To Alex, McRae is assigned the railway between the summits of the Selkirk and Rocky Mountains.

TREE PLANTING ON THE PLAINS.

Ever since the inauguration of the forestry branch it has been recognized that the complement to the preservation of the forests in these districts where trees grew naturally was the propagation of them, at least to a limited extent, in those parts of the country which were entirely devoid of tree growth; that preservation and propagation were equally worthy of the active attention of the office.

Exception has been taken to the policy of assisting the settlers on the open prairie in the growth and entityation of shelter belts and forest planations. Is the government of the state exceeding its functions in giving instructions to the settlers equarding tree entures in the first place, or secondly, in furnishing them with assets or seeking trees with which to plant limited areas on their branesteads? In considering these questions many phases of the subject present themselves. As regards, the groups of instruction on the subject, it has long been recognized in a duty in all branch the groups tries to aid in the discentination of knowledge in all subjects by which the prople would be benefited. Grants to schools, uncettained instruction of the group of the open planation of the pople of the output of the solution of an anagricultural societies, farmers' institutes, and others to numerous to maximum an annually made, the object being the education of the pople of the own try in the various.

VIII

pursuits of life in which they are engaged. Now, if it is wise to expend money in instructing the people in the growing of grain or grasses, which can only be of benefit to the individual who grows the same, surely it cannot be contended that it is unwise to do so in the growing of trees which in addition to the benefits they confer on the owner or occupant of the land on which they grow are beneficial in various ways to the whole community. Then, as to furnishing seeds or other plant material for those who agree to set apart a small portion of their land for the growing of trees, and to plant and keep the same in a proper state of cultivation, it is surely not asking much that they be supplied with proper material for planting these areas. Every one who has travelled through the prairie in the winter season knows the change in temperature experienced as he approaches the shelter of even a small bluff of timber along the roadside. There are other reasons why the Dominion government is warranted in expending public money in the territory outside the limits of the older provinces that do not apply with respect to the latter, owing to the fact that in the older provinces the public domain is owned by these provinces and the land and timber are sources of revenue for them, whereas, any revenue derived from the lands or timber of the North-west goes into the Dominion exchequer. These provinces recognize this and are beginning to move in the direction of conserving the timber which they possess and to take measures for propagating the growth of trees within their own territory, and similarly the Dominion is obviously acting within its legitimate sphere in spending a portion of its revenue in aiding in the growth of a limited number of trees which will do more than can be done by any other known agency in transforming the bleak plains of the west from the uninviting aspect which they present in their natural state and tend to make the country more attractive to the immigrants which it is doing so much to procure. Nearly every country of Europe has long given special attention to forestry matters, and even Russia with its vast territory has in recent years inaugurated a system of afforestation. In North America, both the United States and Canada have been decidedly slow in moving in this matter. The United States, however, are now alive to the necessity of giving greater attention to the subject, and within the past year the federal government at Washington has trebled its appropriation for the encouragement of forestry, and has raised the office to a bureau, and one of the principal features of its work is the encouragement of tree growth on the homesteads of the prairie settlers. Various attempts have been made, both here and in the United States, within recent years to encourage the prairie settlers to grow trees. One of these was what was known as the Forest Trees Culture Claims, by which a certain amount of land was granted by the government to the settler who planted a certain area with trees. This system in both countries was not found to be effective, and the reasons are apparent. The trees were planted, in many cases, without regard to proper preparation of the soil. In other cases the varieties chosen were unsuited to the soil or climate. Again, too frequently little attention was given to the care after planting. In most cases the object of those who planted them was to earn a certain portion of land, and having planted the required arca they demanded their land for doing so, and when the trees failed to grow they could always assign reasons for the failure to conditions over which they had no control, and it was difficult to disprove their contention. The result was that they usually received their land, but in few cases was the object of granting it attained.

In devising a system for our North-west it was obvious that we would have to adopt one suited to the conditions prevailing there. It would be an easy matter to copy any one of the European systems, such as that of Prance, Belgium or Germany, but to do this and depect it to succeed in our North-west where the elimatic conditions are so dissimilar and where the governmental machinery is so different would be about as whise as it would be to import all the trees of those countries and expect them to thrive under such altered conditions as prevail there. As was truly said by an eminent forester, 'We can no more adopt German methods than Chinese methods.' Though we can learn very much in the details of cultivation from these countries when we come to framing a system for adoption here we have to work out one of our own, taking into

account not only the diversified conditions prevailing in a country of vast extent, and making our system distible enough to overtake these, but also to adapt it to the convenience as far as possible of the people to whose exertions we have largely to look for making it successful. The system adopted is, as will be seen from the outling given hereafter, one of co-operation with the settlers. In fact this seems the only way in which it would be wise to proceed. To attempt tree culture in advance of the agricultural development of the country would certainly prove a failure. As has been truly said by an American writer, 'Wherever large areas have been brought under cultivation, tree culture has been more successful thun before the advector the plough.'

For several years the experimental farms at Brandon and Indian Head have been doing excellent work in experimentation, and the results of their labours furnish most valuable object lessons and demonstrate beyond duabt that a considerable variety of forest trees can be successfully grown in the district where these farms are located. They have also distributed to the settlers a large quantity of tree seeds, scedlings and exittings, but it was impossible for those in charge of the farms to exercise any system of supervision over those receiving the plant material, and it is well known that in many cases the seed and nursery stock scar out in excellent condition were planted in soil unsuited to the varieties sent, and more frequently the land had not been brought into a fit state of cultivation before planting, and even where these conditions were filled it was too often the case that insufficient attention was given after planting. It will be seen that the system adopted endexours to overcome these obstacles.

The following circular, which has been widely distributed in the prairie districts, sets forth the system adopted by the department. It is in some respect similar to that followed by the federal government of the United States, but differs from it in many important particulars.

DEPARTMENT OF THE INTERIOR, CANADA-FORESTRY BRANCH.

GOVERNMENT CO-OPERATION IN FOREST TREE PLANTING.

The Forestry Branch of the Department of the Interior is prepared, as far as the means at its disposal will permit, to assist farmers and others in the prairie sections of Manitoba and the North-west Territories in the growing of forest plantations and shalter-bells.

The system adopted may be stated as follows :---

1. It is proposed that any owner of land wishing to avail himself of the co-operation of the government in the planting and cultivation of a permanent forcet plantation or shelter-helt shall make application to the Forestry Branch at Ottawa, stating the number of the lot on which the plantation is proposed to be made, the nature of the soil and how cultivated, the nearest railway station and distance thereto and his post office address.

2. On receipt of this application an agent of the department will be instructed to visit and examine the hand, and if he is satisfield that trees can be successfully grown thereon he will see to the execution by the applicant of a certain form of agreement will be not been authorized by the department, setting forth the conditions on which the government proposes to assist in this work. The agent will also confer with the applicant while on the ground and arrange for the location of the said forest plantation or shelter-belt, advising the applicant as to the preparation of the said forest plantation or shelter-belt, advising the applicant main and other said forest plantation by while prepare a plan or sketch for the use of the applicant, showing how the trees are to be planted.

3. By the agreement the applicant contracts to set apart and millione a certain area of land for a permanent forest plantation or shelter-belt and agrees that the trees to be grown thereon shall not at any time in the future be even off or removed so as to injure the plantation, except with the advice or consent of the department, but it is

VIII

understood that the wood and other products of the said plantation or shelter-helts shall belong to the owner of the property. It is, however, provided that the department shall have the right to take the cettings and the seedling trees that may be growing up on the plantation, and tree seeds, when these are not required by the owner to extend his own plantation. It is also provided that the applicant shall properly prepare the soil and plant and care for the trees after planting in accordance with the directions of the agent of the department. This will include his providing protection against animals by fencing or otherwise, and against fire by fire guards or other effective means.

4. The department, as far as the means placed at its disposal for the purpose will permit, will furnish seed or other plant material for planting the said forest plantation or shelter-beit.

5. The department agrees to render the services above specified wholly without charge.

It will be observed that this system is distinctly co-operative in character. The department furnishes officers to give expert advice and to see to the carrying out of the terms of the agreement, and in addition to this assists the owner of land by supplying him with seeds, cuttings or young trees; while on the other hand, the owner is required permanently to set apart a small portion of his land for tree growth and to do all the actual work of preparation and cultivation of the land so set apart, to plant the seed, trees or cuttings and to take proper care of the young growth after planting, necercling to the directions of the said agreent of the deratment.

Although the department desires to meet the wishes of the settlers as far as possible, it must be understood that, owing to the difficulty sometimes experienced in obtaining seeds or other plant material, the government will not guarantee to furnish any specific quantity, and as in many localities tree seeds, young trees and eutitings can be obtained from natural woods in the vicinity, it is advisable for those contemplating planting to provide themselves in this way as far as possible.

Those desiring the assistance of the government as here outlined should apply before the first of September in each year, so as to enable the department to provide ahead for the supply of nursery stock for spring planting and to allow time for the agent to visit the land. Applications which are not received by that time are likely to be left over until the following year.

The department will also be prepared to co-operate with municipal corporations, railway companies and other corporate land holders on lines similar to those above stated for the purpose of assisting them in growing trees along the public highways, railway tracks, and in streets and parks in eities, towns and villages.

> E. STEWART, Superintendent of Forestry.

The following is the form of agreement referred to in the circular :---

DEPARTMENT OF THE INTERIOR.

TREE PLANTING AGREEMENT.

OTTAWA,

190

The Department of the Interior of Canada and

, of

, mutually agree as follows :---

 The Department of the Interior shall, as far as the means at its disposal for the purpose will permit, assist in the growing of a forest plantation, wood-lot, shelterbelt or wind-break by directing through an agent of the department as to preparation REPORT OF THE SUPERINTENDENT OF FORESTRY

SESSIONAL PAPER No. 25

of the soil, varieties to plant and manner of planting and as to proper care after plant-

situated and described as follows :---

2. The said department will also endeavour to furnish tree seeds, seedling trees or cuttings for the planting of the aforesand area, or in case the quantity of plant material part of it as the supply will allow.

4. The said apart the above named area of hand for a permanent forest plantation, wood-bot, shelterbelt or wind-break, and agrees that the trees to be grown thereon shall not at any time

provided that the department shall have the right to take the cuttings and seedling

shall properly prepare the soil and plant and care for the trees after planting and do all the actual work in connection with the said forest plantation, wood-lot, shelter-belt will include his providing protection against animals by fencing or otherwise, and

Post Office of Owner

As the plan is one of co-operation between the government and the settlers, it was considered wise that the latter should be consulted in advance reg rding it. With this to Manitoba and the North-west, and had the opportunity of attending about twenty meetings in the country where an outline of the scheme was hild before the people and ing active measures to carry it into effect.

preparations for next spring's planting, but it was found in some cases that the applitiens. The reports of Mr. Ross and Mr. Stevenson give further information regard-

the co-operation of the government is 625. Their farms are being inspected this sea-

place for raising nursery stock for this carpose. Owing to the only spring menths being very dry, the quantity growing is not as large as desired, and it will probably be

on his part agrees to set

necessary to purchase some elsewhere. Means have been taken, however, to gather a large quantity of tree seeds which will help to meet the demands that will be made. Forest nurseries where seedling trees would be raised and stored for early delivery could be carried on at comparatively small cost and this matter should receive attention in the near future. In the meantime, as stated above, the work is being done at the experimental farms. Both Mr. Bedford, the Superintendent of the Brandon farm, and Mr. McKay, Superintendent of the one at Indian Head, have very kindly added to their other duties by giving attention to this matter, and this branch is very much indebted not only to these gentlemen but to the Minister of Agriculture and to Dr. Saunders, the director of these farms, for their hearty co-operation and assistance in the efforts that are being made in this connection.

THE CANADIAN FORESTRY ASSOCIATION.

The report of the second anual meeting of this association has just appeared. It contains many valuable papers with discussions thereon presented in a very attractive form. The association is now firmly established, and though it is only a year and a half since its organization, it now embodies in its membership a good list of leading citizens from all parts of the Dominion. The columns under its control in Rod and Gun in Canada, the official organ of the association, are ably edited by Mr. R. H. Campbell, the assistant secretary, and afford an excellent means for the interchange of thought among its members. The meeting which was held in Ottawa in March last was well attended by representative men from all parts of the country. One noticeable feature was the lively interest taken in the discussions by many of our leading lumbermen as well as by those engaged in scientific pursuits. It is hoped that the association will be active in giving to the public its opinions by resolution or otherwise regarding any matters pertaining to forestry in this country. The influence of such a body of men on public opinion with reference to correct forestry methods in Canada must necessarily be of benefit to the people of every section of the Dominion and fully justifies the department for the assistance it has given in furthering the interests of the organization.

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

> E. STEWART, Superintendent of Forestry.

APPENDIX No. 1 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF THE ASSISTANT SUPERINTENDENT, NORMAN M. ROSS, B.S.A.

INDIAN HEAD, ASSA., September 16, 1901.

E. STEWART, Esq., Superintendent of Forestry,

Ottawa.

Sig,-I have the honur to submit herewith a report of the work done by me, under your direction, since I entered the Forestry Branch.

I commenced work in the Forestry Branch on March 14, 1901, and up to the middle of April 1 remained in your office at Ottawa engaged in work principally in connection with the seleme of co-operative tree planting in the west, which is being brought into operation for the first time this season. I left Ottawa for the west on April 17, and since that date 1 have been in the North-west Territories, visiting the farms of applicants for tree planting and arranging for the collection of seed and nursery stock for distribution next spring. I also prepared an exhibit of native woods, seedlings, seed, $\&_{e_1}$ to be shown at the summer fairs at Brandon and Winnipez.

Applications for Tree Planting.—This spring I had on my list only fifteen names of these who desired to avail themselves of the co-operation of this branch in tree planting. The applicants were, however, scattered over the North-west from Calgary to Mossomin, and owing to the bad state of the roads it was some time before I could get to all of them. Of the fifteen applicants three have their farms in Alberta and twelve in Assiniboia. Only eleven out of the fifteen had land properly prepared for planting trees. The number of trees distributed amongs these was 35,000. These consisted chiefly of Manitoba maple (box elder) and Dakota cottonwood, with a small proportion of native green sah and elm.

When visiting applicants 1 inspect the ground which they wish to plant up, to see that it is in a suitable condition for growing trees, and also to not which warieties are best suited to the soil and locality, and, where necessary, make a rough sketch or plan to show the manner in which the trees are to be planted out.

The inspection of the ground before allowing trees to be set out is, I think, one of the most important foatures in the present scheme. At least 50 per cent of the settlers visited have, at one time or another, attempted to grow trees around their buildings, and in most cases the lack of proper preparation of the soil in the first place is to blame for the non-success attending their efforts. Many applicants with whom I have had correspondence before visiting their farms have stated in their letters that they have land well prepared for tree planting, and on visiting their farms I have often found that the soil is very far from being in a suitable condition for the growth. The prevailing idea is that trees should grow any where so long as their roots are in the applicants have any knowledge as to the details of planting and setting out trees the the best advantage, and a few mutuate' conversion with these men is makel more instrutive to them than the reading of circulars to which many do not seem to pay much attention.

So far I have had the opportunity of seeing only three of the plantations at out this spring. Two of these are very good indeed, the trees being healthy and strong and well looked after. In the third case some of the trees were plant rather too shallow, and owing to the extreme heat we had here in the spring a good many of the trees died.

13

viii

Of the different kinds of trees distributed the elm seems to stand transplanting rather better than the other varieties, although they do not make such a quick growth from the start as some of the others. Of the trees I have seen planted this spring, the following are the percentages living this fall.—Elm, 85 sere cert; maple, 85 per cert; cottonwood, 71 per cent. The reason that so many of the cottonwoods failed to strike root is no doubt due to the fact that, owing to delay during shipment from Dakota and more delay on account of the customs, many of the bundles of young seedlings became beated and musy before arriving at the final destination.

The young trees distributed this spring were obtained from H. L. Patmore at Brandon.

The number of applications for next season's distribution is increasing very rapidly, reaching up to the present 183, distributed over the west as follows :- Assiniboia, 135; Saskatchewan, 3; Alberta, 45. Some of these applicants I have already visited this fall, and the greater number have land well prepared for next spring's planting. In some cases the farms and buildings of applicants were so well sheltered by natural bluffs of native poplar that more trees were not necessary, the trees being desired chiefly for ornament. In such cases I thought it advisable not to promise any trees for next spring, as the stock we shall have available for distribution is rather limited and should be divided amongst those really needing trees. Later on when we can get our nurseries well stocked it may be advisable to encourage these men to plant out blocks with a view to obtaining a supply of fuel and fencing material in the future. Nearly all those applying for trees next spring state that they intend gradually to increase the area devoted to tree growing year by year. In such cases the applicants may very easily themselves raise every year a number of such easily grown trees as maple and ash, if they are supplied with the seed; and in this way the demand upon this branch for nursery stock will be greatly lessened. It will be necessary to distribute to such applicants the seedlings of those trees only which it is more difficult to raise and which the ordinary farmer cannot afford to grow from seed.

Raising of Nursery Stock—Immediately after my arrival in the west this spring I visited Mr. Bedford, of the Experimental Farm, at Brandon, and Mr. McKay, of the Experimental Farm, at Indian Head, and, as instructed by you, made arrangements with them for the growing of young seeclings at both places.

At Indian Head, Mr. McKay placed about four acres at our disposal which was planted up principally with Manitoba maple (box elder), green ash, and elm seed, also eutimns of willow and Russian poplar. The poplar cuttings have not proved a success this year as, owing to a lack of rain and the great heat following directly after setting out, they all direid up before they had a chance to strike root.

At Brandon, Mr. Bedford sowed about three acres in maple seed, with only fair results; the great heat about the beginning of June scorching up thousands of the young seedlings soon after they appeared above the ground.

This fall at Indian Head, Mr. Lang collected and sowed some native birch seed. So far the experimental farms have not been able to raise birch from seed, but as it is such a good tree throughout the west it will be a great advantage if we can manage to grow it in the nursery.

As the scheme develops it will be almost necessary to have nursery stations at different points along the lines to that the young plants may be raised under elinatic conditions as nearly as possible similar to those they will have to face when planted out permanently. There are also trees which will grow well in some parts of the west, and will not thrive at all in others. For instance, in eastern Manitoha the basswood and scrub oke grow to a large size, and the Ontario maple secons hadvy as far east as Brandon, as I have seen specimens growing at Portage la Prairie, Nelson and Brandon. A nursery situated in eastern Manitoha would raise these trees suitable to that district better than they could be raised further west, and although all the trees which will grow in the west could be readily raised in the eastern part the groat change of climate, and more especially of elevation from east to west, would in all probability prove fatal to a large percentage of the tock.

The Scotch pine, white spruce and tamarack are all very hardy throughout the west, and as they are valuable trees their growth should be encouraged; they need, however, a little more careful handling in planting than do the ordinary broad leaf varieties.

Collection of Seeds .- Owing to the increasing number of applications a very large supply of seed will be necessary both for distribution and for our own use. Unfortunately the native maple, which is the best tree we have for proneer planting, has this year in the western part of Manitoba and Assiniboia been attacked by some disease which has made all the seed in the affected districts quite useless. To all appearance the seed is found to be quite brown and watery. The trees were very badly affected this season with a small green aphis, and whether these insects are the indirect cause of the seed going bad or not I do not know but fancy they have something to do with it, us those trees having healthy seed are free from the aphis. At Oak Lake, Manitoba, the maple seed is fairly good, and I made arrangements to get as large a supply as possible pieked there. The green ash is bearing a very heavy crop of excellent seed this year all over the west, and there will be no difficulty in getting any quancones of the native white spruce growing on the sand hills south of Sewell, Manitoba, The crop of cones is rather heavy this year and the seed very good. Ehn seed was picked the first week in June and sown immediately. The young seedlings eame up well, and have made a good growth this season. A small quantity of birch seed was wicked in August.

Forestry Exhibit—Towards the end of June I received instructions to get up an exhibit to be shown at the summer fairs in Brandon and Winnipeg held at the end of July and beginning of August. Oving to the short time given for the preparation of the exhibit the collecting of mative wook was necessarily done hurricelly, and only average specimens were obtained. Some varieties we had not time to preserve at all. The wool being green, it was not possible to finish it off at all to show the grain. The exhibit consisted of sections of as many of the native wools as we could collect in the time, and alongside of these were shown sections of the same and other introduced varicies grown under cultivation. affording a good comparison as to the rates of growth under natural and artificial conditions. The varieties of native wools shown were: Elm, serue back, basswood, white spruce, iron wood, green ash, birch (white), nature white poplar, Manitoba maple, balm of gilead, and western black willow. Most of these were cut near Nelson, in southern Manitoba, and I dw in the Turthe nountains. The spruce came from the Riding mountains. Needlings, one, two and three years [d], of the varieties of trees best united for planting in this sourtry were shown growing nu boxs. Seed and conces were put up in glass jars, and the leaves of the principal trees were pressed and mounted on sheets. A series of onlarged photographet them in Manitok and the Territories gave an illustration of what had already beeu done in tree planting in this country.

I should like to take this opportunity to thank Mr. Bedford, Superintendent of the Experimental Farm at Brandon, and Mr. McKay, Superintendent of the Experimental Farm at Indian Head, for their kindness in helping me in many ways with my work.

I am, sir, your obedient servant,

NORMAN M. ROSS, Assistant Sup rot r at of F rotri.

vIII

APPENDIX No. 2 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF THE GOVERNMENT AGENT FOR TREE PLANTING IN MANITOBA, MR. A. P. STEVENSON.

Souris, Man., September 17, 1901.

E. STEWART, Esq.,

Dominion Superintendent of Forestry, Ottawa.

SIB,-I have the honour to submit the following brief report on the work in which 1 have been engaged during the past summer as forestry agent in connection will the work carried on in this province by the Forestry Branch of the Department of the Interior.

In accordance with instructions received from you, on April 16, 1901, I proceeded to Winnipeg, and there met your assistant superintendent, Mr. Ross. After consulting together as to the management of the work we went to Brandon and arranged with Mr. Patmore for the furnishing of plant material. Afterwards we began the inspecting of land prepared by applicants for trees. These were scattered widely over the province, ranging from Morden to Melita, Reston, Virden, Brandon, Baldur and Morris. Thirty-six parties were furnished with trees and three were refused on account of the soil not being in a fit state for trees. In all 23,800 were planted in Manitoba during last spring under the co-operative scheme of the Forestry Branch. The varieties planted consisted largely of the ashleaved maple, cottonwood, elm and green ash. Recent inspection of the greater number of these plantations shows the following results :- Percentage of trees planted now alive: Maple (seedlings), 85 per cent; cottonwood (cuttings) 40 per cent; elm (seedlings) 50 per cent; green ash (seedlings) 65 per cent; care of trees fairly good; growth this season extra good. The poor showing made by the cottonwood arises from their rather unhealthy state when received from the nursery. These trees were imported in the spring. I would suggest that in future importations be made in the fall should it be necessary to import.

At the close of the planting season arrangements were made to visit applicants who were desirous of availing themselves of the benefits of the scheme in the spring of 1902 and wished advice as to the proper laying out and preparation of the soil. By the 24th of June 76 farms had been inspected, extending from Morris to the western boundary of the province at Pearson, and up the Souris valley to Brandon, where I met the assistant superintendent, and arrangements were made for the collection of material for a Dominion forestry exhibit at Brandon and Winnipeg fairs.

On July 5 I began addressing a series of Farmers' Institute meetings at the following places: MacGregor, Austin, Carberry, Pipestone, Swan Lake, Bolmont, Baldur and Blyth. On the whole the meetings were fairly well attended. The subjects under discussion at all the meetings were tree planting and the proper preparation of the soil previous to planting, outlining the Dominion government co-operative scheme and distributing circulars. These meetings appeared to be anywred. At the close of the series of a structure of the series of the series of the series of Farmers' Institute meetings assistance was given in the distribution of circulars and advice in tree planting to visitors at the Brandon and Winnipe fairs, where a forestry exhibit was shown which attracted great attention. After this I again took up the work of inspecting the farms and advising applicants for planting in 1902 and getting agreements made out and signed. Up to the present time 91 farms of intending planters have been examined and the necessary agreements made out.

16

REPORT OF THE SUPERINTENDENT OF FORESTRY

SESSIONAL PAPER No. 25

viii

With reference to the work as a whole and the general view taken of it by our people, I note that the scheme is universally looked upon with the greatest favour. The people throughout all sections of the province approve and heartily endorse it, and only regret it was not brought into existence sooner. One thing noticeable among our people is their growing anxiety for trees. New houses and new barns are being built in all parts of the province to replace those first put up, and trees are wanted to shelter and adorn these permanent buildings; hence the demand for your agent to advise regarding the varieties to grow, the proper cultivation and the laying out of the grounds for trees around these new buildings on farms where not a single tree was ever planted. It is noticed that in a good many cases the advice as to laving out and proper management of windbreaks is as much appreciated as the giving of the plant material. Where planting has already been done the mistake has been made in the majority of cases of planting too close to the buildings. It is difficult sometimes to convince parties of the future dimensions of the trees and the advantage of having the trees at a proper distance in order to avoid deep snowdrifts around the buildings in winter. In all advice given this point is never lost sight of.

As to the future of the scheme. It will without doubt grow to large dimensions and it becomes better known. Even at the present time but a hazy idea of the scheme prevails with the majority of our prairie farmers. There are already 423 names on the list of applicants, and the number is increasing daily. In a short time it will tax all the powers of the Forestry Fanch to meet the demanda upon it.

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

> > A. P. STEVENSON.

APPENDIX No. 3 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF HOMESTEAD INSPECTOR J. W. THOMPSON.

RIDING MOUNTAIN TIMBER RESERVE, MINNEDOSA, September 11, 1901.

Mr. E. STEWART,

Superintendent of Forestry, Ottawa.

Sum,—In connection with the work of the forest fire rangers appointed last spring, I beg to report that in this district the result has been very satisfactory. We had one fire which did a little damage on Clearwater creek, but outside of this I do not know of an acre of timber being damaged by fire on the timber reserve in my territory. Before the appointment of rangers a large quantity of timber was destroyed by fire each spring and fall. By keeping warning notices posted along trails and at stopping places and distributing copies of the Fire Act among the settlers, and by making frequent trips along the edge of the timber, the fire rangers are doing a great deal toward educating the poople to respect the law. A great many see the necessity for protecting the timber, while others are deterred from setting out fire by the fear of punishment. In a number of cases the fire rangers were instrumental in having fires estimguished that were outside of but threatening the reserve. Owing to the very rank growth we have had this season, I am afraid we will have trouble with free this fall, and I am urging extra vigitlance on the part of our fire rangers, as 'an ounce of prevention is worth a pound of cure.'

Your obedient servant,

JOHN W. THOMPSON, Homestead Inspector.

APPENDIX No. 4 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF MR. C. A. WALKINSHAW, FOREST RANGER.

TURTLE MOUNTAIN TIMBER RESERVE, BOISSEVAIN, October 7, 1901.

E. STEWART, Esq.,

Superintendent of Forestry, Ottawa.

SIR,-I take great pleasure in reporting to you the success of our efforts this year in preventing fire from spreading in the Turtle Mountain timber reserve. During the months of April and May we found and extinguished fires on many occasions, and I cannot emphasize too strongly the necessity of keeping a patrol on the international boundary line, as fires are set out there by the settlers, and too frequently are allowed to spread. In this work I found my assistants invaluable. The fire break or guard, 100 feet wide, that runs from the northerly boundary of the reserve in a southerly direction to the international boundary, and which is seven miles in length, including Long lake, which is two miles long, has all been earefully cleared of stumps and underbrushed and ploughed, with the exception of three-quarters of a mile between Long lake and Lake Dromier, so that it is almost impossible for a fire that can run in the bush to cross it. This I think effectually protects the reserve from any fire running from the west. The growth of the young trees this season has been a great surprise to me. Of course this has been a favourable year, owing, no doubt, to the great amount of rain that fell. I confidently believe that with anything like favourable weather in the future, providing the precautions for keeping out the fire are maintained, it will not be many years till we have another forest in the Turtle Mountain.

I find there is a growing interest taken in the protection of the bush by the settlers.

I am, sir, your obedient servant,

C. A. WALKINSHAW, Forest Ranger. 19

vili

APPENDIX No. 5 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF MR. THOS. YOUNG, HOMESTEAD INSPECTOR AND FOREST RANGER.

RIDING MOUNTAIN TIMBER RESERVE, DAUPHIN, October 7, 1901.

E. Stewart, Esq.,

Superintendent of Forestry, Ottawa,

Sun,—I have the honour to report that I have had three forest fire rangers under my supervision during the past season. The district over which they ranged extends along the line of the Canadian Northern Railway from McCreary Station to the present terminus, Erwood, and their efforts were chiefly directed to the protection of the timber on and along the Riding, Duck and Porcupine mountains. Those rangers went on duty early in May, and remained at work until the early part of June, at which date there was a sufficient rainfall to preven the running of forest fires. Their duties during the earlier part of May were confined to the posting of notices, cautioning the settlers of the district against letting fires run, and the distribution of copies of the Fire Act. This work was necessary on account of the district being nuorganized, and being, on the whole, a seruh and bush country, which is being settled by a great number of forest fires.

Towards the latter part of May forest fires broke out along the north slope of the Ridding mountains near Makinak, and another north and west of Ethelbert, on the east alope of the Duck Mountains. Ranger Porterield, with a number of men, did good work in controlling the fire along the Riding Mountain, and in keeping if from spreading into valuable timber, but Ranger McDonald and his helpers found it impossible to accomplish much in the Duck mountains on account of the quantities of timber which had been Ridled by previous fires and awhich burned ficeoly. In the Swan river district there were numerous local fires in the newly-settled localities, but Ranger Caverly reported no destructive fires. On account of the wooded nature of this district and the difficulty experienced in travelling over such a large area, I found that three rangers were not sufficient to protect properly the timber, especially in unorganized districts like the greater portion of Dauphin. A sufficient number of rangers, with the cooperation of the provincial and municipal authorities, will b necessary to keepunder control settlers who are clearing their holdings, while travellers and huntersmust be more closely authed.

I am, sir, your obedient servant,

THOMAS YOUNG, Homestead Inspector.

APPENDIX No. 6 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF CROWN TIMBER AGENT AT NEW WESTMINSTER.

CROWN TIMBER OFFICE,

NEW WESTMINSTER, B.C., October 9, 1901.

E. STEWART, Esq.,

Superintendent of Forestry, Ottawa.

Sig.-I beg to submit herewith a short report of what has been done under my supervision respecting the fire protection for this season, and the results of the working of the system of fire wardency.

As you are aware, seven wardens were appointed for the railway belt in the province of British Columbia, and six were extively employed in their various districts an locking after fires. The seventh, Mr. John D. Paris, was not able to give the amount of time required of him during this season, and no other man having been appointed in his place, I took upon myself the duty of looking after Mr. Paris' district, during the time he was of duty.

In Mr. Paris' district two extensive fires occurred on worked-out timber berths, one of which, on Berh T, was easily extinguished by the prompt action of Fire Wardan Paris before any serious damage was done, but a considerable quantity of useful timber was destroyed, and the fire is attributable, from all the information I can gather, to sparks from a locomotive of the Great Northern Railroad. However, we have no clear proof of this.

Another fire occurred on the Semiahmoo trail, which passes through timber berths Q and B, but occurred in the worked-out portion of the limit, therefore not destroying any valuable timber. This fire was set out by tramps. I may say in this connection that the fire fought at Semiahmoo trail was not allowed to cross the trail, and, therefore, did not do any damage to merchantable timber or the unworked portion of the timber berth. You having personally visited the scene of both fires can bear out this fact.

The fires in the Chilliwack district, which was under the supervision of Mr. Ball, were mainly caused by settlers in the actual clearing of land, and were very well looked after and did not do any damage, excepting the fire at Slesse Creek, of which I give you an extract from Mr. Ball's report:-

'I beg to report having returned from an extended visit of the districts of Mt. Baker and Cultus valley. I very strictly investigated the burning of Slesse Crede bridge, which crosses the Chilliwack river about 14 miles up from Yedder bridge, and I have no hesitancy in saying it was entirely due to carelessness on the part of the person who set fire to some alsahing on the south side of the river and then left it; it has not done very much damage to the big timbers, except causing considerable annoyance by destroying the trail by faillen timbers. I travelled south from the bridge two miles and the fire nearly all burned out, and the rainy day which followed last Thursday happily would quench it all, I think. I tried to find out who fired the slashing, and, from information I could gather, it was a packer who did it in passing to Mt. Baker mines, but the stringers of the bridge wore not burnt beyond using gain."

You will see, by this extract from the report, that very little damage was done to the large timber. The fire was caused by prospectors on their way to Mount Baker, and while mentioning this fact, I would respectfully suggest that the government of British Columbia be requested to make the laws regarding the indiscriminate setting out of fires by prospectors more stringent, and that a term of imprisonment be added

vlit

in default of payment of fine, as it is impossible to collect a fine from tramps, who are utterly destitute.

A fire occurred about August 25 on the Similkameen trail near Hope. This fire, while not destroying any large timber, burnt a very considerable quantity of young timber, which was springing up in that district. This country has been burnt over several times, the last big fire occurring there about six years ago, in which a very goonsiderable quantity of timber was destroyed. With regard to this fire, I quote you the following extract from Mr. Eastman's report:-

'August 28-30. Travelled to Hope, crossing the Fraser. Found fire on the Similkameen trail at the "Mule Shoe Bend," left bank of the Coguhalla, this fire was burning among young timber that will be of great value in the future. I got the assistance of E. Purnaby and we succeeded in confining it by back firing and trenching, and cutting down the burning brush and putting out the fires in them. I left Purnaby watching this fire after we got it surrounded, and took two men, Ryder and Beers, up the trail to "7 Mile" on the Nicolum. I found here a very heavy fire burning on the mountain side. This country has been burned over many times. The last fire I should judge would be about six years ago. The large timber on this mountain, besides being mostly fire killed, is of no commercial value. The mountain is about 4,000 feet in height and very precipitous. I did not attempt to stop this fire, it being impossible to get near to it for falling trees and rocks rolling down. In any case the mountain is so precipitous that men could not get about readily or with safety. I succeeded in cutting the fire off to the south by back firing and trenching. The loss in the fire at Mule Shoe Bend is about three acres of fir and cedar, from 1 inch to 12 inches in diameter, burned over but not all destroyed. The larger trees being left will, I have no doubt, re-seed the ground. There is no commercial loss on the Nicolum. The mountain side will re-seed and grow up again. I employed Sam. Ryder and John Beers two days each. You will please to find their accounts with this. Ed. Purnaby is still watching the fire at Mule Shoe Bend until it is completely burned out. I will forward his time in due course. I could not find out what caused the fires, but surmise it to be packers or prospectors. The country is so dry here that a match carelessly thrown down would set the whole country ablaze.

I may also say that, from Ruby Creek to Lytton, along the line of the Canadian Pseific Railway fires had burnt amongst small brush and timber along the track, which could not have been set out other than by the locomotives, but fortunately did very little damage, as a rain coming on quenched them all, but I would ask that something be done to prevent this state of affairs with respect to sparks from locomotives.

Considerable fires occurred at Notch Hill, Eagle river, and on the Columbin river, north and south of Revelstoke, regarding which I inclose you a report from Mr. D. J. McDonald, the assistant Crown Timber Agent, which fairly describes the amount of work done and the work of the wardens with regard to these fires. I am making a trip over the upper country very shortly, and, if necessary, can furnish, from personal inspection, a supplementary report of the fires in question.

I may say that I consider the work done by the fire rangers during the past season to have been very efficacious, not only in putting out fires, but largely in preventing fires, as they impressed upon the settlers the necessity of being very careful in burning alsahings. Ac., and had it not been for the fire guardians, who looked after the fires thoroughly, a very large quantity of timber would have been destroyed, but I consider that more wardens should be appointed for nother season, and I would respectfully suggest that the number be increased by at least four, as I consider that it will pay to have them on.

In conclusion, I might add that the past season has been very dry, scarcely any rain having fallen from early in June until the end of September.

I am, sir, your obedient servant,

JAMES LEAMY, Crown Timber Agent.

viii

APPENDIX No. 7 TO THE REPORT OF THE SUPERINTENDENT OF FORESTRY.

REPORT OF ASSISTANT CROWN TIMBER AGENT AT KAMLOOPS.

Department of the Interior, Dominion Lands Office, Kamloops, B.C., October 5, 1901.

JAMES LEAMY, Esq., Crown Timber Agent, New Westminster, B.C.

Sim—I beg to report that fires in the Golden division of the Kamioors district, did not amount to anything on account of several rain storms east of the Schkirk mountains. In the Revelstoke division it was very different regarding rain, and it appeared at one time that the whole country was on fire, however, it did not turn out so bad as at first anticipated. The fires north and south of Revelstoke would have done, no doubt, a great amount of damage, had it not been for the men employed by the fire rangers, who fought the fire by way of cutting ditches through the times; and fire brakes through the timber; one ditch north of Revelstoke had to be cut almost two miles long to prevent the destruction of timber berth 73. The fires south of Revelstoke were kept under submission by much the same means as the fires north of that place.

The Clanwilliam fire was so fierce that nothing much could be done with it; however, it did not do much damage, more than destroy a small growth, which was of no commercial value on account of the location being very rough and precipitous.

The fires at Notch Hill and on the Eagle river were handled in much the same way as the Revelstoke fires, and gave a lot of trouble and work to prevent the mcrehantable timber from being burnt up.

I am unable to say at present the amount of merchantable timber destroyed, but from what I can gather the amount will be small. Of the origin of the firse that we had to contend with, 90 per cent are attributed to the negligence of the Canadian Pacifie Railway Company, in connection with their locomotives, which were not equipped in accordance with section 7 of the Fire Act, province of British Columbia. Of the balance of the fires 30 per cent have been started by prospectors and settlers.

I am, sir, your obedient servant,

D. J. McDONALD, Assistant Crown Timber Agent.

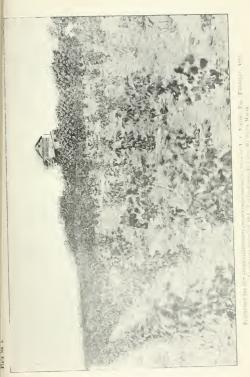
LIST OF PLATES ACCOMPANYING REPORT OF THE SUPENINTENDENT OF FORESTRY.

No	L Contraction of the second	PAGE
1	Plantation Set Out under Government Co-operative Scheme	27
3.	In Stanley Park, Vancouver, B.C.	29
8.	Arbutus or Madrona Tree	31
4	Dominion Forestry Exhibit at the Brandon Fair	. 33
5	In the Rocky Mountains, near Lake Louise	35
6	In the Cypress Hills in Western Assinibola	37
7	View of the Prairie, with Rocky Mountains in Distance	. 39

25

1

.





IN STANLEY PARK, VANOS ER, B.C.

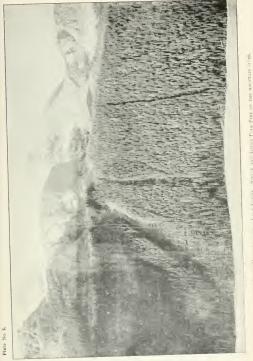


Arbites or Madrona Tree (Arbites Mexicos), is the formula of the definition Section $x_{\rm ev} = y_{\rm e}$

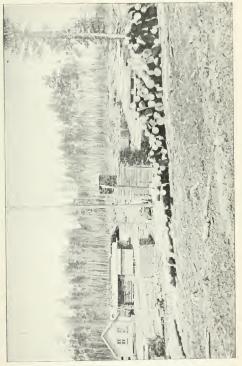
.....



OMINION FORESTRY EXHIBITAT THE BRANDON FAI











VEA OF HE VAMEWILL ROLE ROLE MENTINE IN FILE DISTANCE.



1-2 EDWARD VII. SESSIONAL PAPER No. 25

A 1902

PART IX.

YUKON TERRITORY



YUKON TERRITORY

REPORT OF THE COMMISSIONER.

DAWSON, Y.T., October 10, 1901.

Hon. CLIFFORD SIFTON,

Minister of the Interior.

SIR,-I have the honour to submit the annual report of the Yukon Territory for the year ending June 30, 1901.

It may be said with perfect confidence that the progress of the Yukon Territory during last year has been of a very satisfactory character. The evolution from an uncertain, unstable and excited mining camp to a steady, permanent and prosperous community has proceeded in a rapid and striking manner. Gold is still, as it probably will continue to be, as long as the Yukon lasts, the chief product of the country. Copper has been discovered over a considerable extent of territory, and there is reasonable hope that its mining and smelting will develop into an important industry. Profitable working of copper will depend upon many circumstances, and to some extent, on the continuance of the gold production, since this will insure permanent settlement of the country and aid in cheapening all the essentials required in producing copper. Coal has also been discovered, and is now being regularly supplied in Dawson and other parts of the territory. While the quality as yet is not of the highest, the coal is still a most valuable addition to the resources of the territory. The enormous quantity of wood regularly consumed in thawing ground and furnishing power in connection with mining operations have occasioned alarm lest the somewhat meagre supply would be too rapidly consumed. The present supply of coal seems to remove to a great extent the danger from the failure of wood, and the demand on wood will be still further reduced if the water supply can be applied in such a manner as to make more general the hydraulic method of mining. It is now well established by a number of examples that frozen gr und can be disintegrated by water alone. The general application of steam to thawing the ground has also largely reduced the quantity of wood consumed, as com-

With regard to the production of gold, I look with great confidence to its continuance for many years. The great requirement now is cheapening of transportation facilities. [Every reduction in freight rates, every reduction in the cost of living in the Yukon Territory makes possible the introduction and operation of a higher class of machinery and cheaper production of gold. At the present time ground that could use the worked at a profit a grear or two age can be successfully anisod. Each change that lessens the cost of production increases the area for profitable working. It is confidently anticipated that large areas which have already been mined to the full extent that they profitably could be at the time they were muned lander than existing conditions, can soon be wholly reworked at handsome profits. Transportation has been the serious obstacle to cheap furnished where there, fourly if guiting things into the country, but of moving them from one place in the country is another has been enermous. Many instances can be furnished where there, four, five another has been the

25-ix-11

cost paid for an article at Vancouver or Victoria has been paid for getting that article into position on some mining claim twenty or thirty miles from Dawson. The companies employed in freighting goods to Dawson went to large capital expenditure firmly convinced that they were taking great risks and under the impression that the life of their business would be very short, and that the only chance of getting any profit from their investments was by charging rates that would bring back such capital and profit within a very short period. That period has elapsed and much of the capital has been realized, and, I believe, these companies are now satisfied that their business is assured for many years and will act accordingly, both in their own interest and in the interest of the country. I firmly believe that a reduction of freights to what would be deemed reasonable rates in the other more expensive parts of the continent would result in such a volume of business as would benefit the companies and produce a development in this territory of the most extraordinary character. I have endeavoured to aid in the cheapening of transportation within the territory by providing for the expenditure of every available dollar upon the construction of a system of roads connecting all the important mining creeks with Dawson, which is the centre of supply for the territory. The road construction has been mapped out on a large scale with the view of having each year's operations tend towards completion of a general system calculated to meet to the fullest possible extent the wants of the people.

No one can have spent a season in Dawson without realizing the existence of unmistakable signs of permanency. Not only does a general air of prosperity and confidence pervade the whole business community, but the surest steps are being taken to insure a continuance of good times. When one finds men of as wide business expericnce as any on the continent, and hundreds of intelligent and competent mining men all over the gold producing districts bringing in boilers and machinery to such an extent that for months the streets are obstructed by them, and hastening to erect plants upon their claims; when steady, calculated business methods supersede the former makeshift ways; when mine owner after mine owner declares that already in sight is dust to occupy years in working, and when it is recognized that although Eldorados are not struck every day, or more than once in a life time, yet daily there are being disclosed enormous tracts of good paying ground; and when in addition there is every indication and prospect of early development of quartz mining, it is not difficult to find justification for the faith which is found here wherever one turns in the resources of the country. One stamp-mill has already been erected in Dawson, and another is in course of erection. These facts indicate the hopes created by recent quartz finds.

Under a conservative assessment made this year, land in Dawson was valued at 81,906,400 as compared with 81,07,330 late year. Improvements in the shape of buildings on land were valued at 82,342,850 as compared with 81,487,580 last year. Personal preperty was assessed this year at 85,346,000. It is not possible to compare this item with the former year, because the volume of business and not personal property was then assessed. Income this year was assessed at 81,467,200 as compared with 81,445,100in the former year. It must be remembered that this includes Dawson alone, and does not include a foot of ground that is at present gold producing.

Dawson has this year a total assessment of 814,102,440. The eity has increased surprisingly in private buildings. The government, recognizing the initiations of permanency and to assist in it and enable the better discharge of the duties of public offices, has created a fine post office, a courte-house, an administration building, and a school-house. All these buildings are splendid works, and would do credit to any city of a population of firty thousand. A new residence for the Commissioner of the Territory has also been built. The private enterprise displayed in Dawson has fully justified the government's action.

Dawson has now advanced to such an extent as to make it advisable to grant it a charter of incorporation and the management of its own municipal affairs. The citizens generally, I believe, approve of a scheme of incorporation, to which legislative effect will alkorly be given. The city will commence its corporate life well supplied

with good school-houses, thoroughly equipped and in excellent running order, with screets, not yet quite perfect, but still vasily unproved on whot was expected or breach for a year ago, with a fire department well supplied with method with a private water company supplying pure water, summer and witter, with a period of the numl persension of the houses with electric highting, and in fact with most of the numl pessessions of newly incorporated communities.

The Yukon conneil will be relieved of much purely local barinous by the error ian of the corporation, and being thus required to much less frequently, will be able to gramore time and attention to territorial matters of a more general elanavier. Hoth White Horse and Grand Forks are socking to obtain some control of local faffice, which will be granted either by bringing than under the Yukon ordinares relating to malaxier, portial towns, with a view to early incorporation, or by immediate incorporation. These two towns have shown considerable improvement and exhibit grant enterprise. In other places, too, improvements may be noted. On many of the creeks the nume owners are providing for themselves more permanent and evaluating requirers. Hote accommodation is improving, and at Gold Ran, Messes. Churce & Wills have created an hotel which would do no discredit to my town of five theorem dualitants. Stage lines run daily from Dawson to the principal creeks, and bring their inhabitants the advantages of letters, newspaces, for.:

Dawson has no need to be ashamed of its newspapers. There are three issued daily. Each has typesetting machinery; all occessionally print wood cuts, and indukes at times in elver and anusing entrons. They are well supplied with news, and conducted with enterprise, spirit and general good sense.

The climate of this country has indeed surprised me. I have not yet experienced a winter here, but an quite convinced from the sumerous experiences to which I have listened that much of the winter weather is bracing and most agreeable, and that trying, severe, cold weather is only for a brief period. Six months of this year I have experienced, and do not think a more charming climate can be found than has been enjoyed here for most of that time. The flowers of Dawson and the souther are simply superb. Many regetables grow to as great perfection as in any shelp part of Canada. Postness, enablage, cauliflower, turnips, lettuce, celery, &c., &c., have been produced this year of spleudid size and quality. Specimens were sout to the Victoria Exhibition.

I cannot conclude this report without reference to what is justly a source of constaut pride and satisfaction to all Canadians. I refer to the freedom of the Yukon Territory from crime, and particularly from crimes of a violent character. It is unirescally conceeded that in this respect it is unique manong mining cannys. By what causes has it been brought about that, in one of the richest mining cannys in the world, with a population drawn from all quarters of the world, and as any what are to be numbered as bold and daring spirits as exist on earth, a camp that at one time and another has been visited by the most desperate cruninals of the day, and where the richest prizes tempt to erime, there is yet as perfect confidence in the security of personal property as can be found in the oldest and most staid community of the east! Today, as for several years past, men travel the bonefiest traits, burblend themselves with poles of gold, or with horses and mules similarly burdened, without guard and without even being armed. This is no frame picture: this is no story of a single binknew; it is the usual daily occurrence during the whole time that gold is being cleaned up. Dawson and the other towns in the territory are not perfusp as strict un observance of religionrites as they should be, but at any hour of the day or night one is perfectly see re m any part of them.

The great cause that has produced this excellent condition is the sphericid work of the officers and men who have represented the Northwest Montiol Policie in this territory from the first. They enforced order with strong and just bands; they became a terror to evil-locers, and a strong defence to the haw-abiding and well dispersel. At first they were only a handful, but courage and firmness made up for lack of numbers.

6

DEPARTMENT OF THE INTERIOR

1-2 EDWARD VII., A. 1902

The rough and vicious element that too frequently dominates mining camps, particularly in their early stages, never gained control here. For a time the force supplied not only police protection to the people of the territory, but acted as arbitrators, assessors, judges and administrators, and gave satisfication in the excreise of every function. Numerous instances can be given where a private member of the force settled disputes involving thousands of dollars, and settle them finally, and with never an imputation on the disinterested impartiality of the decision. It is and will be, I believe, one of the product distinctions of the North-west Mounted Police force that it discharged with credit its manifold duties in all the various phases of the life of this community. It adapted itself with vigour and determination to what was practically a condition approaching martial law, and with grace and promptness handed over to the eivil power, as soon as the latter was ready to assume its exercise, these functionry assistances, the continued support of which it is lending its most efficient and satisfactory assistances.

I have the honur to be, sir, your obedient servant,

JAMES H. ROSS, Commissioner, Yukon Territory.

No. 1.

FINANCIAL STATEMENT of the Gold Commissioner's Office from July 1, 1900, to June 30, 1901.

CREDITS.

Dawson	Returns-		
	Free miner's certificates\$	76,257 00	
	Placer grants	59,170,00	
	Certificate of work-Placer	6,054 00	
	Certificate of partnership-Placer	524 00	
	Renewals-Placer.	48,405-00	
	Assignments-Placer	10,901 50	
	Registered documents Placer	6,194 25	
	Payment in lieu of assessment-Placer,	51'000 10	
	Payment in lieu of assessment with penaby	10,500 (0)	
	Abstracts	2,780 43	
	Water grant.	500.00	
	Relocations	44,287 00	
	Quartz mining grants	4,590.00	
	Quartz registered documents	7.19.00	
	Quartz registered do work	617 50	
	Quartz Crown grant	1,056-00	
	Quartz crown grant	82 50	
	Quartz payment in lieu of assessment	3,500.00	
	Hydraulics	3,552 31	
	Forfeited fces	12,479 50	
	Government auction sales	86,991 50	
	Government auction siles	3,685 76	
	Royalty.	40,249 79	
	Royalty. Infringement government fractions	1,049 45	
	Infringement government tractions	_50 (.)	
	Sale government reserve claims	60.00	
	Amended applications	086 750	
	Court fees		449,861 46
Stewa	rt River-		
	Placer certificate of work	12 00	
	Placer certificate of partnership	20.00	
	Free miner's certificates	1,919 00	
	Relocations	910.00	
	Placer mining grants	15,510.00	
	Quartz mining grants	210 00	
	Assignments.	242 00	
	Renewals	600-00	
	Placer registered documents	27 50	
	Quartz certificate of work	2 50	
	Quartz certificate of work		
	Quartz registered do differro		19,286 5

	COWARD	VII., A. 1902
Panker-		
Royalty	41.071.89	
Free miner's certificates		
ree miners certificates	5,216 00	
		46,887 53
Selkirk-		
Free miner's certificates.		
Quartz mining grants	375 00	
Registered documents	52 50	
Quartz certificate of partnership	2 50	
Quartz certificate of work	12 50	
		847 50
		011 00
Grand Forks-		
Free miner's certificates.	20,508 00	
Royalty.	392,326 86	
Inspection of work performed	30.00	
		412,864 86
Dominion-		
Royalty	57,414 26	
Free miner's certificates	7,219 00	
	8	64,633 26
•	φ	01,000 20
Forty-Mile—		
Frec miner's certificates.	3 740.00	
Placer mining grants	990-00	
Assignments	28 00	
Relocations	375 00	
Placer registered documents	80.00	
Renewals	30.00	
Quartz grants	10 00	
Placer certificate of work	4 00	
		2,257 00
	\$	2,204 00
Dalton Trail—		
A Description of the second seco		
Assiguments	4 00	
Renewals	45 00	
Free miner's certificates	30 00	
		79 00
White Horse-		
Free miner's certificates	2,600 00	
Quartz grants	750 00	
Assignments.	280 40	
Assignments.		
Quartz certificate of work	732 50	
Registered documents	72 75	
Payment in lieu of assessment	400 00	
Certificate of partnership	10 00	
Placer mining grants	60 00	
		4,905 65
	-φ	2,000 00
Gold Run-		
Free mincr's certificates \$	4.367 00	
Royalty.	35,814 22	
-		40,181 22

Hootalingua-

Placer mining grants \$	3,285 00
Assignments	132 00
Free miner's certificates	930-00
Placer certificate of partnership	24.00
Renewals	\$25.00
Placer registered documents	84 00
Certificate of work	196 00
Quartz grant	45 00
Royalty	504 85
Payment in lie 1 of assessment	400.00
Water grant	50 00
Relocations	15 00

Sulphur-

Free miner's certificance	29-7241 **
Coper Stewart River-	JL-20-00
Royalty	44.50

Dimis.

Receiver General	00
Sundries 23	27
Loss by assay 402	03
Loss by fire (Sulphar) 60	00
Loss by burglary (Grand Forks) 1,615	00
Fees paid in Ottawa 1.090	00
Placer certificate of work 2	00
Assignments	00
	00
Placer mining grants 15	00
Relocations	00
Payment in lieu of assessment 200	00
	21.03

-\$1,075,035 3D

J. LANGLOIS BELL, Assistant Gold Commission 9

REPORT OF THE COMPTROLLER.

No. 2.

Comptroller's Office, Dawson, Y.T., July 15, 1901.

Hon. J. H. Ross,

mmissioner, Dawson, Υ.Τ.

SIR,—I have the honour to report that the work of my office during the fiscal year ending June 30, 1901, consisted of the following services:—

The disbursements under letter of credit account, Department of the Interior, amounted to \$300,125.28. Monthly returns have been sent to the department with vouchers.

The accounts of all surveyors have been checked over and forwarded to the department.

Payments of royalty collected amounting to \$502,660.98 have been made to me which have been deposited to the credit of the Receiver General, and the gold dust account adjusted with the bank under tender.

The returns from the Gold Commissioner's and the Crown Timber and Land Agent's offices were sent to me as usual, carefully checked over, and forwarded to the department each month.

I have acted for the Department of Public Works, examining all accounts for contruction, maintenance, and repairs of public buildings, and countersigned cheques.

The sheriff's monthly returns have been made to me, checked, and the amounts deposited to the credit of the Receiver General, and statements sent to the Department of Justice.

The revenue and expenditure of the local government of the Yukon Territory have been received and disbursed through my office, and proper books and accounts kept, the revenue for the year being \$434,926.59, the expenditure \$412,931.45. Quarterly returns have been sent to the Auditor General with vouchers.

Eight wholesale liquor licenses were granted by the Commissioner of the Territory, in the month of June last, each holder of the same being allowed permits up to twelve thousand gallons. The following are the names of the firms to whom such licenses were issued .-The Northern Commercial Company, MacAulay Brothers, D. A. Ross & Company, Rosenthal & Company, North American Trading and Transportation Company, Lewin Brothers, T. O'Brien, and Low & Company.

All these firms imported into the territory the limit of liquor allowed under their respective permits, except Messrs. Lowe & Company, who only took in nine thousand uine bundred gallons.

All licenses under local ordinance, excepting liquor, have been issued from my office.

I have inspected the offices of the Department of the Interior as frequently as time would permit, and have reported to the department.

Your obedient servant,

J. T. LITHGOW,

Comptroller.

No. 3.

REPORT OF THE CROWN TIMBER AND LAND AGENT.

OFFICE OF THE CROWN TIMBER AND LAND AGENT DAWSON, Y.T., July 16, 1901.

Hon. J. H. Ross, Commissioner, Dawson, Y.T.

SHR_—In pursuance of your request, I have the honour to send you herewith a statement in duplicate showing the total amount of money received a this office, and at the various sub-agencies of White Horse, Fort Schlirk, Stewart and Forty-Mile during the twelve months commencing July 1, 1000, and ending June 30, 1001.

These receipts, as you are aware, are divided into two branches: the Crown Timber Branch, which ecomprises the revenue from bonuses for timber berths, royalty on operations of timber berths, Crown dues on house logs and cordwood, and seizure dues on cordwood and timber eut without authority, Crown dues any permits and on hay and grazing lands; and the Dominion Lands Branch, which comprises the revenue dirived from sale of Dominion lands, coal lands and town lots, also from leasing of Deminion lands and water from survey fees paid with applications telesse or purchase Dominion lands, and revenue from the sale of maps of survey, and from registration fees of assignments of unpetented Dominion lands.

The revenue received at this office and at the several sub-agencies for the y r. amounted as follows :--

1. From	Crown Timber Branch.			\$ 78,150 7	5
2. From	Dominion Lands Branch			63,430 6	5

\$141,621 37

The figures compared with the revenue received in the corresponding period of the year previous above an increase of 894,347.37 in the Crown Timber Branch, and a decrease of 84,214.59 in the Dominion Lands Branch. I must say, however, that there is at prsent, due, owing and payable, since the lat February last, the sum of 81,040 as second and last instalments on the purchase price of 1,040 acres of coal lands, which sum I expect to receive in a short time. I wish to remark that there is also due and owing nearly 85,000 for rental of water front privileges and water front lots, for the period ending April 20 last, which I expect to receive is a short time also.

I have thought it might interest you to know how much the sub-agencies have contributed to the total receipts, and to that end I furnish the following figures:--

1. From Crown Timber Branch 2. From Dominion Lands Branch	
Fort Selkirk Agency-	\$5,575 00
1. From Crown Timber Branch 2. From Dominion Lands Branch	

Stewart River Agency-	
1. From Crown Timber Branch	\$4,510 50
2. From Dominion Lands Branch	
(The agent has not been supplied with any forms of receipt for Dominion lands, as it is considered ad- visable that all payments for lease or purchase of Dominion lands within this agency should be made to have a collection of the state of	

Forty-Mile Agency-

This office was established only in February last, and the receipts reported up to June 30 last from

1. Crown Timber Branch are only \$245 00

(The agent has not yet been supplied with any form of receipt for Dominion lands, it being desirable that all payments for purchase or lease of Dominion lands in that agency be made to this office.)

Issu d from.	No.	Cords Wood.	Hous - Legs.
Dawson White Horse Port Selicit Stewart Porty Mile	377 117 111 78 9 692	41,507 10,318 10,784à 6,474 400 69,483à	Lineal feet. 20,010 6,726 26,736

TIMBER PERMITS.

HAY PERMITS.

Issued from.	No.	Tons.
Dawsor	110 10 13	790 383 90

ix

TOTAL RECEIPTS from Hay and Timber from June 30, 1900, to July 1, 1901.

Months.	Bonus. Royalty	Tunker Permits Secure Sandres	Hay Pereite () ===
1960,	8 cts. \$ cts	8 cts. 8 cts. 8 ct	8 1 8 1
July August September October November December	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{rrrrr} 1.725 & 00 & 8 & 126 & 12\\ 945 & 00 & 98, 96, 22\\ 500 & 00 & 9 & 574 & 0\\ 675 & 96, 142, 00 & 0\\ 10 & 00 & 96, 762 & 14\\ -1,900 & 07\\ \end{array}$
January February March April Jupe	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	492 00 4,915 2,815 T0 2,815 T0
Totals	9,375 00 14,127 91	38,7 (2.6) 11,052 4° 265 2.	1.07 42 1810 17

FOTAL RECEIPTS from sales of Dominion Lands from June 30, 1900, to July 1, 1901.

1900.		
July August September October. Norember.	3,165 6,875	44 71 85 00
1901.		
Jampary	2,772 8,547 9,539	45 86 31 65
Tetal	\$63,430	68

It will interest you also, no doubt, to know that applications for a total area of 37.7 gaugare miles of timber borths were granted during the wind period, and that the returnfrom the several licenses of said berths during the said period berger a light over 7,000, 000 feet B.M. of timber, representing a regular of 82 per M., or 841427-91

Your obedient servant,

F. X. GOSSELIN, Crown Timb r at 1 L = 1 4 and 13

No. 4.

REPORT OF THE REGISTRAR.

REGISTRAR'S OFFICE, DAWSON, Y.T., July 10, 1901.

Hon. J. H. Ross, Commissioner, Dawson, Y.T.

Sm,-In answer to the request contained in your letter dated 9th inst., I have the honour to make the following report on the work of the Registry Land Titles Office in Dawson, for the year ending June 30, 1901, compared with same of previous year:-

Month.	No. of Documents Recorded.	No of Cer- tificates of Title issued.	Fees Received.
1900.			
July	187	30	\$ 964 00
August	199	47	567 15
September.	251	61	739 00
October	181	38	525 86
November.	118	36	328 85
December	53	7	152 95
1901.			
January	67	6	165 80
February	82	24	205 70
March	103	20	272 85
April	136	38	408 65
May	220	63	$483 \ 05$
June	364	96	931 95
	1,961	466	\$ 5,745 81
1899-1900.			
July to June	1,134	31	2,460 65
Increase	827	435	\$ 3,285 16

Your obedient servant.

J. E. GIROUARD, Registrar,

No. 5.

REPORT OF THE DIRECTOR OF SURVEYS.

SURVEY OFFICE, DAWSON, Y.T., July 10, 190

Hon. J. H. Ross, Commissioner, Dawson, Y.J

Sm,-I have the honour to submit the annual report of this office for the year ending June 30, 1901, as follows :--

In the spring of last year the only surveyor employed, locally, was Mr. P. T. C. Dumais, Mr. Gibbon being at that time absent on leave; there were only two draughtsmen employed in connection with the survey work of the territory; these officials were all directly under the control of the Commissioner, and no attempt has been made to organize a distinct survey office. In June of last year 1 arrived in Dawson midder in structions from the Surveyor General to deal with the returns of all surveys to be used as a basis for the issue of patents, and to organize a system of record for such surveys. After my arrival here 1 also undertook, at the request of the Commissioner, the examination of the returns of hydraulic placer, and other surveys.

¹During the course of the year the necessity for an increased staff, and for a properly organized survey office for the territory has beeven apparent. To handle the surveys of the territory effectively and economically directly through the Surveyor General's office at Ottawa has proved to be a practical impossibility, first on account of the distance from Ottawa, and consequent delay in dealing with returns, and segondly on account of the necessity for a constant and close touch between the survey diffice and the Gold Commissioner's and other offices here.

This office as now established must necessarily be for some time of an experimental mature, and until we are movied into larger and more convenient quarters, it will no be able to fill the scope intended for it, but during the coming winter I tooks it will be possible to organize a thorough system of handling surveys and survey records in such a manner as to be of permanent value to the department and the general public alike. In this connection I would strongly urge that arrangements be made that, upon our moving into new quarters, all original records of surveys in other offices here, other of course than the lands titles office, should be transferred to the stry y like, outies are compilations being made as required for the other offices. It is constantly new sary in an office of this description to refer to the original records of previous surveys, and the searching of records by the public must be considerably fucilitated by having the advectors, and the other offices.

The staff of surveyors at present employed is as follows:-James Gibbon, D.L.S., who returned from Ottawa shortly before the close of navigation last year, and whi, during the winter made the survey, under instructions from the Count survey, of a base line on Henderson creek and its tributaries, and on part of Black Hills ercek. C W. MacPherson, D.L.S., who accompanied me from Ottawa, and was employed last summer on surveys on the Yukon river. During the fall he made a survey of the basline on part of Livingstone creek, and in the winter performed surveys on G ¹⁴ IR and other creeks. A. J. McPherson, D.L.S., who recently arrived from Ottawa. In addition to the above, two draughtsmen and a clerk are employed in the effect.

The work of the surveyors on the staff must during the present season largely consist of surveys of placer claims sold at the auction sales last year; in addition to these surveys several new creek base lines are urgently required. All roads finally located and built should be surveyed at as early a date as possible, and during next winter it will be advisable to undertake a traverse survey on parts of the Yukon, Klondike, and possibly Stewart rivers. This survey while partly of the nature of an exploratory survey would differ from an ordinary exploration in that permanent signal moments would be constructed at suitable points, and their relative position accurately determined. The necessity of such a signal system arises from the fact that owing to the nature of the country and to the isolated and scattered positions of the majority of the surveys, any attempt at a block township system is out of the question.

Besides the work of the surveyors on the staff, that of all the surveyors in private practice in the territory, of whom there are at present ten, is handled through this office. At present there is no manual of survey regulations specially issued for this territory. Thave prepared a rough draft of such a manual, and intend during the coming winter to submit it for approval. Its publication I consider to be most desirable, on account of the fact that the majority or the surveys to be made here differ entirely in character and in the conditions under which they have to be performed from surveys required of Dominion land surveyors in any other part of Canada, but these same rascus make it equally advisable that no manual should be issued hastily or until the effect of the requilations it enforces has been carefully studied out.

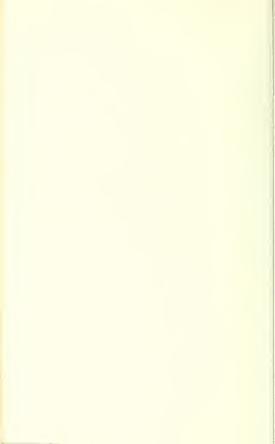
During the last year the returns of survey passing through my hands for examination have included:--Group lots, 118, including 15 mineral claims (quartz). Townsite subdivisions, 4. Hydraunile concessions, 32. Placer claims (for advertisement), 80.

There is every indication that the number of surveys to be dealt with during the coming year will largely exceed these figures.

Your obedient servant,

C. C. CHATAWAY, Director of Surveys, Y.T.







Publications COVETIM